Conference Management and Reservation Online Portal

Testing

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# 1.0 Introduction

## 1.1 Purpose

The purpose of this document is to describe the testing measurements and procedures that is employed on the Conference Management and Reservation Online Portal. The test configurations as well as scope will also be stated.

# 2.0 Scope

## 2.1 Included Test Items

The test plan includes the following components:

- All web pages

- Database

- CSS files

- Javascript files

- External dependencies (e.g. external Javascripts)

## 2.2 Excluded Test Items

The following are assumed and shall be excluded from the test plan:

- Performance testing is not carried out on the prototype

- Developers and test team are running tests on the required test environment

- Test tools and environment is assumed to perform as intended

# 3.0 Test Strategy

## 3.1 Unit Testing

Unit testing is the lowest level of testing which is done on this system. The unit of this system is represented by a single component of a webpage/script file. This component can be as simple as a particular field in a webpage form. Unit testing is usually conducted by developers during the process of coding. By convention, unit testing must be passed before the other stages of testing is conducted in order to isolate the source of errors encountered.

## 3.2 Integration Testing

Integration testing is performed once the unit tests have pinpoint any unit-level problems. The components of the webpage are fitted together while tested to produce the whole webpage. During this integration, components might not work together as intended therefore a bottom-up approach is used. The layout of the webpage might have proper look and feel, right up until the CSS file is included and referenced to. An addition of a webpage component might cause rearrangement of the current page layout. The data which is passed to and from the database to the web page might be inaccurate when another function is introduced. These problems are part of the component integration testing. On the level of webpage integration, the links between one webpage to another, as well as the data which is passed is also tested.

## 3.3 System Testing

After the white-box testing have been done in unit and integration testing, system testing will be done within the scope of black-box testing. System testing will be more concerned about how the system will meet the requirements of the client. The main aspect which will be tested is the functionality and usability of the system. The functional requirements of the client are stated in the System Requirements Specifications and described in detail in the Software Design Document. Usability testing is done by developers before the acceptance testing to detect any complications in the user interface. Regression testing is also added to ensure that any modifications which were made after integration testing is performed are re-tested.

## 3.4 Acceptance Testing

Among the types of acceptance testing which will be carried out are user acceptance testing and alpha testing. User acceptance testing is focused on the acceptance of the user instead of only meeting user requirements which has been done in system testing. Alpha testing is done by all the team members of the project team to ensure that the system is ready to be released to external clients.

# 4.0 Environment Requirements

## 4.1 Hardware

The hardware which is used for testing is a PC which meets the system requirements for running a webpage. An internet connection is also required to run external scripts which are integrated into the webpage.

|  |  |
| --- | --- |
| Processor | Intel Pentium Dual Core 1.6 or better |
| Memory | 2 GB RAM |
| Storage | 2 GB free space |
| Screen Resolution | Recommended: 1366 x 768 |
| Operating System | Windows 7 or later |
| Web browser | Google Chrome (Recommended for HTML5 support) |

## 4.2 Software

The editor used during testing is Notepad++. Adobe Dreamweaver is also used to simplify layout modifications.

# 5. Documentation

# 6. Results, Analysis and Discussion

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case # | |  | | | |
| Test Name | |  | | | |
| Test Description | |  | | | |
| Created By | |  | | | |
| Tested By | |  | | | |
| Date Tested | |  | | | |
| Test Data | |  | | | |
| Pre-conditions | |  | | | |
|  | | | | | |
| Step | Procedure | | Expected Results | Actual Result | Test Status |
|  |  | |  |  |  |
|  |  | |  |  |  |
|  |  | |  |  |  |
|  |  | |  |  |  |
|  | | | | | |
| Post-Conditions | |  | | | |