**Test Plan-Test Specification**

**Version 1.1**

**Project Management App**

**Team A**

**CSC-355**

**Spring 2016**



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**REVISION HISTORY**

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Author | Description | Date |
| 1.0 | Jennifer Li | I created the first draft. | 1/31/2016 |
| 1.1 | Jennifer Li | Added Section 1 and 2 | 2/20/2016 |
|  | Jennifer Li | Added Section 3 and 6 | 2/21/2016 |
|  | Jennifer Li | Added Section 4 and 9  Also made edits on section 2.1, 2.2. and 2.3 | 2/22/2016 |

**1.0 INTRODUCTION**

This document presents the test and specification plan on how and what, the Project Management App will be tested. This document will outline, test procedures formulated to validate the Project Management App. This document will describe the test strategy, the test system, and provide an estimation of testing effort. It will also be providing the system test configurations and the risk and contingencies of testing the app.

**2.0 FEATURES TO BE TESTED**

The following features will be tested to ensure that the Project Management App satisfies all functionality. The following functionality will be included and tested before the determined release dates.

**2.1 Intermediate Release**

The following features that will be tested by the intermediate release; which will be within the first week of March.

* RS 1.0 (F.R.1.0) – Verify that a user can create an account
* RS 2.0 (F.R.2.0) – Verify that a user can login using a valid username and password
* RS 3.0 (F.R.3.0) – Verify that a user can create a project
* RS 4.0 (F.R.4.0) – Verify that leader can add members
* RS 5.0 (F.R.6.0) – Verify that leader can assign task
* RS 6.0 (F.R.7.0) – Verify that member can submit completed task
* RS 7.0 (F.R.8.0) – Verify that leader can review submitted task
* RS 8.0 (F.R.9.0) – Verify that leader can view overall progress
* RS 8.1 (F.R.9.1) – Verify that member can view overall progress
* RS 9.0 (F.R.12.0) – Verify that member can accept project invitations
* RS 10.0 (F.R.13.0) – Verify that leader can view due dates
* RS 10.1 (F.R.13.1) – Verify that member can view due dates
* RS 11.0 (F.R.16.0) – Verify that leader can Logout
* RS 11.1 (F.R.16.1) – Verify that member can Logout
* RS.12.0 (F.R.19.0) – Verify that leader can send invites to members
* RS 13.0 (F.R.20.0) – Verify that leader can view all members

**2.2 Final Release**

The following features that will be tested by the final release; which will be within the last week of April.

* RS 14.0 (F.R.5.0) – Verify that leader can remove members
* RS 15.0 (F.R.10.0) – Verify that leader can views members’ task progress
* RS 16.0 (F.R.11.0) – Verify that member can view their own task progress
* RS 15.0 (F.R.14.0) – Verify that leader can message members
* RS 15.1 (F.R.14.0) – Verify that member can message leader and other members
* RS 16.0 (F.R.15.0) – Verify that leader can set reminders
* RS 17.0 (F.R.17.0) – Verify that leader can upload documents
* RS 17.1 (F.R.17.1) – Verify that member can upload documents
* RS 18.0 (F.R.18.0) – Verify that leader can create custom roles
* RS 19.0 (NF.R.1.0) – Verify Reliability
* RS 20.0 (NF.R.2.0) – Verify Usability
* RS 21.0 (NF.R.3.0) – Verify Scalability

**2.3 Scenarios**

The system will also be tested using various real-to-life scenarios. This will verify workflow and coordination of functions:

The following scenario test will be conducted during the intermediate release date:

* RS 22.0 : F.R.3.0, F.R.4.0, F.R.19.0, F.R.12.0 – Verify leader and member interaction of, Create a project, Add members, Send invites to members, and Accept project invitations.
* RS 23.0 : F.R.6.0, F.R.7.0, F.R.8.0 – Verify leader and member interaction of, Assign task, Submit task, and Review task.
* RS 24.0 : F.R.2.0, F.R.9.0, F.R.13.0, F.R.16.0 – Verify leader and member can Login, View overall progress, View due dates, Logout

The following scenario test will be conducted during the final release date:

* RS 25.0 : F.R.20.0, F.R.5.0, F.R.10.0 – Verify leader can, View all members, Remove members, and Leader views members’ task progress.
* RS 26.0 : F.R.12.0, F.R.7.0, F.R.11.0 – Verify member can, Accept project invitations, Submit task, and View members’ own task progress.

**3.0 TEST APPROACH & DESIGN**

The overall testing approach includes unit testing, system testing, scenario testing, regression testing, reliability testing, usability testing, and scalability testing. Each type of testing is described in more detail in the following sub-sections.

**3.1 Unit Testing**

All featured describe in section 2 must be tested by the developers before the release dates. The functional requirements will be individually and independently scrutinized for proper operation.

**Table 3.1: Unit Testing Design**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Requirement  Definition | System  Test Case ID | Test Input | Test Configuration | Test Objective |
| RS 1.0 | ST 1.0 | Test Plan 1.1 | TC 1.0 | TO 1.0 - Verify that a user can create an account |
| RS 2.0 | ST 2.0 | Test Plan 1.1 | TC 1.0 | TO 2.0 – Verify that a user can login using a valid username and password |
| RS 3.0 | ST 3.0 | Test Plan 1.1 | TC 1.0 | TO 3.0 – Verify that a user can create a project |
| RS 4.0 | ST 4.0 | Test Plan 1.1 | TC 1.0 | TO 4.0 – Verify that leader can add members |
| RS 5.0 | ST 5.0 | Test Plan 1.1 | TC 1.0 | TO 5.0 – Verify that leader can assign task |
| RS 6.0 | ST 6.0 | Test Plan 1.1 | TC 1.0 | TO 6.0 – Verify that member can submit completed task |
| RS 7.0 | ST 7.0 | Test Plan 1.1 | TC 1.0 | TO 7.0 – Verify that leader can review submitted task |
| RS 8.0 | ST 8.0 | Test Plan 1.1 | TC 1.0 | TO 8.0 – Verify that leader can view overall progress |
| RS 8.1 | ST 8.1 | Test Plan 1.1 | TC 1.0 | TO 8.1 – Verify that member can view overall progress |
| RS 9.0 | ST 9.0 | Test Plan 1.1 | TC 1.0 | TO 9.0 - Verify that member can accept project invitations |
| RS 10.0 | ST 10.0 | Test Plan 1.1 | TC 1.0 | TO 10.0 – Verify that leader can view due dates |
| RS 10.1 | ST 10.1 | Test Plan 1.1 | TC 1.0 | TO 10.1 – Verify that member can view due dates |
| RS 11.0 | ST 11.0 | Test Plan 1.1 | TC 1.0 | TO 11.0 – Verify that leader can Logout |
| RS 11.1 | ST 11.1 | Test Plan 1.1 | TC 1.0 | TO 11.1 – Verify that member can Logout |
| RS 12.0 | ST 12.0 | Test Plan 1.1 | TC 1.0 | TO 12.0 – Verify that leader can send invites to members |
| RS 13.0 | ST 13.0 | Test Plan 1.1 | TC 1.0 | TO 13.0 – Verify that leader can view all members |

**3.2 System Testing**

System testing will be done by the tester(s) before the release dates. This test will be testing the software and hardware. It must be done on a completed, integrated system to evaluate the compliance with all the described functional and non-functional requirements in the Software Requirements Specification document.

**3.3 Scenario Testing**

The system will be tested using a verity of real life scenarios. This testing will verify the work, screen and coordination flow of all mutually dependent functions.

**Table 3.3: Scenario Test Design**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Requirement  Definition | System  Test Case ID | Test Input | Test Configuration | Test Objective |
| RS 22.0 | ST 22.0 | Test Plan 1.1 | TC 1.0 | TO 22.0 -– Verify leader and member interaction of, Create a project, Add members, Send invites to members, and Accept project invitations. |
| RS 23.0 | ST 23.0 | Test Plan 1.1 | TC 1.0 | TO 23.0 - Verify leader and member interaction of, Assign, task, Submit task, and Review task. |
| RS 24.0 | ST 24.0 | Test Plan 1.1 | TC 1.0 | TO 24.0 – Verify leader and member can Login, View overall progress, View due dates, Logout |

**3.4 Regression Testing**

Regression testing will ensure that bug fixes in the test cycle will not break the previously working functionality during the prior release dates.

* Bugs are to be fixed as they are found. For each software build that is released to the test team, tests will be run to verify that the bugs fixed in that build do not reoccur.
* Once testing of functionally is complete and the app is up and running, there will be one final regression pass before system testing. For the system to pass regression testing, it will require that 100% of major bugs, at least 90% of moderate bugs, and at least 25% of minor bugs be fixed.

**3.5 Reliability Testing**

Reliability testing will be done before the final release of this app. This test is in place to ensure that the application is not down for more than 1 minute per day when the app is fully deployed.

**3.6 Usability Testing**

Usability testing will be done before the final release of this app. This test will ensure that users must be able to grasp the general use of the app under 5 minutes. To determine this app’s usability a survey of 10 people will be conducted.

**3.7 Scalability Testing**

Scalability testing will be done before the final release of this app. This test will encompass the increasing trend of smartphone and tablet use in the modern workforce. When the app is fully functional it must be able to run on a tablet.

1. **SOFTWARE DEFECT STATES**

Software defect states are used for the purpose of tracking the status of all bugs, bug states are defined. The five bug states are defined as follows:

* **New:** When a defect has not been acknowledged or addressed by developers.
* **Active:** A defect that is assigned to a developer or team of developers; and is currently being analyzed and worked on.
* **Fixed:** When developer or team of developers makes necessary code changes and verifies the changes. Then the defect will be ready for retesting.
* **Resolved:** Once the defect is fixed, it is tested by the tester. If the tester feels that the defect no longer exists in the software, the status of the defect is changed to “resolved”.
* **Reactive:** If the bug still exists even after the bug is fixed by the developer, the tester changes the status to “reactive”. The bug goes through the life cycle once again.

1. **SOFTWARE DEFECTS SEVERITY**

Stuff – classification of bugs found in the project management app.

1. **SYSTEM TEST CONFIGURATION**

For the testing process, we will be using our phones and the nexus tablet, provided by Kutztown University’s Computer Science Department. This testing will take place in 157, one of the Computer Science computer laps in Old Main. The Project Management App is designed to run on android devices. It was created using Google’s Android Java language and shared on GitHub. The test product will be downloaded from android studio via micro USB cable. The test configuration specifies both the hardware and software requirements that the implemented system will be test on. The test configuration to be used is shown in tables 3.1 and 3.3.

* TC1 – Android Version 5.1.1, Nexus 7
* TC2 – Android Version 5.1.1, Samsung Galaxy Note 4
* TC3 – Android Version 5.1.1, Samsung Galaxy 4

1. **TEST RESPONSIBILITIES**

Both the Development and Test Teams have responsibilities for ensuring the quality of the intended product.

*Development Team responsibilities include:*

* Unit Test Features as they are developed
* Fix 100% of major bugs and at least 90% of moderate bugs. Minor bugs will be fixed if time allows.
* Perform Integration Testing on features before they are packaged in a build for the test team
* Prepare the application for delivery to the test team according to the WBS
* Fix bugs submitted via MRs

*Test Team responsibilities include:*

* Run planned tests and create MR reports for developers
* Prepare a MR Summary Report on bugs found
* Prepare a Test Status Report & Test Metrics at the end of the testing phase
* Prepare Test Logs and a Bug Status Report

1. **TEST ENTRANCE CRITERIA**

Before the Test Team will accept the system from the Development Team the following Entry Requirements must be met.

*Entrance Criteria include:*

* + Development unit and integration testing completed
  + System must install properly without undesirable side effects (see Section 8.0)
  + 100% of Major bugs found in development testing must be fixed

**8.1 Developers**

Stuff

**8.2 Testers**

Stuff

1. **TEST SCHEDULE**

Unit and integration testing is expected to be done by the development team, prior to the start of Testing Cycle #1. Testing Cycle #1 will be done before intermediate release. Testing Cycle #2 will be done before the final release date. All major bugs found in that testing will be fixed prior to the start of system testing. Table 9.1 provides an estimated schedule of the start and the end dates for tasks during each cycle.

**Table 9.1: Estimate Testing Schedule**

|  |  |  |
| --- | --- | --- |
| Task | Start Date | End Date |
| Testing Cycle #1 | 2/27 | 3/01 |
| Testing Cycle #2 | 4/15 | 4/20 |

1. **RISK AND CONTINGENCIES**

The following Table 10.1 outlines possible risks and contingency plans affecting the testing of the Project Management App system:

**Table 10.1: Risks and Contingencies**

|  |  |  |  |
| --- | --- | --- | --- |
| Risk | Likelihood | Impact | Mitigation |
|  |  |  |  |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Risk** | **Likelihood** | **Impact** | **Mitigation** |
| Hardware/Software required are not available at testing time. | 25% | Major | The testing will be done using the Lytle Hall computer room. If this room is not available, other backup labs should be found and reserved. |
| Requirements change during test development. | 25% | Moderate | Requirements should be constantly reviewed and test cases need to be revised if requirements change |
| Test cases are not ready. | 25% | Moderate | Testing of available test cases should be performed while other test cases are finalized |
| User interface changes during test development or at start of test. | 25% | Moderate | If interface changes, development team needs to inform test team of any changes. |
| Inclement weather forces a delay in schedule | 25% | Moderate | If people are not available due to weather, others from the team may be asked to help in the testing phase. If the university closes, testers may need to download the system at home to perform testing. |
| People scheduled to test are not available at test time. | 25% | Minor | If people are not available, then we should consider asking another team member to assist in testing. |
| Personnel do not give 100% effort to the project | 25% | Moderate | If members are not giving 100% to the project, this should be brought to the attention of Upper Management and the Lead Tester. Upper Management and test Lead will address the issue and take necessary action. |
| Test cases in Test Specification do not correspond to System Interface delivered | 50% | Moderate | Test Cases may need to be modified to the System Interface that is delivered. |
| Test documents are inconsistent | 25% | Minor | Documents will be review and must be updated according to the schedule outlined in the WBS [6]. |
| Test documents are not completed on time | 25% | Minor | The documents must be completed within 24 hours and all team members notified. |

1. **FEATURE TEST CASES**

The following teat cases will be used for functional requirement testing of the Project Management App.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case Information | | | | |
| Test Case ID | ST 1.0 | | | |
| Owner of Test |  | | | |
| Test Name | Create an Account | | | |
| Test location | Project Management App | | | |
| Date of Last Revision |  | | | |
| Requirement Tested | RS 1.0 | | | |
| Test Configuration | TC 1.0 | | | |
| Test Interdependencies |  | | | |
| Test Objective | Verify that a user can create an account | | | |
| Test Procedure | | | | |
| Test Setup |  | | | |
|  | | | | |
| Step Action | | **Expected Result** | | **Pass( )** |
| 1. Enter “jli724@live.kutztown.edu” in email field | | |  | |
| 2. Enter “Jennifer” in the password field | | |  | |
| 3. Enter “Jennifer” in the confirm password field | | |  | |
| 4. Click the Enter Button | | |  | |
|  | | |  | |
|  | | |  | |
| Test Data |  | | | |
| Test Result | | | | |
| Tester: | **Date of Test:** | | | **Test Result (P/F/B):** |
| Notes: |  | | | |
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|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test Case Information | | | | |
| Test Case ID | ST 1.0 | | | |
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| Test location | Project Management App | | | |
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| Test Result | | | | |
| Tester: | **Date of Test:** | | | **Test Result (P/F/B):** |
| Notes: |  | | | |
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| Owner of Test |  | | | |
| Test Name | Create an Account | | | |
| Test location | Project Management App | | | |
| Date of Last Revision |  | | | |
| Requirement Tested | RS 1.0 | | | |
| Test Configuration | TC 1.0 | | | |
| Test Interdependencies |  | | | |
| Test Objective | Verify that a user can create an account | | | |
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| Test Setup |  | | | |
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1. **SCENARIO TEST CASES**

The following test cases will be used for scenario testing for the Project Management App.

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