***TEST SPECIFICATION DOCUMENT***

***TEAM 10***

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**1.0 Introduction**

The web application “Study Buddy” can be tested in stage-by-stage Manual testing as a overview and can be automated using Selenium Java Automation script at the stage of Testing. This test plan document describes the entire plan of testing our Web application “Study Buddy”.

**1.1 Goals and objectives**

The overall goal of testing this application is to make it error-free and make it user friendly with no bugs in the application. Also, to improve the overall efficiency and accuracy of the results.

**1.2 Statement of scope**

The scope includes four functionalities such as login, sign up, need a Buddy, I am a Buddy. These are the features of this web application which will give the clear results and make it easily accessible to anyone with valid inputs.

**2.0 Test Plan**

The main requirements of this web application are valid inputs. When the user enters the valid details, the user should be able to see the exact results as the search is effective. Each field has validation includes length of characters, symbols like ‘@’.

**2.1 Software to be tested**

The web application which we are building can be tested by Manual and Automation testing. Selenium Automation scripts can be run using Eclipse Tool.

**2.3 Testing tools and environment**

The testing tool which we are doing to use is Selenium Automation (JAVA). As ours is the Web app, Selenium is the best option to automate it and get the reports using TestNG.

**2.4 Test schedule**

We are building this project following waterfall model. So, our idea is to test it at the stage of testing. There is no major part of testing as of now except the manual testing.

**3.0 Test Cases**

This section enumerates a complete list of test cases for the software. A template for test cases is as follows.

Sign up Page and Login up :

|  |  |  |  |
| --- | --- | --- | --- |
| Test\_ID | Test Input | Expected Output | Description |
| 1 | User access the application as new user, and able to click the create account button. | Navigates to Sign up page | When the new user access the application, he must be able to create an account with a valid email id and password. |
| 2 | The user should be able to enter the mail id with’@’ and a valid password of length of 6-10 characters | User is able to enter the email id and the password and create an account | If the mail id does not have ‘@’, the user must be able to see the error message., the user must be able to see the error message.  If the password is less than 6 characters, the user should be able to see the error message that the password is too short. |
| 3 | The user should be able to enter the valid email and password , which was used to create an account and login to the application. | User is able to login with valid email id and password | If the user does not use the valid email id and password, it shows the error message that “Account not found” |
| 4 | The user should be able to enter the password and confirm the password to complete the sign up process | The user should be able to create an account | If the password doesn’t match, the user should be able to see the error message that “password doesn’t match”. |

Homepage:

|  |  |  |  |
| --- | --- | --- | --- |
| Test\_ID | Test Input | Expected Output | Description |
| 1 | The user should be able to click the “I am a Buddy” Button. | The user should be able to navigate to next page | The user should use the page and proceed with further actions |
| 2 | The user should be able to click the “Need a Buddy” Button | The user should be able to navigate to next page. | The user should use the page and proceed with further actions |

“I am a Buddy” page

|  |  |  |  |
| --- | --- | --- | --- |
| Test\_ID | Test Input | Expected Output | Description |
| 1 | The user should be able to provide the subject name in the textbox / select it from the dropdown with a valid subject name. | The user should enter the valid subject name in the textbox/ select it from the dropdown | The user should be able to use the dropdown to select the subjects. |
| 2 | The user should be able to select the available days from the dropdown | The user should select available days from the dropdown | The user should be able to select the available days from the dropdown for further actions. |
| 3 | The user should be able to select the valid inputs from the dropdown, if not user should get the error message. | The user should be able to provide the valid input else, the user should be able to see the error message. “Select a valid day” and “Select a valid subject”. | The user should be able to see the error message if the user skips a step of selecting a valid input. |

**“Need a Buddy”**

|  |  |  |  |
| --- | --- | --- | --- |
| Test\_ID | Test\_input | Expected Output | Description |
| 1 | The user should be able to select the available days with a valid input from the dropdown | The user should be able to select the valid input from the dropdown. | The user should be selecting a valid input from the dropdown to procced with further actions. |
| 2 | The user should be able to select the valid input (subject) from the dropdown | The user should be able to select the valid input from the dropdown | The user should be able to select a valid input from the dropdown to proceed with further actions. |
| 3 | The user should be able to view the results when the user able to click the “find” button | The user should view the results. | The user should be able to view the results fetched from the database when the user clicks “find” Button. |
| 4 | After clicking the find button, with a valid input, the user should be able to see the Buddy information in the same page. | In a Table format,  Name of the Buddy, available days, and the mail address. | The user should be able to see the names and mail address of the Buddies after the effective search |