**Test Plan**

**CMSC 495 #6380**

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**Group #5**

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**Contents**

[**Revision History** 2](#_Toc51504398)

[**Test Plan for Martial Arts Attendance Tracking Application** 3](#_Toc51504399)

# **Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Revisor** | **Changes made** |
| 1.0 | 9/20/20 | Nicholas Crown | Initial creation of document, including title page, table of contents page, and revision history table. |
| 1.1 | 9/22/20 | David Roberts | Added test plan table and test case 7. |
| 1.1.1 | 9/22/20 | Nicholas Crown | Updated and edited test plan table. Added test cases 1-6, 8. |
| 1.2 | 9/22/20 | David Roberts | Added test cases 9-17. |
| 1.2.1 | 9/22/20 | Nicholas Crown | Updated and edited test plans table. Changed wording on multiple test cases and associations to updated requirements document. |

# **Test Plan for Martial Arts Attendance Tracking Application**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Case Number** | **Requirement number** | **Test Description** | **Expected result** | **Actual result** | **Pass /Fail** |
| 1 | 1,2,3 | The user supplies a correct username and password to the login form and clicks submit. | The username is queried to the database for existing users by the Login subsystem. The hashed password value associated to the username is returned by the database and sent to the Authentication subsystem. The supplied password is hashed by the Login subsystem and sent to the Authentication where the two hashed password values are compared. A session starts and the user is authenticated and redirected to the calendar. |  |  |
| 2 | 1,4 | The user has logged in and is on the calendar screen. | The calendar displays the current month. Queries are made to the database for class and account information for the selected month. Classes are displayed as time blocks on the calendar days. Active students, new students for the current month, number of inactive students for the current month, and number of active classes are displayed. |  |  |
| 3 | 11 | The logged in user clicks the logout function. | The session ends and the user no longer has access to the calendar, classes, attendance, and account subsystems. |  |  |
| 4 | 1,2 | The user supplies a correct username and incorrect password to the login form and clicks submit. | The username is queried to the database for existing users by the Login subsystem. The hashed password value associated to the username is returned by the database and sent to the Authentication subsystem. The supplied password is hashed by the Login subsystem and sent to the Authentication where the two hashed password values are compared. The Authentication subsystem returns that the credentials are incorrect. The Login subsystem displays an error message displaying an unsuccessful login attempt. |  |  |
| 5 | 1,2 | The user supplies a username and password not in the database. | The username is queried to the database for existing users by the Login subsystem. The database returns that no record exists. The Login subsystem displays an error message displaying an unsuccessful login attempt. |  |  |
| 6 | 1,6,10 | After logging into the system, select Add/Modify Account. Select to create a new account and fill out fields for first name, last name, belt rank, birthdate, phone number, address, parental info, email, account type, active status. | The Account subsystem queries the database for the last used AccountID and then adds a 1. The account information is added to the database with the supplied fields with the AccountID+1 value. It now displays updated information for each of the supplied fields. |  |  |
| 7 | 1, 6 | After logging into the system, select Add/Modify Account. Select an existing account that has been pulled from the database and edit fields for first name, last name, belt rank, birthdate, phone number, address, parental info, email, account type, active status. | The account information is updated in the database with the modified fields. It now displays updated information for each of the changed fields. |  |  |
| 8 | 1,6 | After logging into the system, select Add/Modify Account. Select an existing account that has been pulled from the database and select to delete the record. | The account information is deleted from the database while retaining the AccountID as a placeholder. |  |  |
| 9 | 1,7,10 | After logging into the system, select Add/Modify Class. Select to add a new class, and fill out the fields for name, date, starting time, and ending time. | The Class subsystem queries the database for the last used ClassID and then adds a 1. The class information is added to the database with the supplied fields with the ClassID+1 value. A new class is created and added to the database. The new class is displayed in the class view. |  |  |
| 10 | 1, 7 | After logging into the system, select Add/Modify Class. Select to modify an existing class, and change the fields for name, date, starting time, and ending time. | The existing class is updated in the database. The new information is displayed in the class view. |  |  |
| 11 | 1,7 | After logging into the system, select Add/Modify Class. Select to delete an existing class. | The information is deleted from the class record in the database, while retaining the class ID as a placeholder. |  |  |
| 12 | 1,4,5 | After logging into the system, select the arrow to change the month on the calendar view. | The calendar view updates to show the information stored for the previous month. |  |  |
| 13 | 1,12 | After logging into the system, select Attendance. User selects a class and selects instructors and students to add to the class from the interface and clicks submit. | The class attendance information is updated in the database within the Instructor and Students fields to log attendance. It now displays current attendance of the specified class. |  |  |
| 14 | 1,14 | After logging into the system, select Attendance. User selects a class with attendance already taken. User selects and deselects instructors and students to add and remove from the class from the interface and clicks submit. | The class attendance information is updated in the database within the Instructor and Students fields, overwriting the previous data. It now displays current attendance of the specified class. |  |  |
| 15 | 1,13 | After logging into the system, select Attendance. User selects a class and selects to export attendance record. | Attendance subsystem queries the database for specified class record and exports roster of students and instructors in attendance to a formatted file. |  |  |
| 16 | 1,8 | After logging into the system, select Add/Modify Account. User selects to export account list. | Add/Modify Account subsystem queries the database for all Account records. A list of accounts with account ID, first and last name, belt rank, birthdate, phone number, address, Parental Control, Email, Account Type, active status, and usernames is output to a formatted file. |  |  |
| 17 | 1,9 | After logging into the system, select Add/Modify Class. User selects to export class list. | Add/Modify Class subsystem queries the database for all Class records. A list of classes with name, date, starting time, and ending time is output to a formatted file. |  |  |