SOFTWARE TESTING DOCUMENT

2. Introduction:

This document is a high-level overview defining our testing strategy for the application. Its objective is to communicate project-wide quality standards and procedures. It portrays a snapshot of the project as of the end of the planning phase. This document will address the different standards that will apply to the unit, integration and system testing of the specified application.

2.1 Reference

- SRS
- Software Requirements provided by the client.

2.2 Features to be tested:

- GUI
- Login Test
- Sign Up Test
- Booking Test
- History and Tracking
- Connectivity
- Functionality Test
- Database Test

3. Approach:

- Functionality Testing
- Usability Testing
- Interface Testing
- Compatibility Testing
- Performance Testing
- Security Testing
- White Box Testing
- Unit Testing
- Black Box Testing

3.1 Detailed Explanation Of Approach:

3.1.1 Functionality Testing-

● This test is for – all the links in application pages, database connection, forms used in the application pages for submitting or getting information from user, Cookie testing.

● Check all the links - Testing for all outgoing links from all pages under specific domain and also testing the internal links.

● Testing links jumping on same pages and to check if there are any orphan pages and also checking the broken links.

● Test forms in all pages- Forms are the integral part of any web site.

● Forms are used to get information from users and to keep interaction with them. All the forms of the application were checked during this phase. The default values fields were also checked during this phase of checking. Wrong inputs for the fields were also checked.

● Database Testing – The consistency of the data was checked in this phase as it is the most important part of any application. All the functions of the database were tested such as edit, delete, modifying of the database and other functionalities were tested.

3.1.2 Usability Testing-

- Test for navigation- In this phase navigation of the Application pages was tested such as buttons, boxes or how user using the links on the pages to surf different pages. Main menu that is provided on the home page was tested to be consistent.
- Content checking- Format and quality of the content was checked in this phase. Format of the content was kept in mind such that use of the dark colors and was not used in the Application. The content and the images were checked and placed properly with proper sizes.
- Other user information for user help- The tree view of the navigation bar was checked for better usability. Working of all the links were checked in this phase.

3.1.3 Interface Checking-

In this phase the interactions between the servers like application server and database server was tested by the testing team. Errors were handled properly.

3.1.4 Compatibility Testing-

Compatibility of the Application is an important aspect of the website and the following compatibilities were tested:

● OS compatibility- Since it is an application designed for Web, it is compatible with all browsers.

3.1.5 Performance Testing-

Application was tested for heavy load and stress which are described below:

The Application was checked for large input data and simultaneous connection to database and for heavy load on each page.

3.1.6 Security Testing-

Several steps were taken to test the security of the website like some invalid inputs were fed to the fields like login and password and hence the security was checked.

3.1.7 White Box Testing-

This testing is based on the detailed investigation of internal logic and the structure of the code. This white box testing method was applied to the application and internal working of the code was tested by the tester. All the errors were then rectified.

3.1.8 Black Box Testing-

The technique of testing without having any knowledge of the interior workings of the application is Black Box testing. The tester is oblivious to the system architecture and does not have access to the source code. This type of testing was also applied to the application with help of our friends.

3.1.9 Unit Testing-

In this phase of testing individual testing of units of code was done, different modules of the codes were tested separately. Unit testing is beneficial because itmakes it to maintain the code