**Unit Test Plan**

**Purpose:**

The main aim of unit testing is to test individual units and to tabulate their results.

**Client name: Nicholas**

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| --- | --- | --- | --- |
| Developer: Adarsh Kumar Reddy Pidaparthy | Project: Paperplane website | Module: Login, Home page, registration | Function: logging in, planning the trip with given start and end dates |
| Type: Unit testing | Version/Build:1.0 |  |  |

**Description:**

Unit testing is a type of testing where each and every unit or module of the project would be tested. It also involves the comparison of actual results and expected results. The results of unit testing can be either pass or fail. If the result is fail, then the particular module needs to be redefined and unit testing must be performed again on that specific module. The main drawback of unit testing is impossibility of evaluating every execution path in the application. There is also a limit to the test data that the developer can use. It isolates each part of the program and corrects individual parts.

**Tools for Unit testing:**

* Qunit
* Junit

**Test Cases:**

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| --- | --- | --- | --- | --- | --- |
| **Cond**  **#** | **Test Condition** | **Steps / Setup** | **Expected Result** | **Actual Result** | **Pass / Fail** |
| **1 Login Screen** | | | | | |
| 1.1 | To check whether the user can login successfully into the system | The user must enter right email ID and Password and click on the login button | The user logs into the system successfully. |  |  |
| 1.2 | To check whether the user can login to the system without entering a password or entered an incorrect password | The user must enter the email ID and click on the login button | The user cannot login to the system. |  |  |
| 1.3 | To check whether the user can login to the system without entering the email ID | The user must enter the password and click on the login button | The user cannot login to the system |  |  |
| 1.4 | To check whether the user can navigate to the reset password page by clicking on Forgot Password? button | The user must click on the Forgot Password? button | The user navigates to the reset password page successfully |  |  |
| 1.5 | To check whether the user can login to the website without entering an email id for Facebook login | The user must enter the email ID and click on the login button | The user cannot login to the system. |  |  |
| 1.6 | To check whether the user can login to the website without entering password for Facebook login | The user must enter the password and click on the login button | The user cannot login to the system. |  |  |

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| **Registration** | | | | | |
| 2.1 | To check whether the user can register without entering his first name | The user must enter first name and click on the register button | The user cannot register to the website. |  |  |
| 2.2 | To check whether the user can register without entering his last name | The user must enter last name and click on the register button | The user cannot register to the website. |  |  |
| 2.3 | To check whether the user can register without entering his email id | The user must enter email id and click on the register button | The user cannot register to the website. |  |  |
| 2.4 | To check whether the user can register without entering his password and confirming it | The user must enter password and click on the register button | The user cannot register to the website. |  |  |
| **Itinerary** | | | | | |
| 3.1 | To check whether the user can plan a trip without entering his start date | The user must enter start date and click on the search button | The user cannot plan his trip. |  |  |
| 3.2 | To check whether the user can plan a trip without entering his end date | The user must enter end date and click on the search button | The user cannot plan his trip. |  |  |
| 3.3 | To check whether the user can plan a trip without entering his destination | The user must enter destination and click on the search button | The user cannot plan his trip. |  |  |
| **Settings** | | | | | |
| 3.1 | To check whether the user can plan a trip without entering his appropriate currency | The user must enter appropriate currency and click on the search button | The user cannot plan his trip. |  |  |
| 3.2 | To check whether the user can plan a trip without entering his preferences | The user must enter his preferences and click on the search button | The user cannot plan his trip. |  |  |
| 3.3 | To check whether the user can plan a trip without entering his default time format | The user must choose his time format and click on the search button | The user cannot plan his trip. |  |  |
| **Sending a message** | | | | | |
| 3.1 | To check whether the user can communicate with customer care without entering his first name | The user must enter first name and click on the send message button | The user cannot send a message |  |  |
| 3.2 | To check whether the user can communicate with customer care without entering his last name | The user must enter last name and click on the send message button | The user cannot send a message |  |  |
| 3.3 | To check whether the user can communicate with customer care without entering his email id and phone number | The user must enter email id and phone number and click on the send message button | The user cannot send a message |  |  |
| 3.4 | To check whether the user can plan a trip without entering his message description | The user must give message description and click on the send message button | The user cannot send a message |  |  |