

**CENG316**  
**FINAL TEST REPORT**

~

**GRADUATION MANAGEMENT SYSTEM**

*Spring 2025*



**Group 6**

- |           |                      |
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|                              |                               |
|------------------------------|-------------------------------|
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## 1. Use Cases

1. Login to the System
2. Initialize the System
3. Update the System
4. Advisor Approves Eligible Students
5. Add Outlier Student
6. View Certificates Page
7. Viewing Diplomas Page
8. View the Home Page – Student Affairs
9. View the Home Page – Advisor
10. View the Home Page – Faculty Secretariat
11. View the Home Page – Department Secretariat
12. View the Home Page – Student
13. Get Top Three Students – Faculty Level
14. Get Top Three Students – Department Level
15. Get Top Three Students – Student Affairs Level
16. Department Secretariat Approves Eligible Students
17. Faculty Secretariat Approves Eligible Students
18. Student Affairs Approves Eligible Students
19. Logout from the System

## 2. System Architecture

### IYTE Graduate Management System (GMS) - System Architecture

The IYTE Graduate Management System is a comprehensive web-based application designed to manage the graduation process for university students. The system follows a modern, scalable architecture pattern with clear separation of concerns and role-based access control.

#### Architecture Pattern: Full-Stack Web Application with MVC-like Structure

##### Frontend Architecture:

- **Framework:** Next.js 13.5.4 with App Router architecture
- **Component Structure:** Modular React components organized by feature domains
- **State Management:** React Context API for authentication and global state
- **Routing:** File-based routing with protected routes via middleware
- **UI Architecture:** Component-based design with reusable UI elements

##### Backend Architecture:

- **API Layer:** Next.js API routes providing RESTful endpoints
- **Database Layer:** PostgreSQL with Prisma ORM for type-safe database operations
- **Authentication:** Cookie-based session management with role-based access control
- **Middleware:** Custom authentication and authorization middleware

##### Database Architecture:

- **Database:** PostgreSQL (Neon) with relational schema design
- **ORM:** Prisma for database abstraction and type safety
- **Schema:** Hierarchical structure supporting Faculty → Department → Student relationships
- **Data Models:** 11 main entities with proper foreign key relationships and indexing

## System Components

### 1. Authentication & Authorization System

- Role-based access control (RBAC) with 6 distinct user roles
- JWT-like session management with secure cookie storage
- Protected route middleware for access control

### 2. User Management System

- Multi-role user system: Students, Advisors, Department Secretariats, Faculty Secretariats, Student Affairs, Admins
- Hierarchical permission structure

### 3. Graduation Workflow Management

- Multi-stage approval process with status tracking
- Workflow states: System → Advisor → Department → Faculty → Completed

### 4. Document Generation System

- PDF generation for certificates, diplomas, and transcripts
- Template-based document creation with Turkish character support

### 5. Data Integration Layer

- UBYS (University Information System) integration APIs
- External data synchronization capabilities

## Security Architecture

- Middleware-based route protection
- Role-based access control at both route and component levels
- Secure session management with HTTP-only cookies
- Input validation and sanitization

## Deployment Architecture

- Cloud-native deployment on Vercel platform
- PostgreSQL database hosted on Neon
- CDN integration for static assets
- Environment-based configuration management

## 3. Technologies Used Report

### Frontend Technologies

#### Core Framework & Runtime:

- **Next.js 13.5.4:** Chosen for its full-stack capabilities, server-side rendering, and excellent developer experience. The App Router provides modern routing patterns and improved performance.
- **React 18.2.0:** Provides component-based architecture for building interactive user interfaces with hooks and context for state management.
- **TypeScript 5.2.2:** Ensures type safety across the entire application, reducing runtime errors and improving developer productivity.

#### Styling & UI Framework:

- **Tailwind CSS 3.3.3:** Utility-first CSS framework for rapid UI development and consistent design system implementation.
- **Material-UI (MUI) 7.1.0:** Professional React component library providing pre-built, accessible components for tables, forms, and navigation elements.

- **Emotion:** CSS-in-JS library used by Material-UI for dynamic styling and theming.

### Icons & Visual Elements:

- **Lucide React 0.511.0:** Modern icon library providing consistent, customizable SVG icons throughout the application.

### User Experience:

- **React Hot Toast 2.5.2:** Elegant toast notification system for user feedback and status updates.

## Backend Technologies

### Database & ORM:

- **PostgreSQL (Neon):** Robust relational database chosen for its ACID compliance, complex query support, and scalability. Neon provides serverless PostgreSQL with automatic scaling.

- **Prisma 5.4.1:** Modern ORM providing type-safe database access, automatic migrations, and excellent developer experience with schema introspection.

### API & Server:

- **Next.js API Routes:** Serverless functions providing RESTful API endpoints with automatic optimization and deployment.

- **Node.js Runtime:** JavaScript runtime for server-side execution with excellent ecosystem support.

## Document Generation

### PDF Libraries:

- **jsPDF 3.0.1:** Client-side PDF generation for certificates and diplomas with custom formatting and Turkish character support.

- **PDF-lib 1.17.1:** Advanced PDF manipulation library for complex document operations and form filling.

## Development & Build Tools

### Package Management:

- **pnpm:** Fast, disk space efficient package manager with strict dependency resolution.

### Code Quality:

- **ESLint 8.51.0:** JavaScript/TypeScript linting for code quality and consistency.

- **ESLint Config Next:** Next.js specific linting rules and best practices.

### Build & Compilation:

- **PostCSS 8.4.31:** CSS processing tool for Tailwind CSS compilation and optimization.

- **Autoprefixer 10.4.16:** Automatic vendor prefix addition for cross-browser compatibility.

- **ts-node 10.9.1:** TypeScript execution environment for development and build scripts.

## Utility Libraries

### Time & Date:

- **ms 2.1.3:** Millisecond conversion utility for time-based operations and session management.

## Why These Technologies Were Chosen

### Next.js Selection Rationale:

- Full-stack capabilities eliminate need for separate backend framework

- Excellent performance with automatic code splitting and optimization

- Built-in API routes reduce complexity

- Strong TypeScript integration
- Vercel deployment optimization

### **PostgreSQL + Prisma Choice:**

- Complex relational data requirements (Faculty → Department → Student hierarchy)
- ACID compliance for graduation status tracking
- Prisma provides type safety and excellent developer experience
- Automatic migration generation and database introspection

### **Material-UI Integration:**

- Professional, accessible components out-of-the-box
- Consistent design system
- Extensive table components perfect for data-heavy application
- Good TypeScript support

### **Tailwind CSS Benefits:**

- Rapid prototyping and development
- Consistent design tokens
- Small bundle size with purging
- Excellent integration with Next.js

### **PDF Generation Libraries:**

- jsPDF for simple, template-based document generation
- PDF-lib for advanced document manipulation
- Client-side generation reduces server load
- Turkish character support essential for Turkish university system

### Security Considerations:

- Cookie-based authentication for better security than local storage
- Middleware-based route protection
- Role-based access control implementation
- Environment variable management for sensitive data

This technology stack provides a modern, scalable, and maintainable solution for the complex requirements of a university graduation management system, with particular attention to the Turkish educational context and multi-role user management needs.

### 4. Work Breakdown by Each Group Member

| Member  | Role   |
|---|--|
| Yusuf Celal Zeybek, Hamza Uyar, Dođukan Topçu                       | Database schema design   |
| Yusuf Celal Zeybek, Dođukan Topçu                                   | Database deployment (Neon) and Application deployment (Vercel) |
| Hamza Uyar, Dođukan Topçu, Yusuf Celal Zeybek                       | Prisma migration & query implementation                        |
| Berkhan Kargılı, Abdalbaki Çeltik, Dođukan Topçu                    | Next.js frontend UI  |
| Abdalbaki Çeltik, Yusuf Celal Zeybek                                | Next.js frontend middleware                                    |
| Hamza Uyar, Abdalbaki Çeltik, Berkhan Kargılı, Dođukan Topçu        | Backend API routes   |
| Hamza Uyar, Dođukan Topçu   | UBYS Simulation  |
| Mete Akın Akdođan, Zeynep Rüzgar, Berkhan Kargılı, Ođuzhan Yıldırım | Test case design & documentation                               |
| Berkhan Kargılı, Mete Akın Akdođan, Zeynep Rüzgar, Ođuzhan Yıldırım | Use case documentation & test reporting                        |

## 5. Test Cases:

### 1) Login to the System

This section covers test scenarios for the login functionality.

#### Test Scenario 1: Successful Login

This scenario tests the successful login flow for different user types.

Project Name: Graduation Management System (GMS)

#### Test Case 1.1

|                       |  |                |  |
|-----------------------|--|----------------|--|
| Test Scenario ID      | LOGIN  | Test Case ID   | LOGIN-01                                     |
| Test Case Description | Successful Login – Student Affairs   | Test Priority  | High   |
| Pre-Requisite         | 1. User is on the application login page.<br>2. A valid Student user account exists in UBYS.<br>3. The corresponding student is marked as valid and authorized within the application. | Post-Requisite | User is redirected to the Student Dashboard. |
| Designed-by           | Yusuf Celal Zeybek   | Executed-by    |  |
| Design date           | 15.04.2025   | Execution date |  |

#### Test Execution Steps:

| S.No | Action                                       | Inputs   | Expected Output   | Actual Output | Test Environment | Test Result | Test Comments |
|------|--|--|---|---------------|------------------|-------------|---------------|
| 1    | Navigate to the login page.                  | <a href="https://iyte-gms.vercel.app">https://iyte-gms.vercel.app</a>  | UBYS Login Form is displayed.                             |               |                  |             |               |
| 2    | Enter valid student credentials and submits. | User email: <a href="mailto:studentaffairs@iyte.edu.tr">studentaffairs@iyte.edu.tr</a><br>Password: password_admin | Student affairs dashboard with the success message "Login |               |                  |             |               |

|  |  |  |               |  |  |  |  |
|--|--|--|---------------|--|--|--|--|
|  |  |  | Successful.”. |  |  |  |  |
|--|--|--|---------------|--|--|--|--|

### Test Case 1.2

|                       |  |                |  |
|-----------------------|--|----------------|--|
| Test Scenario ID      | LOGIN  | Test Case ID   | LOGIN-02                                     |
| Test Case Description | Successful Login – Advisor   | Test Priority  | High   |
| Pre-Requisite         | 1. User is on the application login page.<br>2. A valid Student user account exists in UBYS.<br>3. The corresponding student is marked as valid and authorized within the application. | Post-Requisite | User is redirected to the Student Dashboard. |
| Designed-by           | Yusuf Celal Zeybek   | Executed-by    |  |
| Design date           | 15.04.2025   | Execution date |  |

### Test Execution Steps:

| S.No | Action                                       | Inputs  | Expected Output   | Actual Output | Test Environment | Test Result | Test Comments |
|------|--|---|---|---------------|------------------|-------------|---------------|
| 1    | Navigate to the login page.                  | https://iyte-gms.vercel.app   | UBYS Login Form is displayed.                                   |               |                  |             |               |
| 2    | Enter valid student credentials and submits. | User email: buketoksuzoglu@iyte.edu.tr<br>Password: password_advisor_16 | Advisor Dashboard with the success message “Login Successful.”. |               |                  |             |               |

### Test Case 1.3

|                  |       |              |          |
|------------------|-------|--------------|----------|
| Test Scenario ID | LOGIN | Test Case ID | LOGIN-03 |
|------------------|-------|--------------|----------|

|                       |  |                |  |
|-----------------------|--|----------------|--|
| Test Case Description | Successful Login – Department Secretariat  | Test Priority  | High   |
| Pre-Requisite         | 1. User is on the application login page.<br>2. A valid Student user account exists in UBYS.<br>3. The corresponding student is marked as valid and authorized within the application. | Post-Requisite | User is redirected to the Student Dashboard. |
| Designed-by           | Yusuf Celal Zeybek   | Executed-by    |  |
| Design date           | 15.04.2025   | Execution date |  |

Test Execution Steps:

| S.No | Action                                       | Inputs   | Expected Output   | Actual Output | Test Environment | Test Result | Test Comments |
|------|--|--|---|---------------|------------------|-------------|---------------|
| 1    | Navigate to the login page.                  | https://iyte-gms.vercel.app  | UBYS Login Form is displayed.   |               |                  |             |               |
| 2    | Enter valid student credentials and submits. | User email: zeynep.erdem@iyte.edu.tr<br><br>Password: ceng_secretary | Department secretariat dashboard with the success message "Login Successful". |               |                  |             |               |

**Test Case 1.4**

|                       |  |               |          |
|-----------------------|--|---------------|----------|
| Test Scenario ID      | LOGIN                                  | Test Case ID  | LOGIN-04 |
| Test Case Description | Successful Login – Faculty Secretariat | Test Priority | High     |

|               |  |                |  |
|---------------|--|----------------|--|
| Pre-Requisite | 1. User is on the application login page.<br>2. A valid Student user account exists in UBYS.<br>3. The corresponding student is marked as valid and authorized within the application. | Post-Requisite | User is redirected to the Student Dashboard. |
| Designed-by   | Yusuf Celal Zeybek   | Executed-by    |  |
| Design date   | 15.04.2025   | Execution date |  |

#### Test Execution Steps:

| S.No | Action                                       | Inputs   | Expected Output  | Actual Output | Test Environment | Test Result | Test Comments |
|------|--|--|--|---------------|------------------|-------------|---------------|
| 1    | Navigate to the login page.                  | https://iyte-gms.vercel.app  | UBYS Login Form is displayed.  |               |                  |             |               |
| 2    | Enter valid student credentials and submits. | User email: engineering.secretariat@iyte.edu.tr<br><br>Password: password_facsec_2 | Faculty secretariat dashboard with the success message "Login Successful". |               |                  |             |               |

#### Test Case 1.5

|                       |   |                |  |
|-----------------------|---|----------------|--|
| Test Scenario ID      | LOGIN   | Test Case ID   | LOGIN-05                                     |
| Test Case Description | Successful Login – Student                                      | Test Priority  | High   |
| Pre-Requisite         | 1. User is on the application login page.<br>2. A valid Student | Post-Requisite | User is redirected to the Student Dashboard. |

|             |  |                |  |
|-------------|--|----------------|--|
|             | user account exists in UBYS.<br>3. The corresponding student is marked as valid and authorized within the application. |                |  |
| Designed-by | Yusuf Celal Zeybek   | Executed-by    |  |
| Design date | 15.04.2025   | Execution date |  |

#### Test Execution Steps:

| S.No | Action                                       | Inputs   | Expected Output  | Actual Output | Test Environment | Test Result | Test Comments |
|------|--|--|--|---------------|------------------|-------------|---------------|
| 1    | Navigate to the login page.                  | https://iyte-gms.vercel.app                                  | UBYS Login Form is displayed.                                  |               |                  |             |               |
| 2    | Enter valid student credentials and submits. | User email: meteakdogan@std.iyte.edu.tr<br><br>Password: 123 | Student dashboard with the success message "Login Successful". |               |                  |             |               |

#### Test Scenario 2: Unsuccessful Login

This scenario tests the unsuccessful login flow.

Project Name: Graduation Management System (GMS)

#### Test Case 2.1

|                       |  |               |          |
|-----------------------|--|---------------|----------|
| Test Scenario ID      | LOGIN  | Test Case ID  | LOGIN-03 |
| Test Case Description | This occurs when an attempt is made to log in with an e-mail or password that is | Test Priority | High     |

|               |   |                |                            |
|---------------|---|----------------|----------------------------|
|               | not registered in the ubys database.      |                |                            |
| Pre-Requisite | 1. User is on the application login page. | Post-Requisite | User is on the login page. |
| Designed-by   | Yusuf Celal Zeybek                        | Executed-by    |                            |
| Design date   | 27.04.2025                                | Execution date |                            |

Test Execution Steps:

| S.No | Action  | Inputs   | Expected Output                                       | Actual Output | Test Environment | Test Result | Test Comments |
|------|---|--|---|---------------|------------------|-------------|---------------|
| 1    | Navigate to the login page.                   | <a href="https://iyte-gms.vercel.app">https://iyte-gms.vercel.app</a>                    | UBYS Login Form is displayed.                         |               |                  |             |               |
| 2    | Enter invalid student credentials and submits | Email: <a href="mailto:test@iyte.edu.tr">test@iyte.edu.tr</a><br>Password: test_password | "Invalid email or password."<br>message is displayed. |               |                  |             |               |

**Test Case 2.2**

|                       |   |                |                            |
|-----------------------|---|----------------|----------------------------|
| Test Scenario ID      | LOGIN   | Test Case ID   | LOGIN-04                   |
| Test Case Description | Error occurs when user that has not permission to login to the system | Test Priority  | High                       |
| Pre-Requisite         | 1.Student initialization process in the system has not started yet.   | Post-Requisite | User is on the login page. |
| Designed-by           | Yusuf Celal Zeybek  | Executed-by    |                            |
| Design date           | 27.04.2025  | Execution date |                            |

Test Execution Steps:

| S.No | Action          | Inputs  | Expected Output | Actual Output | Test Environment | Test Result | Test Comments |
|------|-----------------|---|-----------------|---------------|------------------|-------------|---------------|
| 1    | Navigate to the | <a href="https://iyte-gms.vercel.app">https://iyte-gms.vercel.app</a> | UBYS Login      |               |                  |             |               |

|   |  |  |   |  |  |  |  |
|---|--|--|---|--|--|--|--|
|   | login page.                            |  | Form is displayed.  |  |  |  |  |
| 2 | Enter invalid credentials and submits. | Email: onurdemirors@iyte.edu.tr<br>Password: password_advisor_18 | "User have not permission to access this system." message is displayed. |  |  |  |  |

### Test Case 2.3

|                       |   |                |                            |
|-----------------------|---|----------------|----------------------------|
| Test Scenario ID      | LOGIN   | Test Case ID   | LOGIN-05                   |
| Test Case Description | Outlier students trying to login to the system. | Test Priority  | High                       |
| Pre-Requisite         | 1. User is on the application login page.       | Post-Requisite | User is on the login page. |
| Designed-by           | Yusuf Celal Zeybek                              | Executed-by    |                            |
| Design date           | 27.04.2025                                      | Execution date |                            |

### Test Execution Steps:

| S.No | Action  | Inputs  | Expected Output  | Actual Output | Test Environment | Test Result | Test Comments |
|------|---|---|--|---------------|------------------|-------------|---------------|
| 1    | Navigate to the login page.                           | <a href="https://iyte-gms.vercel.app">https://iyte-gms.vercel.app</a> | UBYS Login Form is displayed.  |               |                  |             |               |
| 2    | Enter invalid academic staff credentials and submits. | Email: dogukantopcu@std.iyte.edu.tr<br>Password: 123                  | "User have not permission to access this system." and "Please consult your |               |                  |             |               |

|  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
|  |  |  | advisor for access to this system" messages are displayed. |  |  |  |  |
|--|--|--|--|--|--|--|--|

## 2) Initialize the System

This section covers test scenarios for initializing the data of the Graduation Management System (GMS).

### Test Scenario 1: Successful Initialization

This scenario tests the successful initialization of the Graduation Management System (GMS)

#### Test Case 1.1

|                       |   |                |   |
|-----------------------|---|----------------|---|
| Test Scenario ID      | INITIALIZE  | Test Case ID   | INITIALIZE-01   |
| Test Case Description | Successful Fetching the Faculties and Departments   | Test Priority  | Very High   |
| Pre-Requisite         | 1. Student Affair is logged in.<br>2. There are Faculties and Departments in the UBYS API that can be fetched | Post-Requisite | Faculties and Departments are successfully initialized. |
| Designed-by           | Mete Akin Akdoğan   | Executed-by    |   |
| Design date           | 23.05.2025  | Execution date |   |

Test Execution Steps:

| S.No | Action                      | Inputs                     | Expected Output                 | Actual Output | Test Environment | Test Result | Test Comments |
|------|-----------------------------|----------------------------|---------------------------------|---------------|------------------|-------------|---------------|
| 1    | Click to "System Management | "System Management" button | Empty Faculties and Departments |               |                  |             |               |

|   |                                |                      |   |  |  |  |  |
|---|--------------------------------|----------------------|---|--|--|--|--|
|   | " button in sidebar.           |                      | tables are displayed  |  |  |  |  |
| 2 | Click the "Fetch Data" button. | "Fetch Data" button. | Empty tables are inserted with the data fetched from the UBYS API |  |  |  |  |

### Test Case 1.2

|                       |  |                  |  |
|-----------------------|--|------------------|--|
| Test Scenario ID      | INITIALIZE   | Test Case ID     | INITIALIZE-01                              |
| Test Case Description | Successful Fetching the Secretariats   | Test Priority    | Very High                                  |
| Pre-Requirement       | 1. Administrator is logged in.<br>2. Faculties and Departments are successfully fetched<br>3- There are Secretariats in the UBYS API that can be fetched | Post-Requirement | Secretariats are successfully initialized. |
| Designed-by           | Mete Akin Akdoğan  | Executed-by      |  |
| Design date           | 23.05.2025   | Execution date   |  |

### Test Execution Steps:

| S.No | Action  | Inputs                     | Expected Output                                | Actual Output | Test Environment | Test Result | Test Comments |
|------|---|----------------------------|--|---------------|------------------|-------------|---------------|
| 1    | Click to "System Management" button in sidebar. | "System Management" button | Faculties and Departments tables are displayed |               |                  |             |               |
| 2    | Click the "Next Step" button.                   | "Next Step" button.        | Empty Secretariats tables are displayed        |               |                  |             |               |
| 3    | Click the "Fetch Data" button.                  | "Fetch Data" button.       | Empty tables are inserted                      |               |                  |             |               |

|  |                  |  |   |  |  |  |  |
|--|------------------|--|---|--|--|--|--|
|  | Data”<br>button. |  | with the<br>data<br>fetched<br>from the<br>UBYS API |  |  |  |  |
|--|------------------|--|---|--|--|--|--|

### Test Case 1.3

|                       |   |                |  |
|-----------------------|---|----------------|--|
| Test Scenario ID      | INITIALIZE  | Test Case ID   | INITIALIZE-01                          |
| Test Case Description | Successful Fetching the Advisors  | Test Priority  | Very High                              |
| Pre-Requisite         | 1. Administrator is logged in.<br>2. Secretariats are successfully fetched<br>3- There are Advisors in the UBYS API that can be fetched | Post-Requisite | Advisors are successfully initialized. |
| Designed-by           | Mete Akin Akdoğan   | Executed-by    |  |
| Design date           | 23.05.2025  | Execution date |  |

### Test Execution Steps:

| S.No | Action  | Inputs                     | Expected Output                                | Actual Output | Test Environment | Test Result | Test Comments |
|------|---|----------------------------|--|---------------|------------------|-------------|---------------|
| 1    | Click to “System Management” button in sidebar. | “System Management” button | Faculties and Departments tables are displayed |               |                  |             |               |
| 2    | Click the “Next Step” button.                   | “Next Step” button.        | Secretariats tables are displayed              |               |                  |             |               |
| 3    | Click the “Next Step” button.                   | “Next Step” button.        | Empty Advisors table is displayed              |               |                  |             |               |

|   |                                |                      |   |  |  |  |  |
|---|--------------------------------|----------------------|---|--|--|--|--|
| 4 | Click the "Fetch Data" button. | "Fetch Data" button. | Empty tables are inserted with the data fetched from the UBYS API |  |  |  |  |
|---|--------------------------------|----------------------|---|--|--|--|--|

#### Test Case 1.4

|                       |   |                |  |
|-----------------------|---|----------------|--|
| Test Scenario ID      | INITIALIZE  | Test Case ID   | INITIALIZE-01                          |
| Test Case Description | Successful Fetching the Students  | Test Priority  | Very High                              |
| Pre-Requisite         | 1. Administrator is logged in.<br>2. Advisors are successfully fetched<br>3- There are Students in the UBYS API that can be fetched | Post-Requisite | Students are successfully initialized. |
| Designed-by           | Mete Akin Akdoğan   | Executed-by    |  |
| Design date           | 23.05.2025  | Execution date |  |

#### Test Execution Steps:

| S.No | Action  | Inputs                     | Expected Output                                | Actual Output | Test Environment | Test Result | Test Comments |
|------|---|----------------------------|--|---------------|------------------|-------------|---------------|
| 1    | Click to "System Management" button in sidebar. | "System Management" button | Faculties and Departments tables are displayed |               |                  |             |               |
| 2    | Click the "Next Step" button.                   | "Next Step" button.        | Secretariat table is displayed                 |               |                  |             |               |

|   |                                |                      |   |  |  |  |  |
|---|--------------------------------|----------------------|---|--|--|--|--|
| 3 | Click the "Next Step" button.  | "Next Step" button.  | Advisors table is displayed                                       |  |  |  |  |
| 4 | Click the "Next Step" button.  | "Next Step" button.  | Empty Students table is displayed                                 |  |  |  |  |
| 5 | Click the "Fetch Data" button. | "Fetch Data" button. | Empty tables are inserted with the data fetched from the UBYS API |  |  |  |  |

#### Test Scenario 2: No Students to Fetch

This scenario tests when there are no students to fetch and push into Graduation Management System (GMS)

##### Test Case 2.1

|                       |  |                |  |
|-----------------------|--|----------------|--|
| Test Scenario ID      | INITIALIZE   | Test Case ID   | INITIALIZE-02  |
| Test Case Description | No Eligible Students for Initialization  | Test Priority  | Very High  |
| Pre-Requisite         | 1. Administrator is logged in.<br>2. Advisors are successfully fetched<br>3- There are no Students in the UBYS API that can be fetched | Post-Requisite | 1-No students are fetched<br><br>2-Student tables remain empty |
| Designed-by           | Mete Akın Akdoğan  | Executed-by    |  |
| Design date           | 23.05.2025   | Execution date |  |

#### Test Execution Steps:

| S.No | Action | Inputs | Expected Output | Actual Output | Test Environment | Test Result | Test Comments |
|------|--------|--------|-----------------|---------------|------------------|-------------|---------------|
|------|--------|--------|-----------------|---------------|------------------|-------------|---------------|

|   |   |                            |  |  |  |  |  |
|---|---|----------------------------|--|--|--|--|--|
| 1 | Click to "System Management" button in sidebar. | "System Management" button | Faculties and Departments Dashboard is displayed |  |  |  |  |
| 2 | Click the "Next Step" button.                   | "Next Step" button.        | Secretariats Dashboard is displayed              |  |  |  |  |
| 3 | Click the "Next Step" button.                   | "Next Step" button.        | Advisors Dashboard is displayed                  |  |  |  |  |
| 4 | Click the "Next Step" button.                   | "Next Step" button.        | Empty Students Dashboard is displayed            |  |  |  |  |
| 5 | Click the "Fetch Data" button.                  | "Fetch Data" button.       | Empty table is displayed                         |  |  |  |  |

### 3) Update the System

This section covers test scenarios for updating the data of the Graduation Management System (GMS).

#### Test Scenario 1: Update the Data

This scenario tests the successful updating data of the Graduation Management System (GMS)

##### Test Case 1.1

|                       |  |                |   |
|-----------------------|--|----------------|---|
| Test Scenario ID      | UPDATE   | Test Case ID   | UPDATE-01   |
| Test Case Description | Successful Updating the Faculties and Departments            | Test Priority  | Very High   |
| Pre-Requisite         | 1. Administrator is logged in.<br>2. There are Faculties and | Post-Requisite | Faculties and Departments are successfully updated. |

|             |   |                |  |
|-------------|---|----------------|--|
|             | Departments in the UBYS API that can be update. |                |  |
| Designed-by | Mete Akin Akdoğan                               | Executed-by    |  |
| Design date | 23.05.2025                                      | Execution date |  |

#### Test Execution Steps:

| S.No | Action  | Inputs                     | Expected Output  | Actual Output | Test Environment | Test Result | Test Comments |
|------|---|----------------------------|--|---------------|------------------|-------------|---------------|
| 1    | Click to "System Management" button in sidebar. | "System Management" button | Empty Faculties and Departments Dashboard is displayed |               |                  |             |               |
| 2    | Click the "Update Data" button.                 | "Update Data" button.      | Data updated from the UBYS API                         |               |                  |             |               |

#### Test Case 1.2

|                       |  |                |  |
|-----------------------|--|----------------|--|
| Test Scenario ID      | UPDATE   | Test Case ID   | UPDATE -01                             |
| Test Case Description | Successful Updating the Secretariats   | Test Priority  | Very High                              |
| Pre-Requisite         | 1. Administrator is logged in.<br>2. Faculties and Departments are successfully updated<br>3- There are Secretariats in the UBYS API that can be updated | Post-Requisite | Secretariats are successfully updated. |
| Designed-by           | Mete Akin Akdoğan  | Executed-by    |  |
| Design date           | 23.05.2025   | Execution date |  |

Test Execution Steps:

| S.No | Action  | Inputs                     | Expected Output                                  | Actual Output | Test Environment | Test Result | Test Comments |
|------|---|----------------------------|--|---------------|------------------|-------------|---------------|
| 1    | Click to "System Management" button in sidebar. | "System Management" button | Faculties and Departments Dashboard is displayed |               |                  |             |               |
| 2    | Click the "Next Step" button.                   | "Next Step" button.        | Empty Secretariats Dashboard is displayed        |               |                  |             |               |
| 3    | Click the "Update Data" button.                 | "Update Data" button.      | Data updated from the UBYS API                   |               |                  |             |               |

**Test Case 1.3**

|                       |  |                  |                                    |
|-----------------------|--|------------------|------------------------------------|
| Test Scenario ID      | UPDATE   | Test Case ID     | UPDATE -01                         |
| Test Case Description | Successful Updating the Advisors   | Test Priority    | Very High                          |
| Pre-Requirement       | 1. Administrator is logged in.<br>2. Secretariats are successfully updated.<br>3- There are Advisors in the UBYS API that can be updated | Post-Requirement | Advisors are successfully updated. |
| Designed-by           | Mete Akın Akdoğan  | Executed-by      |                                    |
| Design date           | 23.05.2025   | Execution date   |                                    |

Test Execution Steps:

| S.No | Action  | Inputs                     | Expected Output                                  | Actual Output | Test Environment | Test Result | Test Comments |
|------|---|----------------------------|--|---------------|------------------|-------------|---------------|
| 1    | Click to "System Management" button in sidebar. | "System Management" button | Faculties and Departments Dashboard is displayed |               |                  |             |               |
| 2    | Click the "Next Step" button.                   | "Next Step" button.        | Secretariat's Dashboard is displayed             |               |                  |             |               |
| 3    | Click the "Next Step" button.                   | "Next Step" button.        | Empty Advisors Dashboard is displayed            |               |                  |             |               |
| 4    | Click the "Update Data" button.                 | "Update Data" button.      | Data updated from the UBYS API                   |               |                  |             |               |

#### Test Case 1.4

|                       |   |                |                                    |
|-----------------------|---|----------------|------------------------------------|
| Test Scenario ID      | UPDATE  | Test Case ID   | UPDATE-01                          |
| Test Case Description | Successful Updating the Students  | Test Priority  | Very High                          |
| Pre-Requisite         | 1. Administrator is logged in.<br>2. Advisors are successfully updated<br>3- There are Students in the UBYS API that can be updated | Post-Requisite | Students are successfully updated. |
| Designed-by           | Mete Akin Akdoğan   | Executed-by    |                                    |
| Design date           | 23.05.2025  | Execution date |                                    |

Test Execution Steps:

| S.No | Action  | Inputs                     | Expected Output                                  | Actual Output | Test Environment | Test Result | Test Comments |
|------|---|----------------------------|--|---------------|------------------|-------------|---------------|
| 1    | Click to "System Management" button in sidebar. | "System Management" button | Faculties and Departments Dashboard is displayed |               |                  |             |               |
| 2    | Click the "Next Step" button.                   | "Next Step" button.        | Secretariats Dashboard is displayed              |               |                  |             |               |
| 3    | Click the "Next Step" button.                   | "Next Step" button.        | Advisors Dashboard is displayed                  |               |                  |             |               |
| 4    | Click the "Next Step" button.                   | "Next Step" button.        | Empty Students Dashboard is displayed            |               |                  |             |               |
| 5    | Click the "Update Data" button.                 | "Update Data" button.      | Data updated from the UBYS API                   |               |                  |             |               |

#### 4) Advisor Approves Eligible Students

This section covers test scenarios for advisors approving eligible students in the Graduation Management System (GMS).

### Test Scenario 1: Advisor Checks Eligible Students

This scenario tests the retrieval and display of eligible students for an advisor.

Project Name: Graduation Management System (GMS)

#### Test Case 1.1

|                       |  |                |   |
|-----------------------|--|----------------|---|
| Test Scenario ID      | ADVISOR-APPROVE  | Test Case ID   | ADVISOR-APPROVE-01  |
| Test Case Description | Advisor Successfully Views Eligible Students   | Test Priority  | High  |
| Pre-Requisite         | 1. Advisor is logged in.<br>2. Eligible students have been initialized in the system.<br>3. The advisor has students assigned to them. | Post-Requisite | Advisor can check a list of eligible students assigned to them. |
| Designed-by           | Oğuzhan Yıldırım   | Executed-by    |   |
| Design date           | 24.05.2025   | Execution date |   |

#### Test Execution Steps:

| S.No | Action   | Inputs                      | Expected Output   | Actual Output | Test Environment | Test Result | Test Comments |
|------|--|-----------------------------|---|---------------|------------------|-------------|---------------|
| 1    | Click to the "Graduation Approve" button in sidebar. | "Graduation Approve" button | "Student Graduation Approval List" dashboard is displayed |               |                  |             |               |
|      | Click to the "Transcript" button in sidebar.         | "Transcript" button         | Transcript is displayed for selected student              |               |                  |             |               |
|      | Click to the "Go Back" button in sidebar.            | "Go Back" button            | Previously listed students are displayed                  |               |                  |             |               |

|   |   |                           |  |  |  |  |  |
|---|---|---------------------------|--|--|--|--|--|
| 2 | Click to the check buttons next to students | Check button              | Button marked with a blue tick and "Approve Selected" button activated.          |  |  |  |  |
| 3 | Click to the "Approve Selected" button      | "Approve Selected" button | The selected student approved and removed from Student Graduation Approval List. |  |  |  |  |

### Test Scenario 2: Advisor Approves Multiple Students

This scenario tests the bulk approval of multiple eligible students by an advisor.

Project Name: Graduation Management System (GMS)

#### Test Case 2.1

|                       |   |                |   |
|-----------------------|---|----------------|---|
| Test Scenario ID      | ADVISOR-APPROVE   | Test Case ID   | ADVISOR-APPROVE-02  |
| Test Case Description | Advisor Successfully Approves Multiple Students   | Test Priority  | High  |
| Pre-Requisite         | 1. Advisor is logged in.<br>2. Multiple eligible students are displayed in the approval list.<br>3. The advisor has permission to approve these students. | Post-Requisite | Multiple students are successfully approved for graduation. |
| Designed-by           | Berkhan Kargılı   | Executed-by    |   |
| Design date           | 25.05.2025  | Execution date |   |

Test Execution Steps:

| S.No | Action  | Inputs                       | Expected Output  | Actual Output | Test Environment | Test Result | Test Comments |
|------|---|------------------------------|--|---------------|------------------|-------------|---------------|
| 1    | Click to the "Graduation Approval" button in sidebar. | "Graduation Approval" button | "Student Graduation Approval List"<br><br>dashboard is displayed   |               |                  |             |               |
| 2    | Click the button that selects all students            | Select all students button   | All students are selected in the list.   |               |                  |             |               |
| 3    | Click the "Approve Selected" button.                  | "Approve Selected" button    | All students approved, removed from Approval List and "No students requiring advisor approval found." message displayed. |               |                  |             |               |

## 5) Add Outlier Student

This section covers test scenarios for adding outlier students in the Graduation Management System (GMS).

### Test Scenario 1: Advisor Adds Outlier Student Successfully

This scenario tests the successful addition of an outlier student by an advisor.

Project Name: Graduation Management System (GMS)

#### Test Case 1.1

|                       |   |                |  |
|-----------------------|---|----------------|--|
| Test Scenario ID      | OUTLIER-ADD   | Test Case ID   | OUTLIER-ADD-01   |
| Test Case Description | Advisor successfully adds an outlier student to the graduation process.                                 | Test Priority  | High   |
| Pre-Requisite         | 1. Advisor is logged in.<br>2. Student exists in the system but is not included in the graduation list. | Post-Requisite | Outlier student is successfully added to the graduation process. |
| Designed-by           | Zeynep Rüzgar   | Executed-by    |  |
| Design date           | 24.05.2025  | Execution date |  |

Test Execution Steps:

| S.No | Action  | Inputs                       | Expected Output                               | Actual Output | Test Environment | Test Result | Test Comments |
|------|---|------------------------------|---|---------------|------------------|-------------|---------------|
| 1    | Click "Add Outlier Student" button              | "Add Outlier Student" button | "Add Outlier Student" dashboard is displayed. |               |                  |             |               |
| 2    | Enter student ID                                | Valid Student ID: 290201150  | Matching student records are listed.          |               |                  |             |               |
| 3    | Select the correct student from search results. | Selected Student             | Detailed student information is displayed.    |               |                  |             |               |

|   |   |                           |   |  |  |  |  |
|---|---|---------------------------|---|--|--|--|--|
|   | Click "View Transcript" button  | "View Transcript button " | Transcript is displayed for selected student                      |  |  |  |  |
|   | Click "Go Back" button  | "Go Back button "         | Returns the displayed student previously.                         |  |  |  |  |
| 4 | Click the "Add student" button for confirm addition of student as outlier | "Add Student" button      | "Student successfully added to the system!" message is displayed. |  |  |  |  |

#### Test Scenario 2: Failed Outlier Student Addition

This scenario tests the system response when an outlier student addition fails.

Project Name: Graduation Management System (GMS)

#### Test Case 2.1

|                       |  |                |  |
|-----------------------|--|----------------|--|
| Test Scenario ID      | OUTLIER-ADD  | Test Case ID   | OUTLIER-ADD-02   |
| Test Case Description | Advisor attempts to add an ineligible or not assigned outlier student and fails.                                 | Test Priority  | Medium   |
| Pre-Requisite         | 1. Advisor is logged in.<br>2. The student to be added has significant eligibility issues preventing graduation. | Post-Requisite | System appropriately prevents the addition and displays relevant error messages. |
| Designed-by           | Zeynep Rüzgar  | Executed-by    |  |
| Design date           | 24.05.2025   | Execution date |  |

Test Execution Steps:

| S.No | Action             | Inputs      | Expected Output       | Actual Output | Test Environment | Test Result | Test Comments |
|------|--------------------|-------------|-----------------------|---------------|------------------|-------------|---------------|
| 1    | Click "Add Outlier | Add Outlier | "Add Outlier Student" |               |                  |             |               |

|   |                  |                       |   |  |  |  |  |
|---|------------------|-----------------------|---|--|--|--|--|
|   | Student" button  | Student button        | dashboard is displayed.   |  |  |  |  |
| 2 | Enter student ID | Student ID: 290201130 | " This student is not assigned to this advisor or does not exist." message displayed. |  |  |  |  |

### Test Scenario 3: Student Already Registered to System

This scenario tests the system response when an outlier student already registered to system.

Project Name: Graduation Management System (GMS)

#### Test Case 3.1

|                       |  |                |   |
|-----------------------|--|----------------|---|
| Test Scenario ID      | OUTLIER-ADD  | Test Case ID   | OUTLIER-ADD-02  |
| Test Case Description | Advisor attempts to add a registered outlier student and fails.                          | Test Priority  | Medium  |
| Pre-Requisite         | 1. Advisor is logged in.<br>2. The student to be added already registered to the system. | Post-Requisite | System appropriately prevents the addition and displays relevant information message. |
| Designed-by           | Oğuzhan Yıldırım   | Executed-by    |   |
| Design date           | 24.05.2025   | Execution date |   |

Test Execution Steps:

| S.No | Action                             | Inputs                     | Expected Output                               | Actual Output | Test Environment | Test Result | Test Comments |
|------|------------------------------------|----------------------------|---|---------------|------------------|-------------|---------------|
| 1    | Click "Add Outlier Student" button | Add Outlier Student button | "Add Outlier Student" dashboard is displayed. |               |                  |             |               |
| 2    | Enter student ID                   | Student ID :290201157      | Matching students records and                 |               |                  |             |               |

|  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
|  |  |  | "This student is already registered in the system. message" displayed. |  |  |  |  |
|--|--|--|--|--|--|--|--|

## 6) View Certificates Page

This section covers test scenarios for the view certificates in the Graduation Management System (GMS).

### Test Scenario 1: View Honor and High Honor Certificate

This scenario focuses on identifying and viewing certificates of the students of each department.

Project Name: Graduation Management System (GMS)

#### Test Case 1.1

|                       |   |                |   |
|-----------------------|---|----------------|---|
| Test Scenario ID      | VIEW-CERTIFICATE  | Test Case ID   | VIEW-CERTIFICATE-1  |
| Test Case Description | Viewing the Certificates page and filtering students by Faculty, Department, Advisor, and Status for Honor Certificate. | Test Priority  | High  |
| Pre-Requisite         | 1.Student Affairs user is logged in.<br>2.Certificate data including Faculty, Department, Advisor, and Status exist.    | Post-Requisite | 1.Filtered student list and corresponding Transcript and Certificate buttons are displayed. |
| Designed-by           | Abdulkaki Çeltik  | Executed-by    |   |
| Design date           | 15.04.2025  | Execution date |   |

Test Execution Steps:

| S.No | Action   | Inputs                | Expected Output   | Actual Output | Test Environment | Test Result | Test Comments |
|------|--|-----------------------|---|---------------|------------------|-------------|---------------|
| 1    | Click the "Certificates" button on the sidebar | "Certificates" button | Certificates page with student table and filter buttons is displayed. |               |                  |             |               |
| 2    | Click the "Faculty" dropdown                   | Faculty filter        | List of faculties is displayed  |               |                  |             |               |
| 3    | Select a faculty                               | Selected Faculty      | Students from selected faculty are displayed                          |               |                  |             |               |
| 4    | Click the "Department" dropdown                | Department filter     | List of departments under selected faculty is displayed               |               |                  |             |               |
| 5    | Select a department                            | Selected Department   | Student list is filtered by selected department                       |               |                  |             |               |
| 6    | Click the "Advisor" dropdown                   | Advisor filter        | List of advisors from selected department is displayed                |               |                  |             |               |
| 7    | Select an advisor                              | Selected Advisor      | Student list is filtered by selected advisor                          |               |                  |             |               |
| 8    | Click the "Status" dropdown                    | Status filter         | List of statuses (e.g., System Approval) is displayed                 |               |                  |             |               |

|    |  |                      |   |  |  |  |  |
|----|--|----------------------|---|--|--|--|--|
| 9  | Select a status                                  | Selected Status      | Student list is filtered by status                            |  |  |  |  |
| 10 | Click the "Certificate" button next to a student | "Certificate" button | Honor certificate document is downloaded for selected student |  |  |  |  |

### Test Case 1.2

|                       |  |                  |   |
|-----------------------|--|------------------|---|
| Test Scenario ID      | VIEW-CERTIFICATE   | Test Case ID     | VIEW-CERTIFICATE-2  |
| Test Case Description | Viewing the all honor and high honor certificates and downloading them.  | Test Priority    | High  |
| Pre-Requirement       | 1.Student Affairs user is logged in.<br>2.Certificate data including Faculty, Department, Advisor, and Status exist. | Post-Requirement | 1.Filtered student list and corresponding Transcript and Certificate buttons are displayed. |
| Designed-by           | Abdulbaki Çeltik   | Executed-by      |   |
| Design date           | 15.04.2025   | Execution date   |   |

### Test Execution Steps:

| S.No | Action  | Inputs               | Expected Output   | Actual Output | Test Environment | Test Result | Test Comments |
|------|---|----------------------|---|---------------|------------------|-------------|---------------|
| 1    | Click the "Certificate" button on the sidebar | "Certificate" button | Certificates page with student table and filter buttons is displayed. |               |                  |             |               |
| 2    | Click the "Show more"                         | "Show more" button   | List of more students   |               |                  |             |               |

|   |   |   |  |  |  |  |  |
|---|---|---|--|--|--|--|--|
|   | button related to high honor certificate                  |   | are displayed  |  |  |  |  |
| 3 | Click the "Download All High Honor Certificates" button   | "Download All High Honor Certificates" button | All listed students high honor certificates downloaded |  |  |  |  |
| 4 | Click the "Show more" button related to honor certificate | "Show more" button                            | List of more students are displayed                    |  |  |  |  |
| 5 | Click the "Download All Honor Certificates" button        | "Download All Honor Certificates" button      | All listed students honor certificates downloaded      |  |  |  |  |

### Test Scenario 2: View Transcript

This scenario focuses on viewing transcripts of the students of each department.

Project Name: Graduation Management System (GMS)

#### Test Case 1.1

|                       |  |                |   |
|-----------------------|--|----------------|---|
| Test Scenario ID      | VIEW-TRANSCRIPT  | Test Case ID   | VIEW-TRANSCRIPT-1   |
| Test Case Description | Viewing the Certificates page and filtering students by Faculty, Department, Advisor, and Status for transcripts.        | Test Priority  | High  |
| Pre-Requisite         | 1.Student Affairs user is logged in.<br><br>2.Certificate data including Faculty, Department, Advisor, and Status exist. | Post-Requisite | 1.Filtered student list and corresponding Transcript and Certificate buttons are displayed. |

|             |                  |                |  |
|-------------|------------------|----------------|--|
| Designed-by | Abdulkaki Çeltik | Executed-by    |  |
| Design date | 15.04.2025       | Execution date |  |

Test Execution Steps:

| S.No | Action   | Inputs                | Expected Output   | Actual Output | Test Environment | Test Result | Test Comments |
|------|--|-----------------------|---|---------------|------------------|-------------|---------------|
| 1    | Click the "Certificates" button on the sidebar | "Certificates" button | Certificates page with student table and filter buttons is displayed. |               |                  |             |               |
| 2    | Click the "Faculty" dropdown                   | Faculty filter        | List of faculties is displayed  |               |                  |             |               |
| 3    | Select a faculty                               | Selected Faculty      | Students from selected faculty are displayed                          |               |                  |             |               |
| 4    | Click the "Department" dropdown                | Department filter     | List of departments under selected faculty is displayed               |               |                  |             |               |
| 5    | Select a department                            | Selected Department   | Student list is filtered by selected department                       |               |                  |             |               |
| 6    | Click the "Advisor" dropdown                   | Advisor filter        | List of advisors from selected department is displayed                |               |                  |             |               |
| 7    | Select an advisor                              | Selected Advisor      | Student list is filtered by selected advisor                          |               |                  |             |               |
| 8    | Click the "Status" dropdown                    | Status filter         | List of statuses (e.g.,   |               |                  |             |               |

|    |   |                     |  |  |  |  |  |
|----|---|---------------------|--|--|--|--|--|
|    |   |                     | System Approval) is displayed                |  |  |  |  |
| 9  | Select a status                                 | Selected Status     | Student list is filtered by status           |  |  |  |  |
| 10 | Click the "Transcript" button next to a student | "Transcript" button | Transcript is displayed for selected student |  |  |  |  |

## 7) Viewing Diplomas Page

This section covers test scenarios for the viewing diploma process in the Graduation Management System (GMS).

### Test Scenario 1: Viewing Diplomas

This scenario focuses on filtering students and viewing diplomas of the students.

#### Test Case 1.1

|                       |  |                |  |
|-----------------------|--|----------------|--|
| Test Scenario ID      | VIEW-DIPLOMA   | Test Case ID   | VIEW-DIPLOMA-01  |
| Test Case Description | Viewing the Diplomas page and filtering students by Faculty, Department, Advisor, and Status for diplomas.   | Test Priority  | High   |
| Pre-Requisite         | 1. Student Affairs user is logged in.<br>2. Diploma data including Faculty, Department, Advisor, and Status exist.<br>3. There should be exist students that will be graduated | Post-Requisite | 1. Filtered student list and corresponding diploma and transcript buttons are displayed. |
| Designed-by           | Abdulkaki Çeltik   | Executed-by    |  |

|             |            |                |  |
|-------------|------------|----------------|--|
| Design date | 15.04.2025 | Execution date |  |
|-------------|------------|----------------|--|

Test Execution Steps:

| S.No | Action                                     | Inputs              | Expected Output   | Actual Output | Test Environment | Test Result | Test Comments |
|------|--|---------------------|---|---------------|------------------|-------------|---------------|
| 1    | Click the "Diplomas" button on the sidebar | "Diplomas" button   | Diplomas page with student table and filter buttons is displayed. |               |                  |             |               |
| 2    | Click the "Faculty" dropdown               | Faculty filter      | List of faculties is displayed                                    |               |                  |             |               |
| 3    | Select a faculty from the dropdown         | Selected faculty    | Students from selected faculty are displayed                      |               |                  |             |               |
| 4    | Click the "Department" dropdown            | Department filter   | List of departments under selected faculty is displayed           |               |                  |             |               |
| 5    | Select a department                        | Selected Department | Student list is filtered by selected department                   |               |                  |             |               |
| 6    | Click the "Advisor" dropdown               | Advisor filter      | List of advisors from selected department is displayed            |               |                  |             |               |
| 7    | Select an advisor                          | Selected Advisor    | Student list is filtered by selected advisor                      |               |                  |             |               |
| 8    | Click the "Status" dropdown                | Status filter       | List of statuses is displayed (e.g. Graduated, Pending)           |               |                  |             |               |

|    |  |                  |   |  |  |  |  |
|----|--|------------------|---|--|--|--|--|
| 9  | Select a status                              | Slected statu    | Student list is filtered by status                  |  |  |  |  |
| 10 | Click the "Diploma" button next to a student | "Diploma" button | Diploma document for selected student is downloaded |  |  |  |  |

### Test Scenario 2: Viewing Transcripts

This scenario focuses on filtering students and viewing transcripts of the students.

#### Test Case 1.1

|                       |  |                |  |
|-----------------------|--|----------------|--|
| Test Scenario ID      | VIEW-DIPLOMA   | Test Case ID   | VIEW-DIPLOMA-01  |
| Test Case Description | Viewing the Diplomas page and filtering students by Faculty, Department, Advisor, and Status for transcripts.      | Test Priority  | High   |
| Pre-Requisite         | 1. Student Affairs user is logged in.<br>2. Diploma data including Faculty, Department, Advisor, and Status exist. | Post-Requisite | 1. Filtered student list and corresponding diploma and transcript buttons are displayed. |
| Designed-by           | Abdulbaki Çeltik   | Executed-by    |  |
| Design date           | 15.04.2025   | Execution date |  |

Test Execution Steps:

| S.No | Action                                     | Inputs            | Expected Output   | Actual Output | Test Environment | Test Result | Test Comments |
|------|--|-------------------|---|---------------|------------------|-------------|---------------|
| 1    | Click the "Diplomas" button on the sidebar | "Diplomas" button | Diplomas page with student table and filter buttons is displayed. |               |                  |             |               |
| 2    | Click the "Faculty" dropdown               | Faculty filter    | List of faculties is displayed                                    |               |                  |             |               |
| 3    | Select a faculty from                      | Selected faculty  | Students from selected  |               |                  |             |               |

|    |   |                     |   |  |  |  |  |
|----|---|---------------------|---|--|--|--|--|
|    | the dropdown                                    |                     | faculty are displayed                                   |  |  |  |  |
| 4  | Click the "Department" dropdown                 | Department filter   | List of departments under selected faculty is displayed |  |  |  |  |
| 5  | Select a department                             | Selected Department | Student list is filtered by selected department         |  |  |  |  |
| 6  | Click the "Advisor" dropdown                    | Advisor filter      | List of advisors from selected department is displayed  |  |  |  |  |
| 7  | Select an advisor                               | Selected Advisor    | Student list is filtered by selected advisor            |  |  |  |  |
| 8  | Click the "Status" dropdown                     | Status filter       | List of statuses is displayed (e.g. Graduated, Pending) |  |  |  |  |
| 9  | Select a status                                 | Selected status     | Student list is filtered by status                      |  |  |  |  |
| 10 | Click the "Transcript" button next to a student | "Transcript" button | Transcript document for selected student is opened      |  |  |  |  |

## 8) View the Home Page – Student Affairs

This section covers test scenarios for viewing the responsible units and the people in the Graduation Management System (GMS).

### Test Scenario 1: Successful view by Student Affairs

This scenario covers the successful viewing of the students and transcripts by Student Affairs in the Home page of Graduation Management System (GMS).

Project Name: Graduation Management System (GMS)

#### Test Case 1.1

|                       |  |                |  |
|-----------------------|--|----------------|--|
| Test Scenario ID      | HOME-AFFAIRS   | Test Case ID   | HOME – AFFAIRS-01                                |
| Test Case Description | Viewing the home page – Students   | Test Priority  | High   |
| Pre-Requisite         | 1. Student Affairs user is logged in.<br>2. Students advisors, departments and faculties exist | Post-Requisite | 1-Students by selected preferences are displayed |
| Designed-by           | Mete Akin Akdoğan  | Executed-by    |  |
| Design date           | 23.05.2025   | Execution date |  |

Test Execution Steps:

| S.No | Action                                | Inputs            | Expected Output  | Actual Output | Test Environment | Test Result | Test Comments |
|------|---------------------------------------|-------------------|--|---------------|------------------|-------------|---------------|
| 1    | Click to "Home" button in the sidebar | "Home" button     | "Home" dashboard is displayed                                    |               |                  |             |               |
| 2    | Click to "Students" button            | "Students" button | All of the existing students are displayed                       |               |                  |             |               |
| 3    | Click to "Faculty" button.            | "Faculty" button. | Faculties are displayed  |               |                  |             |               |
| 4    | Select a Faculty                      | Selected Faculty  | Only the students filtered by the selected Faculty are displayed |               |                  |             |               |

|    |                               |                      |  |  |  |  |  |
|----|-------------------------------|----------------------|--|--|--|--|--|
| 5  | Click to "Department" button. | "Department" button. | Only the Departments filtered by the selected faculty filter are displayed               |  |  |  |  |
| 6  | Select a Department           | Selected Department  | Only the students filtered by the selected Department are displayed                      |  |  |  |  |
| 7  | Click to "Advisor" button.    | "Advisor" button.    | Only the Advisors filtered by the selected department filter are displayed               |  |  |  |  |
| 8  | Select a Advisor              | Selected Advisor     | Only the students filtered by the selected Advisor are displayed                         |  |  |  |  |
| 9  | Click to "Status" button.     | "Status" button.     | Statuses are displayed   |  |  |  |  |
| 10 | Select a Status               | Selected Status      | Only the students filtered by the selected Advisor and the selected status are displayed |  |  |  |  |

|  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|

### Test Case 1.2

|                       |  |                |  |                |  |  |
|-----------------------|--|----------------|--|----------------|--|--|
| Test Scenario ID      | HOME-AFFAIRS   | Test Case ID   | HOME – AFFAIRS-02  |                |  |  |
| Test Case Description | Viewing the home page – Advisors   | Test Priority  | High   |                |  |  |
| Pre-Requisite         | 1. Student Affairs user is logged in.<br>2. Students advisors, departments and faculties exist | Post-Requisite | 1-Advisors by selected preferences are displayed<br><br>2-Students of the selected advisor are displayed |                |  |  |
| Designed-by           |  |                | Mete Akin Akdoğan  | Executed-by    |  |  |
| Design date           |  |                | 23.05.2025   | Execution date |  |  |

### Test Execution Steps:

| S. No | Action                                | Inputs            | Expected Output                            | Actual Output | Test Environment | Test Result | Test Comments |
|-------|---------------------------------------|-------------------|--|---------------|------------------|-------------|---------------|
| 1     | Click to "Home" button in the sidebar | "Home" button     | "Home" dashboard is displayed              |               |                  |             |               |
| 2     | Click to "Advisors" button            | "Student" button  | All of the existing advisors are displayed |               |                  |             |               |
| 3     | Click to "Faculty" button.            | "Faculty" button. | Faculties are displayed                    |               |                  |             |               |
| 4     | Select a Faculty                      | Selected Faculty  | Only the advisors filtered by the selected |               |                  |             |               |

|    |                                    |                           |  |  |  |  |  |
|----|------------------------------------|---------------------------|--|--|--|--|--|
|    |                                    |                           | Faculty are displayed  |  |  |  |  |
| 5  | Click to "Department" button.      | "Department" button.      | Only the Departments filtered by the selected faculty filter are displayed |  |  |  |  |
| 6  | Select a Department                | Selected Department       | Only the advisors filtered by the selected Department are displayed        |  |  |  |  |
| 7  | Click to "View Students" button.   | "View Students" button.   | Students of the related advisor are displayed                              |  |  |  |  |
| 8  | Click to "Transcript" button.      | "Transcript" button.      | Transcript of the related student is displayed                             |  |  |  |  |
| 9  | Click to "Go Back" button.         | "Go Back" button.         |  |  |  |  |  |
| 10 | Click to "Back to advisors" button | "Back to advisors" button | Previously filtered advisors are displayed                                 |  |  |  |  |

### Test Case 1.3

|                       |  |                |   |
|-----------------------|--|----------------|---|
| Test Scenario ID      | HOME-AFFAIRS   | Test Case ID   | HOME – AFFAIRS-03   |
| Test Case Description | Viewing the home page – Departments  | Test Priority  | High  |
| Pre-Requisite         | 1. Student Affairs user is logged in.<br>2. Students advisors, departments and faculties exist | Post-Requisite | 1-Department Secretariats by selected preferences are displayed<br><br>2-Advisors by selected preferences are displayed |

|             |                   |                |  |
|-------------|-------------------|----------------|--|
|             |                   |                | 3-Students of the selected advisor are displayed |
| Designed-by | Mete Akın Akdoğan | Executed-by    |  |
| Design date | 23.05.2025        | Execution date |  |

Test Execution Steps:

| S.No | Action                                | Inputs                  | Expected Output   | Actual Output | Test Environment | Test Result | Test Comments |
|------|---------------------------------------|-------------------------|---|---------------|------------------|-------------|---------------|
| 1    | Click to "Home" button in the sidebar | "Home" button           | "Home" dashboard is displayed   |               |                  |             |               |
| 2    | Click to "Departments" button         | "Departments" button    | All of the existing Department Secretariats are displayed                       |               |                  |             |               |
| 3    | Click to "Faculty" button.            | "Faculty" button.       | Faculties are displayed   |               |                  |             |               |
| 4    | Select a Faculty                      | Selected Faculty        | Only the Department Secretariats filtered by the selected Faculty are displayed |               |                  |             |               |
| 5    | Click to "View Advisors" button.      | "View Advisors" button. | Advisors of the related department secretariat are displayed                    |               |                  |             |               |
| 7    | Click to "View Students" button.      | "View Students" button. | Students of the related advisor are displayed                                   |               |                  |             |               |
| 8    | Click to "Transcript" button.         | "Transcript" button.    | Transcript of the related student is displayed                                  |               |                  |             |               |
| 9    | Click to "Go Back" button.            | "Go Back" button.       | Previously filtered students are displayed                                      |               |                  |             |               |

|    |   |  |   |  |  |  |  |
|----|---|--|---|--|--|--|--|
| 10 | Click to "Back to advisors" button                | "Back to advisors" button                | Previously filtered advisors are displayed                |  |  |  |  |
| 11 | Click to "Back to department secretariats" button | "Back to department secretariats" button | Previously filtered department secretariats are displayed |  |  |  |  |

#### Test Case 1.4

|                       |  |                |  |
|-----------------------|--|----------------|--|
| Test Scenario ID      | HOME-AFFAIRS   | Test Case ID   | HOME - AFFAIRS-04  |
| Test Case Description | Viewing the home page - Faculties  | Test Priority  | High   |
| Pre-Requisite         | 1. Student Affairs user is logged in.<br>2. Students advisors, departments and faculties exist | Post-Requisite | 1-Faculties by selected preferences are displayed<br><br>2-Departments by selected preferences are displayed<br><br>3-Advisors by selected preferences are displayed<br><br>4-Students of the selected advisor are displayed |
| Designed-by           | Mete Akın Akdoğan  | Executed-by    |  |
| Design date           | 23.05.2025   | Execution date |  |

#### Test Execution Steps:

| S.No | Action                                | Inputs               | Expected Output  | Actual Output | Test Environment | Test Result | Test Comments |
|------|---------------------------------------|----------------------|--|---------------|------------------|-------------|---------------|
| 1    | Click to "Home" button in the sidebar | "Home" button        | "Home" dashboard is displayed                          |               |                  |             |               |
| 2    | Click to "Faculties" button           | "Departments" button | All of the existing Faculty Secretariats are displayed |               |                  |             |               |

|   |   |  |  |  |  |  |  |
|---|---|--|--|--|--|--|--|
| 3 | Click to "View Department Secretariats" button.   | "View Department Secretariats" button.   | Department Secretariats of the related Faculty Secretariat are displayed |  |  |  |  |
| 4 | Click to "View Advisors" button.                  | "View Advisors" button.                  | Advisors of the related department secretariat are displayed             |  |  |  |  |
| 5 | Click to "View Students" button.                  | "View Students" button.                  | Students of the related advisor are displayed                            |  |  |  |  |
| 6 | Click to "Back to advisors" button                | "Back to advisors" button                | Previously filtered advisors are displayed                               |  |  |  |  |
| 7 | Click to "Back to department secretariats" button | "Back to department secretariats" button | Previously filtered department secretariats are displayed                |  |  |  |  |
| 8 | Click to "Back to Faculty secretariats" button    | "Back to Faculty secretariats" button    | Faculty secretariats are displayed                                       |  |  |  |  |

**Test Case 1.5**

|                       |  |                |  |
|-----------------------|--|----------------|--|
| Test Scenario ID      | HOME-AFFAIRS   | Test Case ID   | HOME - AFFAIRS-05  |
| Test Case Description | Viewing the home page - Cancel a Filter  | Test Priority  | High   |
| Pre-Requisite         | 1. Student Affairs user is logged in.<br>2. Students advisors, departments and faculties exist | Post-Requisite | 1- List of elements become unfiltered of the desired attribute |

|             |   |                |  |
|-------------|---|----------------|--|
|             | 3-Current display has filtered elements |                |  |
| Designed-by | Mete Akın Akdoğan                       | Executed-by    |  |
| Design date | 23.05.2025                              | Execution date |  |

Test Execution Steps:

| S.No | Action   | Inputs          | Expected Output  | Actual Output | Test Environment | Test Result | Test Comments |
|------|--|-----------------|--|---------------|------------------|-------------|---------------|
| 1    | Click to "Cancel" button next to the chosen filter | "Cancel" button | Effects of the chosen filter is removed from the display |               |                  |             |               |

## 9) View the Home Page – Advisor

This section covers test scenarios for viewing the responsible units and the people in the Graduation Management System (GMS).

### Test Scenario 1: Successful view by Advisor

This scenario covers the successful viewing of the students by Advisor in the Home page of Graduation Management System (GMS).

Project Name: Graduation Management System (GMS)

#### Test Case 1.1

|                       |   |                |   |
|-----------------------|---|----------------|---|
| Test Scenario ID      | HOME-ADVISOR  | Test Case ID   | HOME – ADVISOR-01   |
| Test Case Description | Viewing the home page                                     | Test Priority  | High  |
| Pre-Requisite         | 1. Advisor user is logged in.<br>2. Students status exist | Post-Requisite | 1- The students for whom the advisor is responsible are listed. |
| Designed-by           | Oğuzhan Yıldırım  | Executed-by    |   |
| Design date           | 23.05.2025  | Execution date |   |

Test Execution Steps:

| S.No | Action | Inputs | Expected Output | Actual Output | Test Environment | Test Result | Test Comments |
|------|--------|--------|-----------------|---------------|------------------|-------------|---------------|
|------|--------|--------|-----------------|---------------|------------------|-------------|---------------|

|   |                                       |                  |  |  |  |  |  |
|---|---------------------------------------|------------------|--|--|--|--|--|
| 1 | Click to "Home" button in the sidebar | "Home" button    | "Home" dashboard is displayed and all of the existing students are displayed |  |  |  |  |
| 2 | Click to "Status" button.             | "Status" button. | Statuses are displayed   |  |  |  |  |
| 3 | Select a Status                       | Selected Status  | Only the students filtered by the the selected status are displayed          |  |  |  |  |

### Test Case 1.2

|                       |   |                |  |
|-----------------------|---|----------------|--|
| Test Scenario ID      | HOME-ADVISOR  | Test Case ID   | HOME – ADVISOR-02  |
| Test Case Description | Viewing the home page – Transcripts                       | Test Priority  | High   |
| Pre-Requisite         | 1. Advisor user is logged in.<br>2. Students status exist | Post-Requisite | 1- The students for whom the advisor is responsible are listed with their transcripts. |
| Designed-by           | Oğuzhan Yıldırım  | Executed-by    |  |
| Design date           | 23.05.2025  | Execution date |  |

### Test Execution Steps:

| S.No | Action                                | Inputs        | Expected Output  | Actual Output | Test Environment | Test Result | Test Comments |
|------|---------------------------------------|---------------|--|---------------|------------------|-------------|---------------|
| 1    | Click to "Home" button in the sidebar | "Home" button | "Home" dashboard is displayed and all of the existing students are displayed |               |                  |             |               |

|   |                               |                      |  |  |  |  |  |
|---|-------------------------------|----------------------|--|--|--|--|--|
| 2 | Click to "Transcript" button. | "Transcript" button. | All transcript information of the selected student is displayed. |  |  |  |  |
|---|-------------------------------|----------------------|--|--|--|--|--|

## 10) View the Home Page – Faculty Secretariat

This section covers test scenarios for viewing the responsible units and the people in the Graduation Management System (GMS).

### Test Scenario 1: Successful view by Faculty Secretariat

This scenario covers the successful viewing of the faculty secretariats, advisors and students in the Home page of Graduation Management System (GMS).

Project Name: Graduation Management System (GMS)

#### Test Case 1.1

|                       |   |                |  |
|-----------------------|---|----------------|--|
| Test Scenario ID      | FACULTY-SECRETARIAT   | Test Case ID   | FACULTY-SECRETARIAT-01                           |
| Test Case Description | Viewing the home page – Students  | Test Priority  | High   |
| Pre-Requisite         | 1. Faculty Secretariat user is logged in.<br>2. Students advisors, departments and students exist | Post-Requisite | 1-Students by selected preferences are displayed |
| Designed-by           | Oğuzhan Yıldırım  | Executed-by    |  |
| Design date           | 25.05.2025  | Execution date |  |

Test Execution Steps:

| S.No | Action                                | Inputs            | Expected Output               | Actual Output | Test Environment | Test Result | Test Comments |
|------|---------------------------------------|-------------------|-------------------------------|---------------|------------------|-------------|---------------|
| 1    | Click to "Home" button in the sidebar | "Home" button     | "Home" dashboard is displayed |               |                  |             |               |
| 2    | Click to "Students" button            | "Students" button | All of the existing students  |               |                  |             |               |

|    |                               |                      |  |  |  |  |  |
|----|-------------------------------|----------------------|--|--|--|--|--|
|    |                               |                      | are displayed  |  |  |  |  |
| 5  | Click to "Department" button. | "Department" button. | Only departments that the faculty secretary is affiliated with are listed. |  |  |  |  |
| 6  | Select a Department           | Selected Department  | Only the students filtered by the selected Department are displayed        |  |  |  |  |
| 7  | Click to "Advisor" button.    | "Advisor" button.    | Only advisors that the faculty secretary is affiliated with are listed.    |  |  |  |  |
| 8  | Select a Advisor              | Selected Advisor     | Only the students filtered by the selected Advisor are displayed           |  |  |  |  |
| 9  | Click to "Status" button.     | "Status" button.     | Statuses are displayed   |  |  |  |  |
| 10 | Select a Status               | Selected Status      | Only the students filtered by the selected Advisor                         |  |  |  |  |

|    |  |                     |  |  |  |  |  |
|----|--|---------------------|--|--|--|--|--|
|    |  |                     | and the selected status are displayed                            |  |  |  |  |
| 11 | Click to "Transcript" button beside the relevant student | "Transcript" button | All transcript information of the selected student is displayed. |  |  |  |  |

### Test Case 1.2

|                       |   |                |  |                |  |  |
|-----------------------|---|----------------|--|----------------|--|--|
| Test Scenario ID      | FACULTY-SECRETARIAT   | Test Case ID   | FACULTY-SECRETARIAT-02                           |                |  |  |
| Test Case Description | Viewing the home page – Advisors  | Test Priority  | High   |                |  |  |
| Pre-Requisite         | 1. Faculty Secretariat user is logged in.<br>2. Students advisors, departments and students exist | Post-Requisite | 1-Advisors by selected preferences are displayed |                |  |  |
| Designed-by           |   |                | Oğuzhan Yıldırım                                 | Executed-by    |  |  |
| Design date           |   |                | 23.05.2025                                       | Execution date |  |  |

### Test Execution Steps:

| S.No | Action                                | Inputs           | Expected Output                            | Actual Output | Test Environment | Test Result | Test Comments |
|------|---------------------------------------|------------------|--|---------------|------------------|-------------|---------------|
| 1    | Click to "Home" button in the sidebar | "Home" button    | "Home" dashboard is displayed              |               |                  |             |               |
| 2    | Click to "Advisors" button            | "Advisor" button | All of the existing advisors are displayed |               |                  |             |               |

|   |                                    |                           |   |  |  |  |  |
|---|------------------------------------|---------------------------|---|--|--|--|--|
| 3 | Click to "Department" button.      | "Department" button.      | Only the Departments filtered by the science faculty filter are displayed |  |  |  |  |
| 4 | Select a Department                | Selected Department       | Only the advisors filtered by the selected Department are displayed       |  |  |  |  |
| 5 | Click to "View Students" button.   | "View Students" button.   | All students belonging to the relevant advisor are listed.                |  |  |  |  |
| 6 | Click to "Transcript" button       | "Transcript" button       | Click to "Transcript" button  |  |  |  |  |
| 7 | Click to "Go Back" button          | "Go Back" button          | Previously filtered students are displayed                                |  |  |  |  |
| 8 | Click to "Back to advisors" button | "Back to advisors" button | Previously filtered advisors are displayed                                |  |  |  |  |

**Test Case 1.3**

|                       |   |                |   |
|-----------------------|---|----------------|---|
| Test Scenario ID      | FACULTY-SECRETARIAT   | Test Case ID   | FACULTY-SECRETARIAT-03                                      |
| Test Case Description | Viewing the home page - Departments   | Test Priority  | High  |
| Pre-Requisite         | 1. Faculty Secretariat user is logged in.<br>2. Students advisors, departments and students exist | Post-Requisite | 1-Department Secretariats by relevant faculty are displayed |

|             |                  |                |  |
|-------------|------------------|----------------|--|
| Designed-by | Oğuzhan Yıldırım | Executed-by    |  |
| Design date | 24.05.2025       | Execution date |  |

Test Execution Steps:

| S.No | Action                                | Inputs                    | Expected Output  | Actual Output | Test Environment | Test Results | Test Comments |
|------|---------------------------------------|---------------------------|--|---------------|------------------|--------------|---------------|
| 1    | Click to "Home" button in the sidebar | "Home" button             | "Home" dashboard is displayed                                |               |                  |              |               |
| 2    | Click to "Departments" button         | "Departments" button      | All of the existing Departments Secretariats are displayed   |               |                  |              |               |
| 3    | Click to "View Advisors" button.      | "View Advisors" button.   | Advisors of the related department secretariat are displayed |               |                  |              |               |
| 4    | Click to "View Students" button.      | "View Students" button.   | Students of the related advisor are displayed                |               |                  |              |               |
| 5    | Click to "Transcript" button.         | "Transcript" button.      | Transcript of the related student is displayed               |               |                  |              |               |
| 6    | Click to "Go Back" button.            | "Go Back" button.         | Previously filtered students are displayed                   |               |                  |              |               |
| 7    | Click to "Back to advisors" button    | "Back to advisors" button | Previously filtered advisors are displayed                   |               |                  |              |               |
| 8    | Click to "Back to department          | "Back to department       | Previously filtered department                               |               |                  |              |               |

|  |                          |                         |  |  |  |  |  |
|--|--------------------------|-------------------------|--|--|--|--|--|
|  | secretariats<br>" button | secretariats"<br>button | t<br>secretariat<br>s are<br>displayed |  |  |  |  |
|--|--------------------------|-------------------------|--|--|--|--|--|

#### Test Case 1.4

|                       |  |                |  |
|-----------------------|--|----------------|--|
| Test Scenario ID      | FACULTY-<br>SECRETARIAT  | Test Case ID   | FACULTY-<br>SECRETARIAT-04                                     |
| Test Case Description | Viewing the home page – Cancel a Filter  | Test Priority  | High   |
| Pre-Requisite         | 1. Faculty Secretariat user is logged in.<br>2. Students advisors, departments and students exist<br>3-Current display has filtered elements | Post-Requisite | 1- List of elements become unfiltered of the desired attribute |
| Designed-by           | Mete Akin Akdoğan  | Executed-by    |  |
| Design date           | 23.05.2025   | Execution date |  |

#### Test Execution Steps:

| S.No | Action   | Inputs          | Expected Output  | Actual Output | Test Environment | Test Result | Test Comments |
|------|--|-----------------|--|---------------|------------------|-------------|---------------|
| 1    | Click to "Cancel" button next to the chosen filter | "Cancel" button | Effects of the chosen filter is removed from the display |               |                  |             |               |

### 11) View the Home Page – Department Secretariat

This section covers test scenarios for viewing the responsible units and the people in the Graduation Management System (GMS).

#### Test Scenario 1: Successful view by Department Secretariat

This scenario covers the successful viewing of the advisors and students in the Home page of Graduation Management System (GMS).

Project Name: Graduation Management System (GMS)

### Test Case 1.1

|                       |   |                |  |
|-----------------------|---|----------------|--|
| Test Scenario ID      | DEPARTMENT-SECRETARIAT  | Test Case ID   | DEPARTMENT-SECRETARIAT-01                        |
| Test Case Description | Viewing the home page - Students  | Test Priority  | High   |
| Pre-Requisite         | 1. Department Secretariat user is logged in.<br>2. Students advisors and students exist | Post-Requisite | 1-Students by selected preferences are displayed |
| Designed-by           | Oğuzhan Yıldırım  | Executed-by    |  |
| Design date           | 25.05.2025  | Execution date |  |

#### Test Execution Steps:

| S.No | Action                                | Inputs            | Expected Output  | Actual Output | Test Environment | Test Result | Test Comments |
|------|---------------------------------------|-------------------|--|---------------|------------------|-------------|---------------|
| 1    | Click to "Home" button in the sidebar | "Home" button     | "Home" dashboard is displayed  |               |                  |             |               |
| 2    | Click to "Students" button            | "Students" button | All of the existing students are displayed                                 |               |                  |             |               |
| 3    | Click to "Advisor" button.            | "Advisor" button. | Only advisors that the department secretary is affiliated with are listed. |               |                  |             |               |
| 4    | Select a Advisor                      | Selected Advisor  | Only the students filtered by the selected Advisor are displayed           |               |                  |             |               |
| 5    | Click to "Status" button.             | "Status" button.  | Statuses are displayed   |               |                  |             |               |

|   |  |                     |  |  |  |  |  |
|---|--|---------------------|--|--|--|--|--|
| 6 | Select a Status  | Selected Status     | Only the students filtered by the selected Advisor and the selected status are displayed |  |  |  |  |
| 7 | Click to "Transcript" button beside the relevant student | "Transcript" button | All transcript information of the selected student is displayed.                         |  |  |  |  |
| 8 | Click to "Go Back" button.                               | "Go Back" button    | Previously filtered students are displayed   |  |  |  |  |

### Test Case 1.2

|                       |   |                |  |                |  |  |  |
|-----------------------|---|----------------|--|----------------|--|--|--|
| Test Scenario ID      | DEPARTMENT-SECRETARIAT  | Test Case ID   | DEPARTMENT-SECRETARIAT-02                        |                |  |  |  |
| Test Case Description | Viewing the home page – Advisors  | Test Priority  | High   |                |  |  |  |
| Pre-Requisite         | 1. Department Secretariat user is logged in.<br>2. Students advisors and students exist | Post-Requisite | 1-Advisors by selected preferences are displayed |                |  |  |  |
| Designed-by           |   |                | Oğuzhan Yıldırım                                 | Executed-by    |  |  |  |
| Design date           |   |                | 24.05.2025                                       | Execution date |  |  |  |

Test Execution Steps:

| S.No | Action  | Inputs                    | Expected Output  | Actual Output | Test Environment | Test Result | Test Comments |
|------|---|---------------------------|--|---------------|------------------|-------------|---------------|
| 1    | Click to "Home" button in the sidebar           | "Home" button             | "Home" dashboard is displayed                              |               |                  |             |               |
| 2    | Click to "Advisors" button                      | "Advisor" button          | All of the existing advisors are displayed                 |               |                  |             |               |
| 3    | Click to "View Students" button.                | "View Students" button.   | All students belonging to the relevant advisor are listed. |               |                  |             |               |
| 4    | Click to "Back to advisors" button              | "Back to advisors" button | Previously filtered advisors are displayed                 |               |                  |             |               |
| 5    | Click to "Transcript" button beside to student. | "Transcript" button       | Transcript of the related student is displayed             |               |                  |             |               |
| 6    | Click to "Go Back" button                       | "Go Back" button          | Previously filtered students are displayed                 |               |                  |             |               |
| 7    | Click to "Back to the Advisor" button           | "Back to Advisor" button  | Previously filtered advisors are displayed                 |               |                  |             |               |

### Test Case 1.3

|                  |                        |              |                           |
|------------------|------------------------|--------------|---------------------------|
| Test Scenario ID | DEPARTMENT-SECRETARIAT | Test Case ID | DEPARTMENT-SECRETARIAT-03 |
|------------------|------------------------|--------------|---------------------------|

|                       |   |                |  |
|-----------------------|---|----------------|--|
| Test Case Description | Viewing the home page – Cancel a Filter   | Test Priority  | High   |
| Pre-Requisite         | 1. Department Secretariat user is logged in.<br>2. Students advisors, and students exist<br>3-Current display has filtered elements | Post-Requisite | 1- List of elements become unfiltered of the desired attribute |
| Designed-by           | Oğuzhan Yıldırım  | Executed-by    |  |
| Design date           | 24.05.2025  | Execution date |  |

Test Execution Steps:

| S.No | Action   | Inputs          | Expected Output  | Actual Output | Test Environment | Test Result | Test Comments |
|------|--|-----------------|--|---------------|------------------|-------------|---------------|
| 1    | Click to "Cancel" button next to the chosen filter | "Cancel" button | Effects of the chosen filter is removed from the display |               |                  |             |               |

## 12) View the Home Page – Student

This section covers test scenarios for viewing the responsible units and the people in the Graduation Management System (GMS).

### Test Scenario 1: Successful view by Student

This scenario covers the successful viewing of the student informations in the Home page of Graduation Management System (GMS).

Project Name: Graduation Management System (GMS)

#### Test Case 1.1

|                       |                               |                |   |
|-----------------------|-------------------------------|----------------|---|
| Test Scenario ID      | STUDENT                       | Test Case ID   | STUDENT-01  |
| Test Case Description | Viewing the home page         | Test Priority  | High  |
| Pre-Requisite         | 1. Student user is logged in. | Post-Requisite | 1-Student's and its advisor informations are displayed. |
| Designed-by           | Oğuzhan Yıldırım              | Executed-by    |   |
| Design date           | 25.05.2025                    | Execution date |   |

Test Execution Steps:

| S.No | Action                                | Inputs        | Expected Output  | Actual Output | Test Environment | Test Result | Test Comments |
|------|---------------------------------------|---------------|--|---------------|------------------|-------------|---------------|
| 1    | Click to "Home" button in the sidebar | "Home" button | Student's informations, graduation progress and own advisor information displayed. |               |                  |             |               |

### Test Case 1.2

|                       |                               |                |  |
|-----------------------|-------------------------------|----------------|--|
| Test Scenario ID      | STUDENT                       | Test Case ID   | STUDENT-02   |
| Test Case Description | Viewing the Transcript        | Test Priority  | High   |
| Pre-Requisite         | 1. Student user is logged in. | Post-Requisite | 1-Student's academic transcript information displayed. |
| Designed-by           | Oğuzhan Yıldırım              | Executed-by    |  |
| Design date           | 25.05.2025                    | Execution date |  |

Test Execution Steps:

| S.No | Action                                      | Inputs              | Expected Output                          | Actual Output | Test Environment | Test Result | Test Comments |
|------|---|---------------------|--|---------------|------------------|-------------|---------------|
| 1    | Click to "Transcript" button in the sidebar | "Transcript" button | Student's academic transcript displayed. | AA            |                  |             |               |

### 13) Get Top Three Students – Faculty Level

This section covers test scenarios for viewing the responsible units and the people in the Graduation Management System (GMS).

#### Test Scenario 1: Successful view by Faculty Secretariat

This scenario covers the top three students of the related faculty in the Top Three Students page of Graduation Management System (GMS).

Project Name: Graduation Management System (GMS)

### Test Case 1.1

|                  |                    |              |                       |
|------------------|--------------------|--------------|-----------------------|
| Test Scenario ID | TOP-THREE-STUDENTS | Test Case ID | TOP-THREE-STUDENTS-01 |
|------------------|--------------------|--------------|-----------------------|

|                       |   |                |  |
|-----------------------|---|----------------|--|
| Test Case Description | Viewing the top three students  | Test Priority  | High   |
| Pre-Requisite         | 1. Faculty Secretariat user is logged in.<br>2. Faculty Secretariat opened the Top Three Students side bar. | Post-Requisite | 1- The page displays the top three performing students across all departments in your faculty. |
| Designed-by           | Oğuzhan Yıldırım  | Executed-by    |  |
| Design date           | 25.05.2025  | Execution date |  |

Test Execution Steps:

| S.No | Action  | Inputs                      | Expected Output  | Actual Output | Test Environment | Test Result | Test Comments |
|------|---|-----------------------------|--|---------------|------------------|-------------|---------------|
| 1    | Click to "Top Three Students" button in the sidebar | "Top Three Students" button | Top three students from all department in related faculty displayed. |               |                  |             |               |
| 2    | Click to "Transcript" button                        | "Transcript" button         | Student's academic transcript displayed.                             |               |                  |             |               |
| 3    | Click to "Go Back" button                           | "Go Back" button            | Previously shown students are displayed                              | AA            |                  |             |               |

#### 14) Get Top Three Students – Department Level

This section covers test scenarios for viewing the responsible units and the people in the Graduation Management System (GMS).

##### Test Scenario 1: Successful view by Department Secretariat

This scenario covers the top three students of the related department in the Top Three Students page of Graduation Management System (GMS).

Project Name: Graduation Management System (GMS)

##### Test Case 1.1

|                  |           |              |              |
|------------------|-----------|--------------|--------------|
| Test Scenario ID | TOP-THREE | Test Case ID | TOP-THREE-01 |
|------------------|-----------|--------------|--------------|

|                       |   |                |  |
|-----------------------|---|----------------|--|
| Test Case Description | Viewing the top three students  | Test Priority  | High   |
| Pre-Requisite         | 1. Department Secretariat user is logged in.<br>2. Secretariat opened the Top Three Students sidebar. | Post-Requisite | 1- The page displays the top three performing students in your department. |
| Designed-by           | Oğuzhan Yıldırım  | Executed-by    |  |
| Design date           | 25.05.2025  | Execution date |  |

Test Execution Steps:

| S.No | Action  | Inputs                      | Expected Output                                       | Actual Output | Test Environment | Test Result | Test Comments |
|------|---|-----------------------------|---|---------------|------------------|-------------|---------------|
| 1    | Click to "Top Three Students" button in the sidebar | "Top Three Students" button | Top three students from related department displayed. |               |                  |             |               |
| 2    | Click to "Transcript" button                        | "Transcript" button         | Student's academic transcript displayed.              |               |                  |             |               |
| 3    | Click to "Go Back" button                           | "Go Back" button            | Previously shown students are displayed               |               |                  |             |               |

### 15) Get Top Three Students – Student Affairs Level

This section covers test scenarios for viewing the responsible units and the people in the Graduation Management System (GMS).

#### Test Scenario 1: Student Affairs Views Top Three Students From Whole Departments

This scenario covers the top three students of the university in the Top Three Students page of Graduation Management System (GMS).

Project Name: Graduation Management System (GMS)

### Test Case 1.1

|                       |  |                |   |
|-----------------------|--|----------------|---|
| Test Scenario ID      | TOP-THREE-AFFAIR   | Test Case ID   | TOP-THREE-AFFAIR-01   |
| Test Case Description | Viewing the top three students   | Test Priority  | High  |
| Pre-Requisite         | 1. Student Affairs user is logged in.<br>2. Student Affairs opened the Top Three Students sidebar. | Post-Requisite | 1- The page displays the top three performing students in whole university. |
| Designed-by           | Oğuzhan Yıldırım   | Executed-by    |   |
| Design date           | 25.05.2025   | Execution date |   |

#### Test Execution Steps:

| S.No | Action  | Inputs                      | Expected Output                                    | Actual Output | Test Environment | Test Result | Test Comments |
|------|---|-----------------------------|--|---------------|------------------|-------------|---------------|
| 1    | Click to "Top Three Students" button in the sidebar | "Top Three Students" button | Top three students from all departments displayed. |               |                  |             |               |
| 2    | Click to "Transcript" button                        | "Transcript" button         | Student's academic transcript displayed.           |               |                  |             |               |
| 3    | Click to "Go Back" button                           | "Go Back" button            | Previously shown students are displayed            |               |                  |             |               |

### Test Scenario 2: Successful Filtered View of Top Three Students by Student Affairs

This scenario covers the filtered top three students of the university in the Top Three Students page of Graduation Management System (GMS).

Project Name: Graduation Management System (GMS)

### Test Case 1.1

|                  |                  |              |                     |
|------------------|------------------|--------------|---------------------|
| Test Scenario ID | TOP-THREE-AFFAIR | Test Case ID | TOP-THREE-AFFAIR-01 |
|------------------|------------------|--------------|---------------------|

|                       |  |                |   |
|-----------------------|--|----------------|---|
| Test Case Description | Viewing the top three students - Faculty   | Test Priority  | High  |
| Pre-Requisite         | 1. Student Affairs user is logged in.<br>2. Student Affairs opened the Top Three Students sidebar. | Post-Requisite | 1- The page displays the top three performing students from selected faculty. |
| Designed-by           | Oğuzhan Yıldırım   | Executed-by    |   |
| Design date           | 25.05.2025   | Execution date |   |

Test Execution Steps:

| S.No | Action  | Inputs                      | Expected Output                                     | Actual Output | Test Environment | Test Result | Test Comments |
|------|---|-----------------------------|---|---------------|------------------|-------------|---------------|
| 1    | Click to "Top Three Students" button in the sidebar | "Top Three Students" button | Top three students from all departments displayed.  |               |                  |             |               |
|      | Click to "Select Faculty" bar                       | Selected faculty            | Top three students from selected faculty displayed. |               |                  |             |               |
| 2    | Click to "Transcript" button                        | "Transcript" button         | Student's academic transcript displayed.            |               |                  |             |               |
| 3    | Click to "Go Back" button                           | "Go Back" button            | Previously shown students are displayed             |               |                  |             |               |

**Test Case 1.2**

|                       |   |                |                              |
|-----------------------|---|----------------|------------------------------|
| Test Scenario ID      | TOP-THREE-AFFAIR                            | Test Case ID   | TOP-THREE-AFFAIR-02          |
| Test Case Description | Viewing the top three students – Department | Test Priority  | High                         |
| Pre-Requisite         | 1. Student Affairs user is logged in.       | Post-Requisite | 1- The page displays the top |

|             |   |                |   |
|-------------|---|----------------|---|
|             | 2. Student Affair opened the Top Three Students side bar. |                | three performing students from selected department. |
| Designed-by | Oğuzhan Yıldırım  | Executed-by    |   |
| Design date | 25.05.2025  | Execution date |   |

Test Execution Steps:

| S.No | Action  | Inputs                      | Expected Output  | Actual Output | Test Environment | Test Result | Test Comments |
|------|---|-----------------------------|--|---------------|------------------|-------------|---------------|
| 1    | Click to "Top Three Students" button in the sidebar | "Top Three Students" button | Top three students from all departments displayed.     |               |                  |             |               |
|      | Click to "Select Department" bar                    | Selected department         | Top three students from selected department displayed. |               |                  |             |               |
| 2    | Click to "Transcript" button                        | "Transcript" button         | Student's academic transcript displayed.               |               |                  |             |               |
| 3    | Click to "Go Back" button                           | "Go Back" button            | Previously shown students are displayed                |               |                  |             |               |

## 16) Department Secretariat Approves Eligible Students

This section covers test scenarios for department secretariat approving eligible students in the Graduation Management System (GMS).

### Test Scenario 1: Department Secretariat Checks Eligible Students

This scenario tests the retrieval and display of eligible students for an department secretariat.

Project Name: Graduation Management System (GMS)

#### Test Case 1.1

|                  |                  |              |                     |
|------------------|------------------|--------------|---------------------|
| Test Scenario ID | DEPT-SEC-APPROVE | Test Case ID | DEPT-SEC-APPROVE-01 |
|------------------|------------------|--------------|---------------------|

|                       |  |                |  |
|-----------------------|--|----------------|--|
| Test Case Description | Department Secretariat Successfully Views Eligible Students  | Test Priority  | High   |
| Pre-Requisite         | 1. Department secretariat is logged in.<br>2. Eligible students have been initialized in the system.<br>3. The department secretariat has students assigned to them. | Post-Requisite | Department secretariat can check a list of eligible students assigned to them. |
| Designed-by           | Oğuzhan Yıldırım   | Executed-by    |  |
| Design date           | 24.05.2025   | Execution date |  |

#### Test Execution Steps:

| S.No | Action  | Inputs                       | Expected Output  | Actual Output | Test Environment | Test Result | Test Comments |
|------|---|------------------------------|--|---------------|------------------|-------------|---------------|
| 1    | Click to the "Graduation Approval" button in sidebar. | "Graduation Approval" button | Advisors who do not approve their students and students whose advisors approve them are displayed separately |               |                  |             |               |
| 2    | Click to the "Transcript" button                      | "Transcript" button          | Student's academic transcript displayed.   |               |                  |             |               |
| 3    | Click to the "Go Back" button                         | "Go Back" button             | Previous student lists shown again.  |               |                  |             |               |
| 4    | Click to the check buttons                            | Check button                 | Button marked with a   |               |                  |             |               |

|   |  |                           |  |  |  |  |  |
|---|--|---------------------------|--|--|--|--|--|
|   | next to students                       |                           | blue tick and "Approve Selected" button activated.                               |  |  |  |  |
| 5 | Click to the "Approve Selected" button | "Approve Selected" button | The selected student approved and removed from Student Graduation Approval List. |  |  |  |  |

### Test Scenario 2: Department Secretariat Approves Multiple Students

This scenario tests the bulk approval of multiple eligible students by a department secretariat.

Project Name: Graduation Management System (GMS)

#### Test Case 2.1

|                       |  |                |   |
|-----------------------|--|----------------|---|
| Test Scenario ID      | DEPT-SEC-APPROVE   | Test Case ID   | DEPT-SEC-APPROVE -02  |
| Test Case Description | Department Secretariat Successfully Approves Multiple Students   | Test Priority  | High  |
| Pre-Requisite         | 1. Department secretariat is logged in.<br>2. Eligible students have been initialized in the system.<br>3. The department secretariat has students assigned to them. | Post-Requisite | Department secretariat can check a list of eligible students assigned to them.. |
| Designed-by           | Oğuzhan Yıldırım   | Executed-by    |   |
| Design date           | 24.05.2025   | Execution date |   |

Test Execution Steps:

| S.No | Action  | Inputs                       | Expected Output  | Actual Output | Test Environment | Test Result | Test Comments |
|------|---|------------------------------|--|---------------|------------------|-------------|---------------|
| 1    | Click to the "Graduation Approval" button in sidebar. | "Graduation Approval" button | Advisors who do not approve their students and students whose advisors approve them are displayed separately     |               |                  |             |               |
| 2    | Click the button that selects all students            | Select all students button   | All students are selected in the list.   |               |                  |             |               |
| 3    | Click the "Approve Selected" button.                  | "Approve Selected" button    | All students approved, removed from Approval List and "No students requiring approval found." message displayed. |               |                  |             |               |

### 17) Faculty Secretariat Approves Eligible Students

This section covers test scenarios for department secretariat approving eligible students in the Graduation Management System (GMS).

#### Test Scenario 1: Faculty Secretariat Checks Eligible Students

This scenario tests the retrieval and display of eligible students for an faculty secretariat.

Project Name: Graduation Management System (GMS)

### Test Case 1.1

|                       |  |                |   |
|-----------------------|--|----------------|---|
| Test Scenario ID      | FAC-SEC-APPROVE  | Test Case ID   | FAC-SEC-APPROVE-01  |
| Test Case Description | Faculty Secretariat Successfully Views Eligible Students   | Test Priority  | High  |
| Pre-Requisite         | 1. Faculty secretariat is logged in.<br>2. Eligible students have been initialized in the system.<br>3. The faculty secretariat has students assigned to them. | Post-Requisite | Faculty secretariat can check a list of eligible students assigned to them. |
| Designed-by           | Oğuzhan Yıldırım   | Executed-by    |   |
| Design date           | 24.05.2025   | Execution date |   |

### Test Execution Steps:

| S.No | Action  | Inputs                       | Expected Output  | Actual Output | Test Environment | Test Result | Test Comments |
|------|---|------------------------------|--|---------------|------------------|-------------|---------------|
| 1    | Click to the "Graduation Approval" button in sidebar. | "Graduation Approval" button | Department secretariats who do not approve their students and students whose department secretariats approve them are displayed separately |               |                  |             |               |
| 2    | Click to the "Transcript" button                      | "Transcript" button          | Student's academic transcript displayed.   |               |                  |             |               |

|   |   |                           |  |  |  |  |  |
|---|---|---------------------------|--|--|--|--|--|
| 3 | Click to the "Go Back" button               | "Go Back" button          | Previous student lists shown again.  |  |  |  |  |
| 4 | Click to the check buttons next to students | Check button              | Button marked with a blue tick and "Approve Selected" button activated.          |  |  |  |  |
| 5 | Click to the "Approve Selected" button      | "Approve Selected" button | The selected student approved and removed from Student Graduation Approval List. |  |  |  |  |

### Test Scenario 2: Faculty Secretariat Approves Multiple Students

This scenario tests the bulk approval of multiple eligible students by a faculty secretariat.

Project Name: Graduation Management System (GMS)

#### Test Case 2.1

|                       |  |                |   |
|-----------------------|--|----------------|---|
| Test Scenario ID      | FAC-SEC-APPROVE  | Test Case ID   | FAC-SEC-APPROVE - 02  |
| Test Case Description | Faculty Secretariat Successfully Approves Multiple Students  | Test Priority  | High  |
| Pre-Requisite         | 1. Faculty secretariat is logged in.<br>2. Eligible students have been initialized in the system.<br>3. The faculty secretariat has students assigned to them. | Post-Requisite | Faculty secretariat can check a list of eligible students assigned to them. |
| Designed-by           | Oğuzhan Yıldırım   | Executed-by    |   |
| Design date           | 24.05.2025   | Execution date |   |

Test Execution Steps:

| S.No | Action  | Inputs                       | Expected Output  | Actual Output | Test Environment | Test Result | Test Comments |
|------|---|------------------------------|--|---------------|------------------|-------------|---------------|
| 1    | Click to the "Graduation Approval" button in sidebar. | "Graduation Approval" button | Departments secretariats who do not approve their students and students whose department secretariat approve them are displayed separately |               |                  |             |               |
| 2    | Click the button that selects all students            | Select all students button   | All students are selected in the list.   |               |                  |             |               |
| 3    | Click the "Approve Selected" button.                  | "Approve Selected" button    | All students approved, removed from Approval List and "No students requiring approval found." message displayed.                           |               |                  |             |               |

**18) Student Affairs Approves Eligible Students**

This section covers test scenarios for student affairs approving eligible students in the Graduation Management System (GMS).

### Test Scenario 1: Student Affairs Checks Eligible Students

This scenario tests the retrieval and display of eligible students for an student affairs.

Project Name: Graduation Management System (GMS)

#### Test Case 1.1

|                       |  |                |  |
|-----------------------|--|----------------|--|
| Test Scenario ID      | STUAFF-APPROVE   | Test Case ID   | STUAFF-APPROVE - 01  |
| Test Case Description | Student Affair Successfully Views Eligible Students  | Test Priority  | High   |
| Pre-Requisite         | 1. Student affair is logged in.<br>2. Eligible students have been initialized in the system. | Post-Requisite | Student affair can check a list of eligible students assigned to them. |
| Designed-by           | Oğuzhan Yıldırım   | Executed-by    |  |
| Design date           | 24.05.2025   | Execution date |  |

#### Test Execution Steps:

| S.No | Action  | Inputs                       | Expected Output  | Actual Output | Test Environment | Test Result | Test Comments |
|------|---|------------------------------|--|---------------|------------------|-------------|---------------|
| 1    | Click to the "Graduation Approval" button in sidebar. | "Graduation Approval" button | Faculty secretariats who do not approve their students and students whose faculty secretariats approve them are displayed separately |               |                  |             |               |
| 2    | Click to the "Transcript" button                      | "Transcript" button          | Student's academic transcript displayed.   |               |                  |             |               |
| 3    | Click to the "Go Back" button                         | "Go Back" button             | Previous student lists   |               |                  |             |               |

|   |   |                           |  |  |  |  |  |
|---|---|---------------------------|--|--|--|--|--|
|   |   |                           | shown again.   |  |  |  |  |
| 4 | Click to the check buttons next to students | Check button              | Button marked with a blue tick and "Approve Selected" button activated.          |  |  |  |  |
| 5 | Click to the "Approve Selected" button      | "Approve Selected" button | The selected student approved and removed from Student Graduation Approval List. |  |  |  |  |

### Test Scenario 2: Student Affairs Approves Multiple Students

This scenario tests the bulk approval of multiple eligible students by a faculty secretariat.

Project Name: Graduation Management System (GMS)

#### Test Case 2.1

|                       |  |                |   |
|-----------------------|--|----------------|---|
| Test Scenario ID      | STUAFF-APPROVE   | Test Case ID   | STUAFF-APPROVE - 02   |
| Test Case Description | Student Affairs Successfully Approves Multiple Students  | Test Priority  | High  |
| Pre-Requisite         | 1. Student affair is logged in.<br>2. Eligible students have been initialized in the system.<br>3. Student affair has students assigned to them. | Post-Requisite | Student affairs can check a list of eligible students assigned to them. |
| Designed-by           | Oğuzhan Yıldırım   | Executed-by    |   |
| Design date           | 24.05.2025   | Execution date |   |

Test Execution Steps:

| S.No | Action  | Inputs                       | Expected Output   | Actual Output | Test Environment | Test Result | Test Comments |
|------|---|------------------------------|---|---------------|------------------|-------------|---------------|
| 1    | Click to the "Graduation Approval" button in sidebar. | "Graduation Approval" button | Faculty secretariats who do not approve their students and students whose faculty secretariat approve them are displayed separately |               |                  |             |               |
| 2    | Click the button that selects all students            | Select all students button   | All students are selected in the list.  |               |                  |             |               |
| 3    | Click the "Approve Selected" button.                  | "Approve Selected" button    | All students approved, removed from Approval List and "No students requiring approval found." message displayed.                    |               |                  |             |               |

### 19) Logout from the System

This section covers test scenarios for the logout functionality.

#### Test Scenario 1: Successful Logout

This scenario tests the successful logout flow for all user types.

Project Name: Graduation Management System (GMS)

### Test Case 1.1

|                       |   |                |                                       |
|-----------------------|---|----------------|---------------------------------------|
| Test Scenario ID      | LOGOUT  | Test Case ID   | LOGOUT-01                             |
| Test Case Description | Successful Login - Student  | Test Priority  | High                                  |
| Pre-Requisite         | 1. User is already logged into the system.<br>2. A valid student user account exists in UBYs. | Post-Requisite | User is redirected to the login page. |
| Designed-by           | Mete Akin Akdoğan   | Executed-by    |                                       |
| Design date           | 25.05.2025  | Execution date |                                       |

### Test Execution Steps:

| S.No | Action  | Inputs          | Expected Output   | Actual Output | Test Environment | Test Result | Test Comments |
|------|---|-----------------|---|---------------|------------------|-------------|---------------|
| 1    | User clicks on the "Logout" button from sidebar | "Logout" button | User is logged out and redirected to login page , session is destroyed. |               |                  |             |               |