**Testing**

**CMSC 495 #6380**

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**Group #5**

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# **Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Revisor** | **Changes made** |
| 1.0 | 10/11/2020 | Nicholas Crown | Performed testing and updated test cases from test plan with results. |

# **Test Results 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 and password are passed from the login form/subsystem to the authentication subsystem. The authentication subsystem compares the username to the database and returns the password hash associated. The supplied password is then compared against the password hash value as true and the user starts a session and is redirected to the calendar. | The username and password are passed from the login form/subsystem to the authentication subsystem. The authentication subsystem compares the username to the database and returns the password hash associated. The supplied password is then compared against the password hash value as true and the user starts a session and is redirected to the calendar. | Pass |
| 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. | The calendar displays the current month. Classes are not displayed as time blocks on the calendar days. Active students, new students, inactive students, and active classes are not displayed. | Fail |
| 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. | The session ends and the user no longer has access to the calendar, classes, attendance, and account subsystems. | Pass |
| 4 | 1, 2 | The user supplies a correct username and incorrect password to the login form and clicks submit. | The username and password are passed from the login form/subsystem to the authentication subsystem. The authentication subsystem compares the username to the database and returns the password hash associated. The supplied password is then compared against the password hash value as false. The Login subsystem displays an error message displaying an unsuccessful login attempt. | The username and password are passed from the login form/subsystem to the authentication subsystem. The authentication subsystem compares the username to the database and returns the password hash associated. The supplied password is then compared against the password hash value as false. The Login subsystem displays an error message displaying an unsuccessful login attempt. | Pass |
| 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 the user supplied incorrect credentials. The Login subsystem displays an error message displaying an unsuccessful login attempt. | The username is queried to the database for existing users by the Login subsystem. The database returns that the user supplied incorrect credentials. The Login subsystem displays an error message displaying an unsuccessful login attempt. | Pass |
| 6 | 1, 6, 10 | After logging into the system, select to add account. Fill out all fields with a unique first name and last name combination, belt rank, birthdate, phone number, address, parental info, email, and account type as instructor with a unique username and password. | The account information is added to the database with the supplied fields with the AccountID value is auto incremented by the database. | The account information is added to the database with the supplied fields with the AccountID value is auto incremented by the database. | Pass |
| 7 | 1, 6 ,10 | After logging into the system, select to add account. Fill out required fields, supplying a unique first name and last name combination. | The account information is added to the database with the supplied fields with the AccountID value is auto incremented by the database. | The account information is added to the database with the supplied fields with the AccountID value is auto incremented by the database. | Pass |
| 8 | 1, 6, 10, 15 | After logging into the system, select to add account. Fill out required fields, supplying a first name and last name combination already in the database | The system informs the user that an account with that first and last name combination exists. If the user approves the new account, the account information is added to the database with the supplied fields with the AccountID value is auto incremented by the database. If the user cancels adding the user, the account information is not added. | The system informs the user that an account with that first and last name combination exists. If the user approves the new account, the account information is added to the database with the supplied fields with the AccountID value is auto incremented by the database. If the user cancels adding the user, the account information is not added. | Pass |
| 9 | 1, 6 | After logging into the system, select modify account. Select an existing account that has been pulled from the database and edit fields for a unique first name and last name combination, belt rank, birthdate, phone number, address, parental info, email, account type, unique username, password, and active status. | The account information is updated in the database with the supplied fields with the AccountID value matching the record. | The account information is updated in the database with the supplied fields with the AccountID value matching the record. | Pass |
| 10 | 1, 6, 15 | After logging into the system, select modify account. Select an existing account that has been pulled from the database. Add a username that already exists in the database. | The system queries the database for existing usernames and returns an error that the supplied username already exists. | The system queries the database for existing usernames and returns an error that the supplied username already exists. | Pass |
| 11 | 1, 6 ,15 | After logging into the system, select modify account. Select an existing account that has been pulled from the database. Add a first name and last name combination that already exists in the database. | The system informs the user that an account with that first and last name combination exists. If the user approves to modify the account, the account information is modified in the database with the associated AccountID value. If the user cancels modfying the user, the account information is not changed. | The system informs the user that an account with that first and last name combination exists. If the user approves to modify the account, the account information is modified in the database with the associated AccountID value. If the user cancels modfying the user, the account information is not changed. | Pass |
| 12 | 1, 6 | After logging into the system, select 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. | The account information is deleted from the database. | Pass |
| 13 | 1, 7, 10 | After logging into the system, select to add class. Fill out the fields for name, date, starting time, and ending time. | The class information is added to the database with the supplied fields with the database auto incrementing the ClassID value. | The class information is added to the database with the supplied fields with the database auto incrementing the ClassID value. | Pass |
| 14 | 1, 7, 10, 15 | After logging into the system, select to add class. Fill out the fields for name, date, starting time, and ending time with a date and starting time of an existing class. | The system informs the user that a class with that date and start time combination exists. If the user approves to modify the account, the class information is added to the database with the supplied fields with the database auto incrementing the ClassID value. If the user cancels adding the class, the class information is not added. | The system informs the user that a class with that date and start time combination exists. If the user approves to modify the account, the class information is added to the database with the supplied fields with the database auto incrementing the ClassID value. If the user cancels adding the class, the class information is not added. | Pass |
| 15 | 1, 7 | After logging into the system, select to modify a class. Change the fields for name, date, starting time, and ending time with unique a unique date and start time combination. | The class information is updated in the database with the supplied fields associated to the ClassID value. | The class information is updated in the database with the supplied fields associated to the ClassID value. | Pass |
| 16 | 1, 7, 15 | After logging into the system, select to modify a class. Change the fields for name, date, starting time, and ending time with a date and starting time of an existing class. | The system informs the user that a class with that date and start time combination exists. If the user approves to modify the account, the class information is added to the database with the supplied fields associated to the ClassID value. If the user cancels adding the class, the class information is not added. | The system informs the user that a class with that date and start time combination exists. If the user approves to modify the account, the class information is added to the database with the supplied fields associated to the ClassID value. If the user cancels adding the class, the class information is not added. | Pass |
| 17 | 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. | The information is deleted from the class record in the database. | Pass |
| 18 | 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. | The calendar does not change months and display information for that month. | Fail |
| 19 | 1, 12, 14 | After logging into the system, select to modify class. User selects a class and clicks to modify the attendance. User adds instructors and students 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. | The attendance function does not update the class record with the current attendees selected. | Fail |

# **Test Summary**

Total tests: 19 Passed: 16 Failed: 3 Pass %: 84.2%

# **Future Feature Tests for Martial Arts Attendance Tracking Application**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Case Number** | **Requirement number** | **Test Description** | **Expected result** | **Actual result** | **Pass /Fail** |
| 20 | 1, 13 | After logging into the system, user selects to export a class attendance record. | Attendance subsystem queries the database for specified class record and exports roster of students and instructors in attendance to a formatted file. | This feature was not implemented and is part of future features. | \* |
| 21 | 1, 8 | After logging into the system, 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. | This feature was not implemented and is part of future features. | \* |
| 22 | 1, 9 | After logging into the system, 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. | This feature was not implemented and is part of future features. | \* |