

# ÇANKAYA UNIVERSITY FACULTY OF ENGINEERING

**COMPUTER ENGINEERING DEPARTMENT**

**Test Plan, Test Design Specifications and Test Cases**

**Version 1**

**CENG 408**

Innovative System Design and Development II

**ANKADES EDUCATIONAL SOCIAL**

**SHARING PLATFORM**

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# INTRODUCTION

## Version Control

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| **Version No** | **Description of Changes** | **Date** |
| 1.0 | First Version | 3 March 2020 |

## Overview

The use case of the ANKADES Educational Social Sharing Platform, users name as staff and admin which had been determined in SDD & SRS document will be tested.

## Scope

This document encapsulates the test plan of the use cases, test design specifications and the test cases correspond to test plan.

## Terminology

|  |  |
| --- | --- |
| **Acronym** | **Definition** |
| UI | User Interface |
| AM | Admin Mode |
| MM | Moderator Mode |
| TM | Teacher Mode |

# FEATURES TO BE TESTED

This section lists and gives a brief description of all the major features to be tested. For each major feature there will be a Test Design Specification added at the end of this document.

## User Interface (UI)

In project, user interface components are used. The UI part is divided into admin page and edit page. Every part of the UI also includes smaller parts. UI part includes testing of the functions of UI components which are used in the project such as buttons, panel, text, images,etc.

## Admin Mode (AM)

This part includes test cases and test plan of Admin Mode. Admin Mode includes buttons such as register a staff, asset operations like, add, remove and update contents, list of all users. Testing of the stated requirements will occur in this document.

## Moderator Mode & Teacher Mode (MM & TM )

This part includes test cases and test plan of Staff Mode. Staff Mode includes buttons such as list of all article page. Also, editing user details, article , question and Testing of the stated requirements will occur in this document.

# ITEM PASS/FAIL CRITERIA

## Exit Criteria

* 100% of the test cases are executed
* 99.9% of the test cases passed
* All High and Medium Priority test cases passed

# TEST DESIGN SPECIFICATIONS

## User Interface (UI)

### Sub-features to be tested

## Login Button

Admin or staff can enter to system with selecting “Login” button. After login button selected, displayed admin page or index page.

## Sign-Up Button

The User selecting Sign-Up Button shows the registering page and filling personal details before the clicking sign up button.

## Register Staff Button

After pressing this button, the admin will be redirect to the register staff page.

## Add Staff Button

After the necessary fields are fill in the staff registration page, this button is pressed and the registration process is completed.

## Asset Operations Button

After this button is pressed, options related to asset operations are open.

## 

## Asset Operations Button – Add Asset Button

Clicking this button will redirect to the asset add page.

## Asset Operations Button – Remove Asset Button

Clicking this button will redirect to the asset remove page.

## Asset Operations Button – Create Asset Button

Clicking this button will redirect to the asset create page.

## List All Assets Button

When the button clicked, all assets and assets pieces are list.

## Exit Button

Clicking this button will end the user's session.

### Test Cases

|  |  |  |  |
| --- | --- | --- | --- |
| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| LGN\_BTN.  01 | 3.2.1 | H | Select “LOGIN” button. After selecting, user page will be displayed. |

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| --- | --- | --- | --- |
| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| UI\_SIGN\_BTN.  01 | 3.2.1 | L | Select “Sign Up” button. After selecting, the user will be redirected to the staff adding page. |

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| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| UI. ADPR\_BTN.01 | 3.2.1 | H | Select “Permission” button. After selecting, the user will be added by admin. |

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| --- | --- | --- | --- |
| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| UI. PNL\_BTN.01 | 3.2.1 | L | Select “Panel ” button. After selecting, the admin or moderator will be redirected to the admin panel operations page. |

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| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| UI.AMADDPRM  \_BTN.01 | 3.2.2 | L | Select “Add Permission” button. After selecting, The admin will be redirected to the user permissions page. |

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| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| UI. AMRMV\_BTN | 3.2.2 | L | Select “Remove Course” button. After selecting, The user will be redirected to the asset removing page. |

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| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| UI.AMCRT\_BTN | 3.2.2 | L | Select “Course Create”. After selecting, The admin will be redirected to the course creating page. |

|  |  |  |  |
| --- | --- | --- | --- |
| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| UI.LAAP\_BTN | 3.2.2 | L | Select “List All Permissions” button. After selecting, The admin will be redirected to the permission listing page. |

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| --- | --- | --- | --- |
| **TC ID** | **Requirements** | **Priority** | **Scenario Description** |
| UI. EXT\_BTTN.01 | 3.2.3 | L | Select “Exit” button. After selecting, The user will be out of the system. |

1. **Detailed Test Cases**

**Register User Role Page**

**Name:** Register a User Role Page

**Description:** There is one button and some text boxes. Admin enters the fields like name, surname, username and password. After finishing this, admin clicks the register button.

**Actor:** Admin

**Precondition:** None

**Operations:** Admin enter the fields then click the register button.

**Arguments:** Fields of registered staff.

**Returns:** None

**Pre-condition:** Click the ‘Register a Staff’ page button.

**Post-condition:** New staff registered successfully.

**Exceptions:** If staff has already existing or the fields are empty, web page gives an error message.

**Basic Sequence:**

**1.** Admin enters the fields.

**2.** Admin clicks the register button.

**Exception:** Internet and database connection can be fail.

**Post Conditions:**None

**Priority:** Low

**Login Page**

**Name:** Login Page

**Description:**When admin enter their usernames and passwords or a registered member click the login button, system directs the form pages according to the type of user. This page is Login Page.

**Actor:**  Admin, Member

**Precondition:** Admin and member must open the web site.

**Operations:** If valid username and password has typed, member and admin can login..

**Arguments:** Username and password.

**Returns:**If login fails gives an error message.

**Pre-condition:** Click the ‘Login’ button.

**Post-condition:** Login is successfully.

**Exceptions**: If username or password is wrong, admin and member cannot login and web page gives an error message.

**Basic Sequence:**

**1.** Member must register to system by admin if s/he doesn’t have an account.

**2.** Member shall login to the system by entering his/her username and password.

**3.** System directs the form pages according to the type of user.

**Exception:** Internet and database connection can be fail.

**Post Conditions:**None

**Priority:** High

**Admin Page**

**Name:** Admin Page

**Description:** There are some buttons named as register a admin, list of all courses, show courses, add an course, update a course, list of all questions, show questions , update questions , add questions, add article , edit article  , show all article ,update article, update user information, logout. By clicking these buttons, system directs the admin to form pages.

**Actor:** Admin

**Precondition:** Admin must be login.

**Operations:** Admin can reach other form pages with clicking buttons.

**Arguments:** None

**Returns:** None

**Pre-condition:** Click the button.

**Post-condition:** None

**Exceptions:** If clicked form page does not exist, admin cannot reach that form pages, and web page gives an error message.

**Basic Sequence:**

**1.** Admin clicks the button.

**2.** System directs the form pages according to the clicked button.

**Exception:** Internet and database connection can be fail.

**Post Conditions:**None

**Priority:** High

**Create a Component (Course,Quiz,Article,Question,Comment)**

**Name:** Create a Component Page

**Description:** There is a button, three dropdown lists and file uploader. Admin or member choose the block, component and upload new plan. After finishing this, admin or member click the create button.

**Actor:** Admin, Member

**Precondition:** If the plan of the component changed.

**Operations:** Admin or member can update a component plan.

**Arguments:** None

**Returns:** None

**Pre-condition:** Click the ‘Create a Couse’ page.

**Post-condition:** Course created successfully.

**Exceptions:** If database connection failed, web page gives an error message.

**Basic Sequence:**

1. Admin or member click the ‘Create a Couse’ button in the form page.
2. Admin or member choose a block, compoent and create the new plan.

**Exception:** Internet and database connection can be fail.

**Post Conditions:**None

**Priority:** Middle

**Update Component Page(Course,Quiz,Article,Question,Comment)**

**Name:** Update Component Page

**Description:** There is a button, three dropdown lists and file uploader. Admin or member choose the block, component upload new plan. After finishing this, admin clicks the update button.

**Actor:** Admin, Member

**Precondition:** If the plan of the component changed.

**Operations:** Admin can update a component plan.

**Arguments:** Component

**Returns:** Component

**Pre-condition:** Click the ‘Update a Component’ page.

**Post-condition:** Component updated successfully.

**Exceptions:** If database connection failed, web page gives an error message.

**Basic Sequence:**

1. Admin or member click the ‘Update a Component’ button in the form page.
2. Admin or member choose a block, component and upload the new plan.

**Exception:** Internet and database connection can be fail.

**Post Conditions:**None

**Priority:** Middle

**Delete Component Page(Course,Quiz,Article,Question,Comment)**

**Name:** Delete Component Page

**Description:** Admin or member select component. After finishing selection, admin or member click the delete button.

**Actor:** Admin, Member

**Precondition:** Item must be selected.

**Operations:** Admin or member can delete a component.

**Arguments:** Component

**Returns:** None

**Pre-condition:** Click the ‘Delete a Component’ page.

**Post-condition:** Component deleted successfully.

**Exceptions:** If database connection failed, web page gives an error message.

**Basic Sequence:**

1. Admin or member click the ‘Delete a Component’ button in the form page.
2. Admin or member choose component , delete component.

**Exception:** Internet and database connection can be fail.

**Post Conditions:**None

**Priority:** Middle

**Update User Information**

**Name:** Update User Information Page

**Description:**When member or admin want to change their information like username, passwords and room then, clicks the update button.

**Actor:** Admin, Member.

**Precondition:** Admin or member shall be login.

**Operations:** User changed his/her information then click the update button.

**Arguments:** Fields for change.

**Returns:**None

**Pre-condition:** None

**Post-condition:** Updated successful.

**Exceptions**: If database connection failed or the fields are empty, web page gives an error message.

**Basic Sequence:**

1. User enter the fields.
2. User clicks the update button.

**Exception:** Internet and database connection can be fail.

**Post Conditions:**None

**Priority:** Low