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

## Participant Function Testing

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case # | | 1 | | | |
| Test Name | | Log in | | | |
| Test Description | | To test the log in function for participants | | | |
| Created By | | Chuan Way | | | |
| Tested By | | Chuan Way | | | |
| Date Tested | | 30/5/2016 | | | |
| Test Data | | User name: neko  Password : 123 | | | |
| Pre-conditions | | The user is at the log in page | | | |
|  | | | | | |
| Step | Procedure | | Expected Results | Actual Result | Test Status |
| 1 | Enter “neko” in the username field and “321” in the password field and click “Log in” button. | | Display: Wrong password | Display: No such user within the records | Fail |
| 2 | Repeat step 1 with username “aabbcc” and password “abc123” | | Display: No such user within the records | Display: No such user within the records | Pass |
| 3 | Repeat step 1 with only username “123” but blank password | | Display message in password field: Please fill out this field | Display message in password field: Please fill out this field | Pass |
| 4 | Repeat step 1 with only password “123” but blank username | | Display message in username field: Please fill out this field | Display message in username field: Please fill out this field | Pass |
| 5 | Enter “neko” in the username field and “123” in the password field and click “Log in” button. | | Logged in to participant account | Logged in to participant account | Pass |
|  | | | | | |
| Post-Conditions | | Logged in to participant account | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case # | | 2 | | | |
| Test Name | | Log out | | | |
| Test Description | | To test the log out function for participants | | | |
| Created By | | Chuan Way | | | |
| Tested By | | Chuan Way | | | |
| Date Tested | | 30/5/2016 | | | |
| Test Data | | - | | | |
| Pre-conditions | | The user is logged in to the system | | | |
|  | | | | | |
| Step | Procedure | | Expected Results | Actual Result | Test Status |
| 1 | Click on the “Back” button | | Error message: You are still logged in | Display “Log in” page | Fail |
| 2 | Click on the “Log out” button | | Logged out of participant account | Logged out of participant account | Pass |
|  | | | | | |
| Post-Conditions | | Logged out of participant account | | | |

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| --- | --- | --- | --- | --- | --- |
| Test Case # | | 3 | | | |
| Test Name | | Participate conference | | | |
| Test Description | | To test the participate conference page for participants | | | |
| Created By | | Chuan Way | | | |
| Tested By | | Chuan Way | | | |
| Date Tested | | 30/5/2016 | | | |
| Test Data | | Pass type: VIP  Financial assistance:  - Organization Name: Swinburne  - Amount: RM 450  Session Name: Understanding Autistic Children  Participation type: Presenting a paper | | | |
| Pre-conditions | | The user is logged in to the system  The user has selected a conference to participate | | | |
|  | | | | | |
| Step | Procedure | | Expected Results | Actual Result | Test Status |
| 1 | Select VIP in “pass type” dropbox. Leave other form fields blank. Click “Participate”. | | Error message: Please select one of these options | Error message: Please select one of these options | Pass |
| 2 | Select VIP in “pass type” dropbox. Select “Yes” for receiving financial assistance. Leave other form fields blank. Click “Participate”. | | Error message: Please fill in required fields | Proceed to the “Participation Summary” page with message: This sponsor is not within the database | Fail |
| 3 | Select VIP in “pass type” dropbox. Select “Yes” for receiving financial assistance. Type into organization name field “Swinburne”. Leave other form fields blank. Click “Participate”. | | Error message: Please fill in required fields | Proceed to the “Participation Summary” page with empty amount | Fail |
| 4 | Select VIP in “pass type” dropbox. Select “Yes” for receiving financial assistance. Type into organization name field “Swinburne”. Select amount RM450. Leave other form fields blank. Click “Participate”. | | Error message: Please choose participation type | Proceed to the “Participation Summary” page with no participation | Fail |
| 5 | Select VIP in “pass type” dropbox. Select “Yes” for receiving financial assistance. Type into organization name field “Swinburne”. Select amount RM450. Select participation type “Presenting a paper” and “Chairing a session”. Click “Participate”. | | Proceed to the “Participation Summary” page. Display participation types in schedule. | Proceed to the “Participation Summary” page. Schedule session displayed twice. No participation type displayed. | Fail |
| 6 | Repeat step 5 but click Clear button. | | All form fields are cleared | All form fields are cleared | Pass |
| 7 | Select VIP in “pass type” dropbox. Select “Yes” for receiving financial assistance. Type into organization name field “Swinburne”. Select amount RM450. Select participation type “Presenting a paper”. Click “Participate”. | | Proceed to the “Participation Summary” page. Display participation types in schedule. | Proceed to the “Participation Summary” page. Participation type not displayed in schedule. | Fail |
|  | | | | | |
| Post-Conditions | | Participation details recorded in database. | | | |

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| --- | --- | --- | --- | --- | --- |
| Test Case # | | 4 | | | |
| Test Name | | Hotel/Tour Booking | | | |
| Test Description | | To test the hotel/tour booking page for participants | | | |
| Created By | | Chuan Way | | | |
| Tested By | | Chuan Way | | | |
| Date Tested | | 30/5/2016 | | | |
| Test Data | | Hotel Booking:  - Pullman Hotel  - Start date: 15/7/2016  - End date : 17/7/2016  - Room requirement: Non smoking  - 2 adults, 1 children  - Special Requirements: Laundry service at 1 p.m.  Tour Booking:  - Amazing Rafflesia | | | |
| Pre-conditions | | The user is logged in to the system  The user is at the Hotel/ Tour Booking page | | | |
|  | | | | | |
| Step | Procedure | | Expected Results | Actual Result | Test Status |
| 1 | Select “No” for require accommodation. Select “No” for book a tour. Click “Proceed to Participation/Booking Summary”. | | Error message: Please select one of these options | Proceed to Hotel/Tour booking Summary page | Fail |
| 2 | Select “Yes” for require accommodation. Select “Yes” for book a tour. Select “Pullman Hotel Kuching” for preferred hotel. Leave other form fields blank. Click “Proceed to Participation/Booking Summary”. | | Error message: Please fill in required fields | Proceed to Hotel/Tour booking Summary page | Fail |
| 3 | Select “Yes” for require accommodation. Select “Yes” for book a tour. Fill in all form fields with selected test data. Fill in start date 15/7/2016 and end date 14/7/2016. Click “Proceed to Participation/Booking Summary”. | | Error message: Invalid end date | Proceed to Hotel/Tour booking Summary page | Fail |
| 4 | Select “Yes” for require accommodation. Select “Yes” for book a tour. Fill in all form fields with selected test data. Click “Proceed to Participation/Booking Summary”. | | Proceed to Hotel/Tour booking Summary page | Proceed to Hotel/Tour booking Summary page | Pass |
| 5 | Repeat step 4. Click Back to Hotel/Tour Booking. | | Return to Hotel/Tour Booking page | Return to Hotel/Tour Booking page | Pass |
| 6 | Repeat step 4. Click Proceed with payment. | | Redirect to Paypal account payment page | Redirect to Paypal account payment page | Pass |
| 7 | Repeat step 4. Click Print. | | Print dialog displayed | Print dialog displayed | Pass |
| 8 | Repeat step 4. Click Confirm. | | Hotel/Tour booking invoice displayed | Hotel/Tour booking invoice displayed | Pass |
| 9 | Repeat step 8. Click Print. | | Print dialog displayed | Print dialog displayed | Pass |
|  | | | | | |
| Post-Conditions | | Hotel and tour booking details recorded in database. | | | |

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| --- | --- | --- | --- | --- | --- |
| Test Case # | | 5 | | | |
| Test Name | | Hotel/Tour Booking | | | |
| Test Description | | To test the cancel hotel/tour booking page for participants | | | |
| Created By | | Chuan Way | | | |
| Tested By | | Chuan Way | | | |
| Date Tested | | 30/5/2016 | | | |
| Test Data | | Hotel Booking:  - Pullman Hotel  - Start date: 15/7/2016  - End date : 17/7/2016  - Room requirement: Non smoking  - 2 adults, 1 children  - Special Requirements: Laundry service at 1 p.m.  Tour Booking:  - Amazing Rafflesia | | | |
| Pre-conditions | | The user is logged in to the system  The user is at the cancel Hotel/ Tour Booking page | | | |
|  | | | | | |
| Step | Procedure | | Expected Results | Actual Result | Test Status |
| 1 |  | |  |  |  |
|  | | | | | |
| Post-Conditions | | Hotel and tour booking details deleted from database. | | | |

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| --- | --- | --- | --- | --- | --- |
| Test Case # | | 6 | | | |
| Test Name | | Provide Feedback | | | |
| Test Description | | To test provide feedback page for participants | | | |
| Created By | | Chuan Way | | | |
| Tested By | | Chuan Way | | | |
| Date Tested | | 30/5/2016 | | | |
| Test Data | | Subject: Tour preference  Comment: More tour options should be provided for better flexibility. | | | |
| Pre-conditions | | The user is logged in to the system  The user is at the provide feedback page | | | |
|  | | | | | |
| Step | Procedure | | Expected Results | Actual Result | Test Status |
| 1 | Fill in comment but leave subject field blank. | | Error message: Please fill out this field (Subject field) | Error message: Please fill out this field (Subject field)  Display: Thank you for the feedback | Fail |
| 2 | Fill in subject but leave comment field blank. | | Error message: Please fill out this field (Comment field) | Error message: Please fill out this field (Comment field)  Display: Thank you for the feedback | Fail |
| 3 | Fill in subject and comment field. | | Display: Thank you for the feedback | Display: Thank you for the feedback | Pass |
|  | | | | | |
| Post-Conditions | | User feedback recorded in database. | | | |

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| --- | --- | --- | --- | --- | --- |
| Test Case # | | 7 | | | |
| Test Name | | Make Enquiries | | | |
| Test Description | | To test make enquiries page for participants | | | |
| Created By | | Chuan Way | | | |
| Tested By | | Chuan Way | | | |
| Date Tested | | 30/5/2016 | | | |
| Test Data | | Title: Conference venue car park  Message: May I know the available places to park my vehicle nearby the venue? | | | |
| Pre-conditions | | The user is logged in to the system  The user is at the make enquiries page | | | |
|  | | | | | |
| Step | Procedure | | Expected Results | Actual Result | Test Status |
| 1 | Fill in title but leave message field blank. | | Error message: Please fill out this field (Message field) | Error message: Please fill out this field (Message field)  Display: Enquiry sent to the Event Manager | Fail |
| 2 | Fill in message but leave title field blank. | | Error message: Please fill out this field (Title field) | Error message: Please fill out this field (Title field)  Display: Enquiry sent to the Event Manager | Fail |
| 3 | Fill in title and message field. | | Display: Enquiry sent to the Event Manager | Display: Enquiry sent to the Event Manager | Pass |
|  | | | | | |
| Post-Conditions | | Enquiry recorded in database. | | | |

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| --- | --- | --- | --- | --- | --- |
| Test Case # | | 8 | | | |
| Test Name | | Register | | | |
| Test Description | | To test registration page for participants | | | |
| Created By | | Chuan Way | | | |
| Tested By | | Chuan Way | | | |
| Date Tested | | 30/5/2016 | | | |
| Test Data | | Username: robertdowney65  Password: tonystark08  First Name: Robert  Surname: Downey  Email: robertstark65@gmail.com  Phone Number: 0123456789  Date of Birth: 4/4/1965  Address: 129b Lorong 3b 2, Taman Seng Goon, 93250 Kuching.  Country: Malaysia  State: Sarawak  City: Kuching  Postcode: 93250  Occupation: Writer  Newsletter: Yes | | | |
| Pre-conditions | | The user is logged in to the system  The user is at the make enquiries page | | | |
|  | | | | | |
| Step | Procedure | | Expected Results | Actual Result | Test Status |
| 1 | Leave all fields blank and click Submit. | | Error message: Please fill out this field (Username field) | Error message: Please fill out this field (Username field) | Pass |
| 2 | Fill in username. Leave other fields blank and click Submit. | | Error message: Please fill out this field (Password field) | Error message: Please fill out this field (Password field) | Pass |
| 3 | Fill in username and password. Leave confirm password field blank. Leave other fields blank and click Submit. | | Error message: Please fill out this field (Confirm Password field) | Error message: Please fill out this field (Confirm Password field) | Pass |
| 4 | Fill in username, password and confirm password. Leave other fields blank and click Submit. | | Error message: Please fill out this field (First Name field) | Error message: Please fill out this field (First Name field) | Pass |
| 5 | Fill in username and password. Fill confirm password field with “abc” (wrong password confirmation). Leave other fields blank and click Submit. | | Error message: Wrong password re-entered | Error message: Wrong password re-entered | Pass |
| 6 | Fill in all fields. Click Submit. | | Display: Successfully registered | Display: Successfully registered | Pass |
|  | | | | | |
| Post-Conditions | | Participant details recorded in database. | | | |