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**Software Engineering**

**Test Plan Document:**

**Iteration 2**

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# Introduction

## Iteration Overview

In this iteration, each web page in the system is being tested for display and navigation links. Input to test these web pages is simply navigating to each page and assuring the view is as expected. The author upload functionality for submitting and retrieving reports from the database is also getting implemented. While the web interface is currently in its second version, all other components of this iteration is in its first version. Environments that will be tested upon include Windows and Mac. Internet browsers that will be tested include Internet Explorer, Firefox, Google Chrome, and Safari.

## Definitions and Abbreviations

|  |  |
| --- | --- |
| **Term** | **Definition** |
| *Test #* | Test Case Number / Identifier |
| *Requirement* | Requirement that the test cases are validating (number / identifier) |
| *Action* | Action to perform or input to produce |
| *Expected Result* | Result expected when action is complete |
| *Actual Result* | What was actually seen |
| *P / F* | Pass / Fail indicator. Checkmark = Pass. “F” = Fail |
| *Notes* | Additional notes, error messages, or other information about the test. |
| *IE* | Internet Explorer 8 |
| *FF* | Firefox 3.5.5 |
| *SF* | Safari 4.0.2 |
| *GC* | Google Chrome 4.0.249 |

## References

User Stories Document, Team Crash Course

Release Planning Document, Team Crash Course

## Items Not Covered by These Test Cases

Admin actions, the admin free-form query submission, and query results are not being tested as it is not implemented till iteration three.

## Bug Tracking

Bugs found in testing for this phase will be logged in a Microsoft Excel Spreadsheet. This spreadsheet will contain the bug number,

name of the user story to which the bug applies, status to elaborate on the exact problem, the name of the developer to fix the bug,

and whether or not the bug has been resolved.

## Quality Control

The quality of the testing process will be maintained by having a rigorous and complete test plan. The test plan will consist of a large number of test cases to verify that all implemented functionality for this phase operates correctly. Any system functionality that does not pass its respective test cases will be fixed and re-tested. These cases will be based upon a scale used to rate the performance of that system for each test case.

## Adequacy Criterion

Testing the system for this phase will be complete when all test cases meet the minimum requirement for tests to pass. If the system fails a test, the system will be edited to correct the problem. If a part of the system does not pass a test at the end of the phase, that part will be corrected at the beginning of the next phase. A numeric standard will be used to control the testing process and rate how successful the system is for each test case. The system fails the test case if it has a value less than 80. The standard is as follows:

|  |  |
| --- | --- |
| **Test Rating** | **Rating Requirements** |
| 100 | No errors on any platform/browser; Displays Properly; Linked Properly, Perfect Database storage/retrieval  |
| 80 | No errors on one platform/browser, non-fatal errors on others; Displays Properly; Linked Properly |
| 60 | Non-fatal errors; Displays Properly; Not Linked Properly, Limited Database storeage/retrieval |
| 50 | Non-fatal errors; Does not display properly on any platform/browser, Database doesn’t store/retrieve |
| 0 | Fatal errors; Does not meet requirements specified in scope |

# Test Strategy

## Testing Process

All functional requirements will be tested individually. The specific features on each web page will be tested to ensure that each feature loads properly and performs its function. The features of the login will be tested to ensure that each user role will be recognized correctly, and that any invalid users will not be allowed access to the system. The non-functional requirements of this phase solely rely on web page layout. These requirements will be tested to ensure that the web pages match the design of the system that was agreed upon prior to development. The testing for this phase is primarily top-level testing with few in-depth checks regarding the login and time-out features. This phase is developing the first version of the system, therefore, integration of this phase into another version will not be necessary.

## Technology

None.

# Test Cases

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Test #** | **User Story** | **Action / Input** | **Expected Result** | **Actual Result** | **P/F** | **Notes** | **Date test performed** | **Tester** |
| 1.a | Web Interface | Open the web page. | Web page loads. | Web page loads. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 1.b | Web Interface | Open the web page. | The web page is modeled on the department website. | The web page is modeled on the department website. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 1.c | Web Interface | Open web page, change screen resolution and resize window | No table cells get contracted or text gets wrapped at different screen resolutions or window sizes | No table cells get contracted or text gets wrapped at different screen resolutions or window sizes | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 1.d | Web Interface | Navigate through all pages on the site. | No page errors are displayed. | No page errors are displayed. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 2.a | Author Upload | Select a file at the upload prompt and click upload. | The file is uploaded to the database. | The file is uploaded to the database. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 2.b | Author Upload | Clicking on the Browse button.  | A window is opened where a file can be selected. | A window is opened where a file can be selected. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 2.c | Author Upload | Clicking upload. | Upload is unsuccessful if no paper has been selected. | Upload is unsuccessful if no paper has been selected. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 3.a | Confirmation dialogue upon submission | Click upload after selecting file. | A confirmation dialogue appears. | A confirmation dialogue appears. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 3.b | Confirmation dialogue upon submission | Click upload after selecting file. | The confirmation dialogue says the upload is successful if the paper was successfully uploaded to the database. | The confirmation dialogue says the upload is successful if the paper was successfully uploaded to the database. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 3.c | Confirmation dialogue upon submission | Click upload after selecting file. | The confirmation dialogue says the upload is unsuccessful if the paper was not uploaded to the database. | The confirmation dialogue says the upload is unsuccessful if the paper was not uploaded to the database. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 4.a | Author copy/paste abstract | Abstract is copied and pasted into the field. | The abstract appears in the appropriate area. | The abstract appears in the appropriate area. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 4.b | Author copy/paste abstract | Abstract is copied and pasted into the field. | The abstract does not exceed the character limit. | The abstract does not exceed the character limit. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 5.a | Abstract Character Limit | The abstract is entered into the text area. | The number of characters does not exceed 500. | The number of characters does not exceed 500. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 5.b | Abstract Character Limit | The upload form is viewed. | There is an on-screen notice informing the author of the limit. | There is an on-screen notice informing the author of the limit. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 6.a | Uploading partial abstract to database. | Enter the abstract into the text field and click upload. | The abstract is uploaded to the database. | The abstract is uploaded to the database. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 6.b | Uploading partial abstract to database. | Enter the abstract into the text field and click upload. | The abstract is only uploaded if a paper is simultaneously being uploaded. | The abstract is only uploaded if a paper is simultaneously being uploaded. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 6.c | Uploading partial abstract to database. | Upload is clicked without uploading an abstract. | The paper is not uploaded into the database. | The paper is not uploaded into the database. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 6.d | Uploading partial abstract to database. | Upload is clicked without uploading an abstract. | The author is told that they must submit an abstract along with their paper. | The author is told that they must submit an abstract along with their paper. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 7.a | Including a report in the repository. | Report is submitted/approved | Report is visible in the repository. | Report is visible in the repository. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 7.b | Including a report in the repository. | Report is submitted/approved | Author for each paper is visible. | Author for each paper is visible. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 7.c | Including a report in the repository. | Report is submitted/approved | Title for each paper is visible. | Title for each paper is visible. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 7.d | Including a report in the repository. | Report is submitted/approved | Date for each paper is visible. | Date for each paper is visible. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 7.e | Including a report in the repository. | Report is submitted/approved | The report title is a link. | The report title is a link. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 7.f | Including a report in the repository. | Clicked on the title of the report. | The paper is opened/is downloaded by the browser. | The paper is opened/is downloaded by the browser. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 8.a | Repository Abstract Link | Viewing a report in the repository. | A clickable link is next to each report in the repository. | A clickable link is next to each report in the repository. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 8.b | Repository Abstract Link | Viewing a report in the repository. | The link says “View” | The link says “View” | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 8.c | Repository Abstract Link | Clicking the link to the abstract. | Directs the user to a new page where the abstract is visible. | Directs the user to a new page where the abstract is visible. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 8.d | Repository Abstract Link | Clicking the link to the abstract. | The abstract is for the matching report. | The abstract is for the matching report. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 9.a | Display Papers for Authors | Author navigates to View Papers link and clicks it. | Link should be visible and link to the View Papers page. | Link is visible and link to the View Papers page. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 9.b | Display Papers for Authors | Author’s papers are viewable. | Paper is viewable. | Paper is viewable. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 10.a | Comment Field for Reviewer | Reviewer navigates to the Comments Field link and clicks it. | Link should be visible and link to the Comments Field Page. | Link is visible and link to the Comments Field Page. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 10.b | Comment Field for Reviewer | Reviewer writes/edits text in the Comment Field. | Field should be editable. | Field is editable. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 10.c | Comment Field for Reviewer | Try to edit comment field as Author. | Function inaccessible to Authors | Function inaccessible to Authors | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 10.d | Comment Field for Reviewer | Try to edit comment field as an Admin. | Function inaccessible to Admin | Function inaccessible to Admin | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 11.a | Author View Comment Fields | Author navigates to the View Comment Field link and clicks it. | Link should be visible and link to the View Comments page. | Link is visible and link to the View Comments page. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 11.b | Author View Comment Fields | Author views the comments from Reviewers. | Comments from Reviewers should be visible. | Comments from Reviewers is visible. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 12.a | Author View Submission Status | Author views the submission status of his/her paper(s). | Submission Status of Author's paper should be visible. | Submission Status of Author's paper is visible. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 13.a | Viewing Partial Abstract | User navigates to View Repository link and clicks it. | Link should be visible and link to the View Abstract page. | Link is visible and link to the View Abstract page. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 13.b | Viewing Partial Abstract | User clicks the Partial Abstract link. | Link should be visible and link to the Partial Abstract page. | Partial Abstract page is displayed. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 13.c | Viewing Partial Abstract | User views the abstract. | Partial Abstract is visible. | Partial Abstract is displayed. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 13.d | Viewing Partial Abstract | User not logged in navigates and clicks on View Repository Link. | Link should be visible and link to the View Repository page. | Link is visible and link to the View Abstract page. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 13.e | Viewing Partial Abstract | User not logged in clicks the partial abstract link. | Link should be visible and link to the Partial Abstract page. | Partial Abstract page is displayed. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 13.f | Viewing Partial Abstract | User not logged in views the abstract. | Partial Abstract is visible. | Partial Abstract is displayed. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 13.g | Viewing Partial Abstract | Reviewer navigates to the Download Report Link and clicks it. | Link should be visible and link to the Downloadm, Reports page. | No link is displayed. | F | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 14.a | Reviewers Downloading Report | Reviewer clicks the paper link. | Opens up report in browser. | It downloads and opens in browser. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 15.a | Reviewers Downloading Report | Author navigates to View All Reports Link and clicks it. | Link should be visible and link to the Initial Status on Submitted Papers page. | Link should be visible and link to the Initial Status on Submitted Papers page. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 15.b | Initial Status on Submitted Papers | Author views list of papers with their respective statuses.  | Status should be visible and in the View Papers page. | Status is visible. | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |
| 15.c | Initial Status on Submitted Papers | Author looks in the column under “Status” for initial status. | Initial Submission Status of Author's paper should be”Submitted.” | Status is “Submitted.” | P | Tested on IE, FF, GC, SF | 02/15/2010 | Ryan Ashe, Taylor Paschal |

# Customer Acceptance Testing

Customer Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Test #** | **User Story** | **Action / Input** | **Expected Result** | **Actual Result** | **P/F** | **Notes** | **Date test performed** |
| 1. | Web Interface | Navigate to the Technical Report website. | Pages are visible and load correctly. |  |  |  |  |
| 2. | Author Upload | User (as Author) submits a paper to the database. | Paper is successfully submitted. |  |  |  |  |
| 3. | Confirmation Dialogue Upon Submission | User (as Author) submits a paper to the database. | Confirmation Dialogue is displayed. |  |  |  |  |
| 4. | Author Copy/Paste Abstract | User (as Author) copies his/her text into the text field. | Text is entered into the field. |  |  |  |  |
| 5. | Abstract TextArea Char Limit | User (as Author) attempts to type/copy more than 500 chars in text field. | Error is generated when “Upload Report” is clicked. |  |  |  |  |
| 6. | Uploading Partial Abstract to Database | User (as Author), submits an abstract to the database using the upload report button. | Abstract is upload along with Title and Report. |  |  |  |  |
| 7. | Including a Report in the Repository | User (as Admin) places a report in the Repository. | Report is successfully stored in the repository. |  |  |  |  |
| 8. | Repository Abstract Link | User clicks on the link. | Link should be visible and direct user to the Abstract page. |  |  |  |  |
| 9. | Display Papers for Authors | User (as Author) clicks on the View Papers link. | Link should be visible and direct user to View All Reports page. |  |  |  |  |
| 10. | Comment Field for Review | User (as Reviewer) writes comments in comment field. | Comment Field should be editable. |  |  |  |  |
| 11. | Author View Comment Fields | User (as Author) views comments. | Comments should be viewable (not modifiable) to the Author. |  |  |  |  |
| 12. | Author View Submission Status | Author views submission status. | Submission status of reviewed papers visible. |  |  |  |  |
| 13. | Viewing Partial Abstract | User views partial abstract. | Partial Abstracts should be visible for the user. |  |  |  |  |
| 14. | Reviewers Downloading Report | User (as Reviewer) downloads paper to review. | Paper should download and open up in the browser. |  |  |  |  |
| 15. | Initial Status on Submitted Papers | User (as Author) views initial status. | Initial status of submitted papers is visible. |  |  |  |  |