**Test Plan for SLAPs (Student Learning Access Portal)**

This document contains a list of test cases to be used on Student Learning Access Portal Interface (SLAP).

The basic operations present in the software are:

1. Credentials Validations

2. Project Creation and Editing

3. Account Creation

4. Account Editing

5. Evaluations and Submissions

6. Test Graphic User Interface and Navigation

These test cases for SLAPs are created for the following operation listed below. This is to ensure full system coverage revealing and fixing any located bugs.

**Part 1**

***1: Credentials Validation***

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| **Test Case ID** | **Purpose** | **Steps** | **Expected Result** |
| **1** | **Log in** |  |  |
| 1.1 | Valid Login Credentials | 1. Enter valid username & password.  2. Press enter or ‘login’ button to login | User Successfully logged in to the application. After login user’s SLAPs information is displayed. |
| 1.2 | Invalid Username | 1. Enter Invalid user name.  2. Enter Valid Password.  3. Press enter or ‘login’ button to login | Error message window displayed with  proper error message. Message may be  specific for 'Invalid user name' OR  generalized one as ' Invalid user name OR  password'. |
| 1.3 | Invalid Password | 1. Enter Valid user name.  2. Enter Invalid Password.  3. Press enter or ‘login’ button to login | Error message window displayed with  proper error message. Message may be  specific for 'Invalid password' OR  generalized one as ' Invalid user name OR  password'. |
| 1.4 | Invalid Username and password | 1. Enter invalid User Name.  2. Enter invalid password.  3. Press enter or ‘login’ button to login. | Error message window displayed with  proper error message. |
| 1.5 | Number of unsuccessful attempts | 1. Check for number of invalid entries to be 10. | Unable to login from this IP Address for 10 minutes. |
| 1.6 | Connection Loss | 1. Check for connectivity. | If sudden loss of connection, display information message stating unable to connect to SLAP servers. |
| 1.7 | Cancel Login | 1. Click Cancel. | Login is canceled, with message message prompt to screen stating Login has been canceled. The login SLAPs Username and Password are removed and the user can re-enter new username and password. |
| **2** | **Logout Actions** |  |  |
| 2.1 | Logout | 1. User clicks Logout | A message is prompted to user stating “Are you sure you want to log out” |
| 2.2 | Logout Message | 1. Click Yes | User is logged out of the system and send to Login screen. |
| 2.3 | Cancel Logout | 1. Click Cancel | Logout is canceled, and user can continue to their duties. |

***2: Project Creation and Editing***

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| **Test Case ID** | **Purpose** | **Steps** | **Expected Result** |
| **1** | **Project** |  |  |
| 1.1 | Create Project | 1. Instructor clicks New Project.  2. Instructor enters a name for the project. | A new project is created with the given name. |
| 1.2 | Edit Project | 1.Instructor Logs in system and clicks on the project to be modified  2. Instructor clicks “Edit Project” button.  3. Project file opens with a panel allowing for modifications and editing  4. Instructor clicks on “Save” button to save the modifications done | Instructor edits a created project to add extra functionality or to remove unnecessary parts. |
| 1.3 | Cancel Project | 1.Instructor clicks cancel button | Removes the project and project information from system. |
| 1.5 | Discard Changes | 1. Click Discard Change | Any changes made to an edited form of the project are reverted back to when the project was first selected to be edited. |
| 1.6 | View Project | 1. Click View Course  2. Click a specific project | Displays all the projects in the selected course. |
| **2** | **Groups** |  |  |
| 2.1 | Assign Groups | 1. Instructor selects a class.  2. Instructor selects a project within that class.  3. Instructor clicks “Create a group”  17  4. Instructor selects the students who will be part of said group and names the group. | A group is created by the instructor, by pairing by the student profiles.  . |
| 2.2 | View Groups | 1. Instructor selects a class.  2. Instructor selects an assignment.. | The list of groups is displayed for the instructor to see. |
| 2.3 | View Student Activity (Specific Group Activity) | 1. Instructor selected a class  2. Instructor selected an assignment.  3. Instructor selects a specific group | Displays student activity in the selected group |
| **3** | **Instruction Documents** |  |  |
| 3.1 | Upload Instruction Documents | 1.Instructor selects a class.  2. Instructor selects a project within that class.  3. Instructor clicks “Upload Instruction Document”  4. Instructor selects a file to upload. | The chosen file is uploaded to the  project. |
| 3.2 | View Instruction  Documents | 1. Select a document.  2. Click view document. | A new window is created displaying the selected document. |
| 3.3 | Close Document | 1. Click Close | Once the document is open, then the document is closed, and user returns to previous screen. |
| 3.4 | Cancel View | 1. Click Cancel | The document is closed immediately. |

***3: Communication***

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| **Test Case ID** | **Purpose** | **Steps** | **Expected Result** |
| **1** | **View** |  |  |
| 1.1 | View Message | 1. User logs into SLAP system.  2. User click on message to view | The message sent by the administrator is viewable to the user. |
| 1.2 | Close Message Notifications | 1. Click Close | The message closed. |
| **2** | **Send** |  |  |
| 2.1 | Send Message | 1. User logs into SLAP system.  2. Click on Create Message button.  3. Type message, and select contacts.  4. Click Send Message | Message is send to specified contacts. |
| 2.2 | Failed Message Send | 1. User logs into SLAP system.  2. Click on Create Message button.  3. Type message, and select contacts.  4. Shutdown server temporarily.  5. Click Send Message. | Message popup informing user, there has been an error in sending message. |
| 2.3 | Save Draft | 1. Click Save | The current message is saved. |
| 2.4 | Cancel Message | 2. Click Cancel | The message information that has recently been typed is removed. |

***4: Account Editing***

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| **Test Case ID** | **Purpose** | **Steps** | **Expected Result** |
| **1** | **Password** |  |  |
| 1.1 | Change Password | 1. Click Change Password  2. Input old password  3. Input new password  4. Re-Enter new password | If all fields are entered appropriately then the password is changed to new password. |
| 1.2 | New Password Is Invalid | 1. Input wrong password on re-enter. | Message prompt to user stating the new password is invalid because the two entered new passwords do not match. |
| 1.3 | New Password Is Invalid | 1. Input new password to match old password. | Message prompt to user stating the new password matches old password. |
| 1.4 | Reset Password | 1. User clicks Reset Password on Login screen.  2. Administrator checks for request message.  3. Administrator resets password and sends it to user’s email address. | User’s password is reset and the new reset password is sent to user’s email address. |
| 1.5 | Request Password Reset | 1. Clicks Reset Password on Login screen. | Sends password rest request message to administrator. |
| 1.6 | Authentication Server Under Maintenance | 1. Shutdown server temporarily. | Message to all users stating that the server is under maintenance. |
| **2** | **Course** |  |  |
| 2.1 | Create Course | 1. Click Create Course  2. Choose Manage Course Information.  3. Enter course title.  4. Enter 6 character course code.  5. Enter course description.  6. Enter course enrollment deadline.  7. Enter course start and end dates. | A new course is added to the SLAP system. |
| 2.2 | Invalid Course Code | 1. Click Create Course  2. Choose Manage Course Information.  3. Enter course title.  4. Enter less than or more than 6 character course code. | Message on screen stating that course code is invalid. |
| 2.3 | View Course | 1. Click View Course | A new page opens with a list of enrolled courses and their course codes. |
| 3 | Register User | 1. Administrator selects Create a new User  2. Administrator fills in user’s personal information | Adds a new user to the SLAP system. This user can be a Instructor or a Student, as chosen by the Administrator. |
| 4 | Reorganize contacts | 1. Administrator clicks Filter Contacts  2. Administrator picks method of shorting | Created and applies new sorting filters to the contact list. |
| **5** | **SLAP** |  |  |
| 5.1 | Create SLAPs, Instructor to Student | 1. Instructor clicks “Create new SLAPs”  2. Instructor writes message  3. Instructor selects SLAPs class destination. | SLAPs is sent to the selected course students. |
| 5.2 | Create SLAPs, Administrator to All | 1. Administrator clicks “Create new SLAPs”  2. Administrator writes message  3. Administrator picks students and instructors as send contacts.  4. Administrator  send message | SLAPs is sent and received by all system users. |
| 5.3 | Create SLAPs, Administrator to Instructor | 1. Administrator clicks “Create new SLAPs”  2. Administrator writes message  3. Administrator picks instructors as send contacts.  4. Administrator send message | SLAPs is sent and received by instructors. |

***5: Evaluations and Submissions***

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| **Test Case ID** | **Purpose** | **Steps** | **Expected Result** |
| **1** | **View** |  |  |
| 1.1 | View Submissions | 1. Click  “Check Submission” button | For student a window opens with their latest submission of assignments. |
| 1.2 | View Submissions | Instructor clicks on “View Submission History” button. | For instructor a new window opens with a list of all student group submissions with timestamps of each submission. |
| 1.3 | View Evaluation | 1. Clicks “View Evaluation” button. | New window opens with a document with an evaluation that includes grade  and comments for the student. |
| **2** | **Submit** |  |  |
| 2.1 | Submit Evaluations | 1. Instructor selects a class.  2. Instructor selects a project within that class.  3. Instructor clicks “Submit Evaluation” button.  4. Instructor selects a student or group of students to submit an evaluation  for and inputs the evaluation. | The evaluations is submitted into the system to be evaluated successfully. |
| 2.2 | Submit Assignments | 1. Click “Submit Assignment” button.  2. Clicks Browse to browse and pick computer files.  3. Clicks submit. | The file is submitted to be evaluated. |

***6: Test Graphic User Interface and Navigation***

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| **Test Case ID** | **Purpose** | **Steps** | **Expected Result** |
| 1 | Checking of Login Buttons | 1. User examines login for username and password field.  2. User examines that the login button is placed appropriately.  3. User checks the login button for “log-in” to make sure it redirects him to the opening page. (assuming a correct username and password is selected) | The user is taken to the main SLAPs page for their respected status (Student, or Instructor or Admin). |
| **2** | **Check Interface** |  |  |
| 2.1 | Check Interface as Instructor | 1. User logins with valid instructor credentials.  2. User checks if all appropriate instructor’s SLAPs page GUI elements appear in the correct location. | All expected GUI elements are found in the correct location. |
| 2.2 | Check Interface as student | 1. User logins with valid student credentials.  2. User checks if all appropriate student’s SLAPs page GUI elements appear in the correct location. correct locations in the GUI. | All expected GUI elements are found in the correct location. |
| 2.3 | Check Interface as Administrator | 1. User logins with valid administrator  credentials.  2. User checks if all appropriate administrator's SLAPs page GUI elements appear in the correct location. | All expected GUI elements are found in the correct location. |
| 3 | Check Log out Button | 1. User examines that the logout button is placed appropriately on all interface pages.    2.User ends by checking the logout button for “logout” functionality to make sure it redirects him to the opening page. | Log out functionality navigates user out of main interface. |

**Part 2**

**Test Data**

***Test Data Used:***

Student account

Username Student

Password: stpass

Instructor account

Username Instructor

Password: ispass

Admin account

Username Admin

Password: adpass

***Tests Undertaken:***

Login Test 1:

Username: Admin

Password: adpass

Expected Result: Login success

Login Test 2:

Username: Student

Password: abcdefgh

Expected Result: Login failed, invalid password

Login Test 3:

Username: Public

Password: Studpass

Password: Login failed, invalid username

Project Creation/Edit Test:

Login as Admin

Creates project named: Iteration 2

Selects class CPS406 and project Iteration 2

Uploads instruction for Iteration 2

Expected Result: A project named Iteration 2 in class CPS406 and instructions can be viewed in the project

Communication Test:

Login as Admin

Create a new message with the message “Testing”

Select the contact Student

Send message

Expected Result: The contact, Student, can see a new message with the message “Testing”

Submission/Evaluation Test:

Login as Admin

Select class CPS406 and project Iteration 2

Create submissions for Iteration 2

Logout and Login as Student

Select class CPS406 and project Iteration 2 and submit testing.doc

Expected Result: A file named testing.doc is submitted in the project Iteration 2