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| Project: | | MyMav Mobile | | | |
| Team: | | Phi | | | |
| Class: | | CSE 3310; Spring 2015 | | | |
| Module: | | Test Plan | | | |
| Deliverable: | | Test Plan Document | | | |
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[www.StackOverflow.com](http://www.StackOverflow.com) – anonymous code examples

[www.Vogella.com](http://www.Vogella.com) – Database examples

**Revision History**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Version number*** | ***Date*** | ***Originator*** | ***Reason for change*** | ***High level description of changes*** |
| 1.0 | 4/20/2015 | Jose Caballero | Initial draft | Initial write up of test document |
| 1.1 | 4/23/2015 | Greg Wilkinson | Add Test Cases | Add in test cases for all tables |
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1. Introduction and Plan of Approach

**Project Overview**

Our objective is to design and develop an Android application with the functionality to create school schedules from the courses offered at UT Arlington. The application will primarily be used by UT Arlington students.

From the application, students will have the capability to create an account, delete an account, and log in or out of the application. Once logged into the system, students will be able to search for classes, add or drop classes, create/modify/delete schedule, view schedules, and verify schedules.

Proper memory management, battery usage management, and closure of the app is key, since the app should be functional and easy to navigate.

**Test Plan Overview**

* Test Login Screen
* Test Create New User
* Test Main Menu and Tray Navigation
* Test Profile Settings
* Test Search Class
* Test Create Schedule
* Test Delete Schedule
* Test Add Class
* Test Delete Class
* Test Block Out Time
* Test Verify Schedule

**Assumptions and Anomalies**

* The system is always connected to the internet

2. Test Cases: Login

**Project Name:** MyMav Mobile

**Test Case Name:** Login Screen Navigation

**Test Case Id**: CSE 3310/Spring 2015/Team Phi/Login

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case No.** | **Test Case Description** | **Expected results** | **Outcome**  **Pass, Fail, Other (comments)** |
| TC1 | Enter user's ID and password into the fields and tap Login Button | Double check with database of users, correct login, incorrect, display pop-up |  |
| TC2 | Enter user’s ID and leave password blank and tap login | System should ask to double check username and password |  |
| TC3 | Enter user’s Password and leave ID blank and tap login | System should ask to double check username and password |  |
| TC4 | Leave both user’s ID and password blank and tap login | System should ask to double check username and password |  |
| TC5 | Tap on Create User button to forward user on to the create user page | System should properly forward to the Create users page |  |

3. Test Cases: Create New User

**Project Name:** MyMav Mobile

**Test Case Name:** Create New User Navigation

**Test Case Id**: CSE 3310/Spring 2015/Team Phi/ Create\_New\_User

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case No.** | **Test Case Description** | **Expected results** | **Outcome**  **Pass, Fail, Other (comments)** |
| TC1 | User enters all information, username, full name, password, re-enter password, and email address and taps create user button | Checks with database to see if: user is not in database, username and password meets requirements, and no field is left blank. |  |
| TC3 | User enters all fields correctly but leaves the email address field blank and taps create user button | Displays a pop-up asking to double check information provided |  |
| TC4 | User enters all fields correctly but the password/verify password does not match and taps create user button | Displays a pop-up asking to double check information provided |  |
| TC5 | User enters all fields correctly but the name field is left blank and taps create user button | Displays a pop-up asking to double check information provided |  |
| TC6 | User enters all information correctly and taps create user button but the username is taken or user has already created the account | Display a pop-up saying that the username is taken or user has already created the account |  |
| TC7 | User does not want to create new user and taps cancel | Takes user back to the login screen |  |

4. Test Cases: Main Menu Tray Navigation

**Project Name:** MyMav Mobile

**Test Case Name:** Main Menu Navigation

**Test Case Id**: CSE 3310/Spring 2015/Team Phi/Main\_Menu\_Tray\_Navigation

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case No.** | **Test Case Description** | **Expected results** | **Outcome**  **Pass, Fail, Other (comments)** |
| TC1 | User taps Tray button | App remains at the home screen |  |
| TC2 | User taps the sign out button | App requests the database to log out the user, return user to login screen |  |
| TC3 | User taps the Schedule Management button | App moves user to the Schedule Management menu |  |
| TC4 | User taps the Class Management button | App moves the user to the Class Management menu |  |
| TC5 | User taps the Set time constraint button | App moves the user to the Set Time Constraint menu |  |
| TC6 | User taps the Search a Class button | App moves the user to the Search menu |  |
| TC7 | User taps the Profile Settings button | App moves the user to the Profile Settings menu |  |

5. Test Cases: Profile Settings

**Project Name:** MyMav Mobile

**Test Case Name:** Edit User

**Test Case Id**: CSE 3310/Spring 2015/Team Phi/Profile\_Settings

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case No.** | **Test Case Description** | **Expected results** | **Outcome**  **Pass, Fail, Other (comments)** |
| TC1 | User enters new first name and last name and taps submit changes button | App sends new information to the database and applies the desired changes to the account |  |
| TC2 | User enters new password and taps submit changes | App submits the new password only to the database and displays pop-up saying changes made |  |
| TC3 | User taps the delete user button | User is prompted by pop-up to delete user and related schedules or cancel, on cancel back to edit user, on delete remove all user information including stored schedules related to the user |  |
| TC4 | User taps tray button | Menu Tray is opened to allow user to select where to navigate to next |  |
| TC5 | User taps the sign out button | App requests the database to log out the user, return user to login screen |  |
| TC6 | User does not enter any new information and taps the submit changes button | App displays pop-up stating that no changes were submitted |  |

6. Test Cases: Search Classes

**Project Name:** MyMav Mobile

**Test Case Name:** Search Classes

**Test Case Id**: CSE 3310/Spring 2015/Team Phi/Search\_Classes

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case No.** | **Test Case Description** | **Expected results** | **Outcome**  **Pass, Fail, Other (comments)** |
| TC1 | Search by the course code by itself (ex. MATH, CSE, IE,) | Display on the screen all courses based on the code entered and pulled from the database |  |
| TC2 | Search by the course number by itself (ex. 82966, 84649, 85913) | Display all the courses based on the course number entered and pulled from the database |  |
| TC3 | Search by the course identifier by itself (ex. 2302, 2326, 3310) | Display all the courses based on the course number entered and pulled from the database |  |
| TC4 | Search by the course code and course number | Display all the courses based on the course code and course number entered and pulled from the database |  |
| TC5 | Search by the course code and course identifier | Display all the courses based on the course code and course identifier entered and pulled from the database |  |
| TC6 | Search by the course number and course identifier | Display all the courses based on the course number and course identifier entered and pulled from the database |  |
| TC7 | Search by a blank search with nothing entered into fields | Displays all courses in the database |  |
| TC8 | Search by course identifier, course code, and course number | Displays all courses based on the course identifier, course code, and course number entered and pulled from the database |  |
| TC9 | User taps home button | User is taken back to the main menu |  |
| TC10 | User taps the sign out button | App requests the database to log out the user, return user to login screen |  |

7. Test Cases: Create Schedule

**Project Name:**  MyMav Mobile

**Test Case Name:** Create Schedule

**Test Case Id**: CSE 3310/Spring 2015/Team Phi/Create\_Schedule\_Tab

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case No.** | **Test Case Description** | **Expected results** | **Outcome**  **Pass, Fail, Other (comments)** |
| TC1 | User enters a new name for the schedule and taps create new schedule button | Pop-up says that schedule has been created and asks if user wants the new schedule to be the active schedule |  |
| TC2 | User taps the menu tray button | App opens the menu tray |  |
| TC3 | User taps the sign out button | App requests the database to log out the user, return user to login screen |  |
| TC4 | User leaves the schedule name blank | Pop-up asks for the user to enter a name for the schedule |  |

8. Test Cases: Delete Schedule Tab

**Project Name:** MyMav Mobile

**Test Case Name:** Delete Schedule

**Test Case Id**: CSE3310/Spring 2014/Team Phi/Delete\_Schedule\_Tab

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case No.** | **Test Case Description** | **Expected results** | **Outcome**  **Pass, Fail, Other (comments)** |
| TC1 | User selects a schedule from the displayed list of schedules to delete | Pop-up asks for confirmation that the schedule should be deleted, yes the app deletes the schedule from the database, no the app returns to the delete schedule list |  |
| TC2 | User taps home button | User is taken back to the main menu |  |
| TC3 | User taps the sign out button | App requests the database to log out the user, return user to login screen |  |
| TC4 | App retrieves no schedule names because the user does not have any saved schedules | Pop-up alerts the user that there are no schedules available to delete and moves user back to the main menu |  |

9. Test Cases: Add Class Tab

**Project Name:** MyMav Mobile

**Test Case Name:** Add Class

**Test Case Id**: CSE3310/Spring 2014/Team Phi/Add\_Class\_Tab

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case No.** | **Test Case Description** | **Expected results** | **Outcome**  **Pass, Fail, Other (comments)** |
| TC1 | User has no active schedule | Pop-up asks the user to create or select a schedule first from the list displayed |  |
| TC2 | No schedules are available to list in the pop-up window | Show no available schedules to select instead of a blank list of schedules, ask user to create a schedule first |  |
| TC3 | If there is an active schedule user searches by the course code and number | Displays list of classes based on a search for the course code and number from the database and user can select from the list. Pop-up says class is already in schedule if selected class is in the schedule, otherwise class is added to the schedule |  |
| TC4 | If there is an active schedule user searches by the course code and the course identifier | Displays a list of classes based on a search for the course code and identifier from the database and user can select from the list. Pop-up says class is already in the schedule if selected class is in the schedule, otherwise class is added to the schedule |  |
| TC5 | If there is an active schedule user searches by course number and course identifier | Displays a list of classes based on a search for the course number and identifier from the database and user can select from the list. Pop-up says class is already in the schedule if selected class is in the schedule, otherwise class is added to the schedule |  |
| TC6 | If there is an active schedule user searches by the course code | Displays a list of classes based on a search for the course code from the database and user can select from the list. Pop-up says class is already in the schedule if selected class is in the schedule, otherwise class is added to the schedule |  |
| TC7 | If there is an active schedule user searches by the course number | Displays a list of classes based on a search for the course number from the database and user can select from the list. Pop-up says class is already in the schedule if selected class is in the schedule, otherwise class is added to the schedule |  |
| TC8 | If there is an active schedule user searches by the course identifier | Displays a list of classes based on a search for the course identifier from the database and user can select from the list. Pop-up says class is already in the schedule if selected class is in the schedule, otherwise class is added to the schedule |  |
| TC9 | If there is an active schedule user searches by the course code, course identifier, and course number | Displays a list of classes based on a search for the course code, course number, and course identifier from the database and user can select from the list. Pop-up says class is already in the schedule if selected class is in the schedule, otherwise class is added to the schedule |  |
| TC10 | User taps menu tray button | App opens the menu tray |  |
| TC11 | User taps the sign out button | App requests the database to log out the user, return user to login screen |  |

10. Test Cases: Delete Class Tab

**Project Name:** MyMav Mobile

**Test Case Name:** Delete Class

**Test Case Id**: CSE3310/Spring 2014/Team Phi/Delete\_Class\_Tab

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case No.** | **Test Case Description** | **Expected results** | **Outcome**  **Pass, Fail, Other (comments)** |
| TC1 | User has an active schedule and selects a class from the list of classes on the schedule | App removes the class from the schedule in the database and displays pop-up stating that the class has been removed |  |
| TC2 | User has an active schedule but there are no classes to remove | Pop-up stating that there are no classes to remove from the schedule |  |
| TC3 | There is no active schedule to delete from | Pop-up asking the user to select a class from the list in the pop up. |  |
| TC4 | User taps menu tray button | App opens the menu tray |  |
| TC5 | User taps the sign out button | App requests the database to log out the user, return user to login screen |  |

11. Test Cases: Block out time Tab

**Project Name:** MyMav Mobile

**Test Case Name:** Edit User – Block out time

**Test Case Id**: CSE3310/Spring 2014/Team Phi/Edit\_User\_Block\_out\_time\_Tab

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case No.** | **Test Case Description** | **Expected results** | **Outcome**  **Pass, Fail, Other (comments)** |
| TC1 | User enters a begin time, end time, and a day of the week to block out that time and taps the add to block out schedule time button | App sends request to add the requirement to the database and displays pop-up saying that changes have been saved if successful, otherwise say that requirement is already in the database |  |
| TC2 | User enters a begin time only and taps the add to block out schedule time button | Pop-up saying that there needs to be an end time and a weekday entered too |  |
| TC3 | User enters only an end time and taps the add to block out schedule time button | Pop-up saying that there needs to be a begin time and a weekday entered too |  |
| TC4 | User enters only a weekday to block out and taps the add to block out schedule time button | App requests to block out entire day from the schedule requirements |  |
| TC5 | User does not enter anything into the fields and taps the add to block out schedule time button | App displays pop-up saying that weekday alone or begin time, end time, and day needed to save requirement |  |
| TC6 | User taps menu tray button | App opens the menu tray |  |
| TC7 | User taps the sign out button | App requests the database to log out the user, return user to login screen |  |

12. Test Cases: Verify Schedule Tab

**Project Name:** MyMav Mobile

**Test Case Name:** Verify Schedule

**Test Case Id**: CSE3310/Spring 2014/Team Phi/Verify\_Schedule\_Tab

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case No.** | **Test Case Description** | **Expected results** | **Outcome**  **Pass, Fail, Other (comments)** |
| TC1 | User taps the Verify schedule button when there is an active schedule and classes in schedule | App iterates through each class on the schedule and checks the block out time in the database for conflicts. If no conflict iterate to next class otherwise display error I the list of errors on screen. If no errors found pop-up saying no issues found. |  |
| TC2 | There is no active schedule and user taps verify schedule | App displays pop-up asking user to select a schedule to use as active from list |  |
| TC3 | User taps the Verify schedule button when there is an active schedule but no classes are on the schedule | Pop-up is displayed asking users to add classes to the schedule first |  |
| TC4 | User taps the change schedule button | Pop-up displays a list of the available schedules to select from and user can select one to set as the active schedule |  |
| TC5 | User taps menu tray button | App opens the menu tray |  |
| TC6 | User taps the sign out button | App requests the database to log out the user, return user to login screen |  |