Test Design Specification

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This test design specification will demonstrate and test all the available button and function within the xMenAcademy website. We will be extensively testing from both admin interface and the user interface to make sure everything is working properly. Below, we will be conducting various type of test and the result for each test cases.

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**1 Introduction**

This document provides all the test documentation that will be tested including white box testing, black box testing, integration test any many more. For each test cases, we will guide you through all the specific steps and record all the result to the items that were tested.

**2 Test Objective**

The objective for this test is to provide a test plan and all the necessary information in order to perform the tests. By doing so, we hope to minimize the error and improving on our products if any fault occurs. This will help us to stay on track and see our progress while doing the project. The tester will run the test through all the cases and scenarios; and the test result will be recorded and reported back to the developer to adjust and fix any bug within the code.

**3 Detailed Testing Strategy**

**3.1 Unit Testing**

Unit testing will be done within the code to check any logic errors or any bugs. Making sure every function is working as intended and to see all the database is link correctly to the main page.

**3.1.1 White box Testing**

In white box testing, we will be testing both input and output of the code. This test will only focus on the code and structure instead of the functionality of it. We will be testing each function individually and this will be done by the development/tester team.

**3.1.2 Test Cases**

**3.1.3 [C001] Homepage**

|  |  |
| --- | --- |
| [ID] Name | [C001] Homepage |
| Summary | The homepage of xMenAcademy |
| Items to be tested | The link that will take you to the site |
| Users | All users |
| Pre-conditions | The user must have internet |
| Basic course of events | 1. The user will click on the link or type in the website |
| Input | N/A |
| Expected output | The homepage will appear with a welcome message, a video, and a login button |

**3.1.4 [C002] Sign in Button**

|  |  |
| --- | --- |
| [ID] Name | [C002] Sign in Button |
| Summary | This button will lead to another page where you can login with your information |
| Items to be tested | The sign button that will take you to another page |
| Users | All users |
| Pre-conditions | The user is on the homepage |
| Basic course of events | 1. The user will click on the sign in button on the top right corner or the middle |
| Input | N/A |
| Expected output | The login button will lead you to another page where you input your credentials |

**3.1.5 [C003] XmenAcademy User Submit**

|  |  |
| --- | --- |
| [ID] Name | [C003] XmenAcademy User Submit |
| Summary | Users login to access their personal information |
| Items to be tested | The submit button that will take the users to their dashboard |
| Users | All users |
| Pre-conditions | 1. The user is at the sign in page 2. The user must have an account already |
| Basic course of events | 1. The user will input their personal information 2. After inputting the information, the user will hit the submit button |
| Input | 1. Username 2. Password |
| Expected output | After inputting the correct credentials, it will lead you to your personal page/dashboard |

**3.1.6 [C004] Administrator “Create Course” Button**

|  |  |
| --- | --- |
| [ID] Name | [C004] Administrator “Create Course” Button |
| Summary | This button will lead you to another page where you can submit and create your courses |
| Items to be tested | The button that will lead you to a different page (Create Course) |
| Users | Administrator |
| Pre-conditions | The user is on administrator dashboard |
| Basic course of events | 1. The user will click on the button “Create Course” on top left corner |
| Input | N/A |
| Expected output | The button will take you to a “Create Course” page where you can input the courses information |

**3.1.7 [C005] Administrator “Create Course” Tab**

|  |  |
| --- | --- |
| [ID] Name | [C005] Administrator “Create Course” Tab |
| Summary | This page will create and save your courses information into the database for later use |
| Items to be tested | Submit button in “Create Course” tab |
| Users | Administrator |
| Pre-conditions | 1. The user is an administrator 2. The user is on the “Create Course” tab after pressing the “Create Course” Button |
| Basic course of events | 1. The user will input the information 2. After inputting the information, the user will hit the submit button |
| Input | 1. Course Name 2. Course Description |
| Expected output | The course will be saved in the database with an assigned number (ID) attached to it. The information will also display in the administrator dashboard |

**3.1.8 [C006] Administrator “Teacher Course Registration” Button**

|  |  |
| --- | --- |
| [ID] Name | [C006] Administrator “Teacher Course Registration” Button |
| Summary | This button will lead you to another page where you can assign the teacher to the corresponding course |
| Items to be tested | The button that will lead you to a different page (Teacher Course Registration) |
| Users | Administrator |
| Pre-conditions | The user is on administrator dashboard |
| Basic course of events | 1. The users will click on the button “Teacher Course Registration” on top left corner |
| Input | N/A |
| Expected output | The button will take you to a “Teacher Create Course” page where you can input the course and teacher information |

**3.1.9 [C007] Administrator “Teacher Course Registration” Tab**

|  |  |
| --- | --- |
| [ID] Name | [C007] Administrator “Teacher Course Registration” Tab |
| Summary | This page will create and assign the teacher to a specific course into the database for later use |
| Items to be tested | Submit button in “Teacher Course Registration” tab |
| Users | Administrator |
| Pre-conditions | 1. The user is an administrator 2. The user is on the “Teacher Course Registration” tab after pressing the “Teacher Course Registration” Button |
| Basic course of events | 1. The user will input the information 2. After inputting the information, the user will hit the submit button |
| Input | 1. Course Catalog ID 2. Teacher ID 3. Semester |
| Expected output | The course will be assigned to the teacher through ID into the database. The information will also display in the administrator dashboard |

**3.1.10 [C008] Administrator “Student Course Registration” Button**

|  |  |
| --- | --- |
| [ID] Name | [C008] Administrator “Student Course Registration” Button |
| Summary | This button will lead you to another page where you can assign the student to the corresponding course |
| Items to be tested | The button that will lead you to a different page (Student Course Registration) |
| Users | Administrator |
| Pre-conditions | The user is on administrator dashboard |
| Basic course of events | 1. The users will click on the button “Student Course Registration” on top left corner |
| Input | N/A |
| Expected output | The button will take you to a “Student Course Registration” page where you can input the student and course information |

**3.1.11 [C009] Administrator “Student Course Registration” Tab**

|  |  |
| --- | --- |
| [ID] Name | [C009] Administrator “Student Course Registration” Tab |
| Summary | This page will create and assign the student to a specific course into the database for later use |
| Items to be tested | Submit button in “Student Course Registration” tab |
| Users | Administrator |
| Pre-conditions | 1. The user is an administrator 2. The user is on the “Student Course Registration” tab after pressing the “Student Course Registration” Button |
| Basic course of events | 1. The user will input the information 2. After inputting the information, the user will hit the submit button |
| Input | 1. Course Catalog ID 2. Student ID |
| Expected output | The course will be assigned to the student through ID into the database. The information will also display in the administrator dashboard |

**3.1.12 [C010] Administrator “User Registration” Button**

|  |  |
| --- | --- |
| [ID] Name | [C010] Administrator “User Registration” Button |
| Summary | This button will lead you to another page where you can register a student in the system |
| Items to be tested | The button that will lead you to a different page (User Registration) |
| Users | Administrator |
| Pre-conditions | The user is on administrator dashboard |
| Basic course of events | 1. The users will click on the button “User Registration” on top left corner |
| Input | N/A |
| Expected output | The button will take you to a “User Registration” page where you can input the student information |

**3.1.13 [C0011] Administrator “User Registration” Tab**

|  |  |
| --- | --- |
| [ID] Name | [C011] Administrator “User Registration” Tab |
| Summary | This page will create and save new user information into the database for later use |
| Items to be tested | Submit button in “User Registration” tab |
| Users | Administrator |
| Pre-conditions | 1. The user is an administrator 2. The user is on the “User Registration” tab after pressing the “User Registration” Button |
| Basic course of events | 1. The user will input the information 2. After inputting the information, the user will hit the submit button |
| Input | 1. First Name 2. Last Name 3. Email 4. Username 5. Role |
| Expected output | The new user (admin/student/teacher) will be saved in the database with an assigned number (ID) attached to it. The information will also display in the administrator dashboard |

**3.1.14 [C0012] Administrator “User Registration” Roles**

|  |  |
| --- | --- |
| [ID] Name | [C012] Administrator “User Registration” Roles |
| Summary | By selecting the roles (admin/teacher/student) the program will know which table it should assign the user to while inside the database |
| Items to be tested | The “role” tab drop-down menu |
| Users | Administrator |
| Pre-conditions | 1. The user is an administrator 2. The user is on the “User Registration” tab after pressing the “User Registration” Button 3. The user must have all the information in “User Registration” tab fill in |
| Basic course of events | 1. The user opens the drop-down menu in “roles” 2. The user will select either teacher, student, or admin |
| Input | N/A |
| Expected output | By assigning the role, the computer will generate an ID and put the corresponding user into the correct table in the database |

**4 Pass/Fail Criteria**

**5 References**

**No class limit**

**Cant keep track of course availability**