**Test Plan-Test Specification**

**Version 2.0**

**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 |
| 1.2 | Jennifer Li | Added Section 4, 5, 7, 8, and 9.  Also made edits on section 2.1, 2.2. and 2.  Added the Testing Case in section 11 and 12. | 2/22/2016 |
|  | Jennifer Li | Added Section 10 and completed all of the Testing cases and scenario cases. | 2/23/2016 |
| 1.3 | Tyler Mariano | Updated test scenarios to match the app screen flow. | 2/26/2016 - 2/28/2016 |
| 2.0 | Jennifer Li | Made grammatical changes on all of the sections. Also updated and removed F.R.12 from the first release to the second release date. | 2/28/2016 |

**1.0 INTRODUCTION**

This document presents the Test and Specification Plan on how and what the Project Management App will be tested. The purpose of testing to ensure that the delivered app is at an appropriate quality. Thus Quality assurance must be taken into consideration. The document will also be outlining test procedures, formulated to validate the Project Management App. In addition, 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 that were agreed upon with the client, 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 will be tested by the intermediate release. The intermediate release date will be on March 4th of 2016.

* 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.13.0) – Verify that leader can view due dates
* RS 9.1 (F.R.13.1) – Verify that member can view due dates
* RS 10.0 (F.R.16.0) – Verify that leader can Logout
* RS 10.1 (F.R.16.1) – Verify that member can Logout
* RS.11.0 (F.R.19.0) – Verify that leader can send invites to members
* RS 12.0 (F.R.20.0) – Verify that leader can view all members

**2.2 Final Release**

The following features will be tested by the final release. The final release date will be on April 30th of 2016.

* RS 13.0 (F.R.12.0) – Verify that member can accept project invitations
* 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 life scenarios. These hypothetical situations will help the tester test the complex mutually dependent functions and how they are correlate. 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 – Verify leader and member interaction of Create a project, Add members, and Send invites to members.
* 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 additional 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 that are describe in section 2.0 must be tested by the developers during system development. 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 and Specification Plan 2.0 | TC 1.0, 2.0 | TO 1.0 - Verify that a user can create an account |
| RS 2.0 | ST 2.0 | Test and Specification Plan 2.0 | TC 1.0, 20 | TO 2.0 – Verify that a user can login using a valid username and password |
| RS 3.0 | ST 3.0 | Test and Specification Plan 2.0 | TC 1.0, 2.0 | TO 3.0 – Verify that a user can create a project |
| RS 4.0 | ST 4.0 | Test and Specification Plan 2.0 | TC 1.0, 2,0 | TO 4.0 – Verify that leader can add members |
| RS 5.0 | ST 5.0 | Test and Specification Plan 2.0 | TC 1.0, 2.0 | TO 5.0 – Verify that leader can assign task |
| RS 6.0 | ST 6.0 | Test and Specification Plan 2.0 | TC 1.0, 2.0 | TO 6.0 – Verify that member can submit completed task |
| RS 7.0 | ST 7.0 | Test and Specification Plan 2.0 | TC 1.0, 2.0 | TO 7.0 – Verify that leader can review submitted task |
| RS 8.0 | ST 8.0 | Test and Specification Plan 2.0 | TC 1.0, 2.0 | TO 8.0 – Verify that leader can view overall progress |
| RS 8.1 | ST 8.1 | Test and Specification Plan 2.0 | TC 1.0, 2.0 | TO 8.1 – Verify that member can view overall progress |
| RS 9.0 | ST 9.0 | Test and Specification Plan 2.0 | TC 1.0, 2.0 | TO 10.0 – Verify that leader can view due dates |
| RS 9.1 | ST 9.1 | Test and Specification Plan 2.0 | TC 1.0, 2.0 | TO 10.1 – Verify that member can view due dates |
| RS 10.0 | ST 10.0 | Test and Specification Plan 2.0 | TC 1.0, 2.0 | TO 11.0 – Verify that leader can Logout |
| RS 10.1 | ST 10.1 | Test and Specification Plan 2.0 | TC 1.0, 2.0 | TO 11.1 – Verify that member can Logout |
| RS 11.0 | ST 11.0 | Test and Specification Plan 2.0 | TC 1.0, 2.0 | TO 12.0 – Verify that leader can send invites to members |
| RS 12.0 | ST 12.0 | Test and Specification Plan 2.0 | TC 1.0, 2.0 | TO 13.0 – Verify that leader can view all members |

**3.2 System Testing**

System testing will be done by the white box tester Tyler and black box tester Jennifer, before the each release date. The first release date will be on March 4th of 2016 and the second release date will be on April 30th of 2016. This test will be testing the functionality of the software using white and black box testing. White box testing will be performed by Tyler and black box testing will be performed by Jennifer. Any defects found will be added to the current version of the MR report. Each defect will be tracked by status and classification which will be explained in more detail in section 4.0 and 5.0.

This testing must be performed on a complete, integrated for the system to be 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 variety of real life scenarios. This testing will verify the, screen and coordination flow of all mutually dependent functions. Refer to the table 3.3 for more detail.

**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 and Specification Plan 2.0 | TC 1.0, 2.0 | TO 22.0 – Verify leader and member interaction of, Create a project, Add members, and Send invites to members. |
| RS 23.0 | ST 23.0 | Test and Specification Plan 2.0 | TC 1.0, 2.0 | TO 23.0 - Verify leader and member interaction of, Assign, task, Submit task, and Review task. |
| RS 24.0 | ST 24.0 | Test and Specification Plan 2.0 | TC 1.0, 2.0 | 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 defect fixes in the test cycle will not break the previously working functionality during the prior release dates. Regression testing will be done by white and black box testers Tyler and Jennifer. This testing will be conducted after each sprint.

* Defects 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 defects 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 severity 1 defects, at least 90% of severity 2 defects, and at least 25% of severity 3 defects 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. This test is use to satisfy the non-functional requirements necessary for this project; it is used to help improve the overall quality of the app.

**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. This test is use to satisfy the non-functional requirements necessary for this project; it is used to help improve the usability of the app.

**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. This test is use to satisfy the non-functional requirements necessary for this project; it is used to support the increasing use of technology in the workforce.

1. **SOFTWARE DEFECT STATES**

Software defect states are used for the purpose of tracking the status of all defects. The cycle starts at state New, when the defect is found and ends when the defect states have been changed to Resolved. If the defect has not been resolved by the end of the cycle, the defect will then restart the cycle with the state of Reactive. The five defect 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 defect still exists even after the defect is fixed by the developer, the tester changes the status to “reactive”. The defect goes through the cycle once again.

1. **SOFTWARE DEFECT SEVERITY**

Defect severity or Impact is a classification of software defect to indicate the degree of negative impact on the quality of software. The classification of severities are defined as follows:

* Severity 1 - A critical error has occurred; the system cannot continue functioning
* Severity 2 - A major functionality does not work; this prevents other functionality from being tested
* Severity 3 - A minor functionality does not work; this is considered a minor defect
* Severity 4 - This is considered an enhancement type of defect that does not affect any functionality

1. **SYSTEM TEST CONFIGURATION**

For the testing process, team A will be using our phones and the nexus tablet, provided by Kutztown University’s Computer Science Department. This testing will take place in room 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 hardware and software requirements that will be need so that the implemented system can be test on. The test configuration that will be used is shown in tables 3.1 and 3.3.

* TC 1.0 – Android Version 5.1.1, Nexus 7
* TC 2.0 – Android Version 5.1.1, Samsung Galaxy Note 4
* TC 3.0 – Android Version 5.1.1, Samsung Galaxy s4

1. **TEST RESPONSIBILITIES**

Both the Development and Test Teams have responsibilities for ensuring the quality of the intended product. Development Team will be comprised of developers Steven and Hector. Test Team will be comprised of white box tester Tyler and black box tester Jennifer.

Development Team responsibilities include:

* Unit Test Features as they are developed
* Prepare the application for intermediate release and final release
* Fix bugs submitted via MR Report

Test Team responsibilities include:

* Run planned tests and create MR Report for developers
* Classify the defects for the MR Report on defects found

1. **TEST ENTRANCE CRITERIA**

There must be a set standard before the tester will accept the system from the development team. The following are the entry criteria that must be met before the system is accepted.

**8.1 Developers**

Developers must complete unit testing and have fixed all assigned defects by the tester described in the MR report. They must also prepare the system, whether if installing or configuring, the system must be up and running for the tester to start testing.

**8.2 Testers**

For testers to accept the system, all severity 1 and 2 defects found in the project management app that is described in the MR report, must be fixed and unit and integration testing must be completed.

1. **TEST SCHEDULE**

Unit and integration testing is expected to be done by the development team, prior to the start of Phase 1 System Testing Cycle. This test cycle will be done before intermediate release on March 4th of 2016. System testing will start on 2/29 to 3/03. Phase 2 System Testing Cycle will be done before the final release date, April 30th of 2016. Phase 2’s system test cycle will be broken down in to three different sprints. Each with their own functional or non-functional requirements to be tested. 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 |
| Phase 1 System Testing Cycle | 2/29 | 3/03 |
|  | F.R. 1,2,3,4,6,7,8,9,13,16,19,20 | Unit testing must be completed by the developers and the start of System testing by the system tester. |
| Phase 2 System Testing Cycle | 4/1 | 4/30 |
|  | Sprint 1 | After sprint 1 unit testing of  F.R. 5,10,11,12,14 must be complete and given to the system tester. |
|  | Sprint 2 | After sprint 2 unit testing of  F.R. 15,17,18 must be completed and given to the system tester. |
|  | Sprint 3 | Reliability, Usability, and Scalability must be tested by system tester. |

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 |
| The room that Team A would be using to conduct testing is not available at the testing time. | 25% | Major | The testing will be done using the computer science lab in Old Main. If this room is not available, the backup room would be in one of the professor’s office. |
| Test cases are not ready by the time of testing. | 10% | Moderate | Testing of functionality should be performed once the test cases have been finalized. |
| Test Plan and Test Specification document is not completed on time | 10% | Minor | The first version of the Test Plan and Test Specification document must be completed by 2/24/26. |
| Test cases in Test Plan and Test Specification do not correspond to User Interface delivered | 50% | Moderate | Test Cases may need to be modified to the User Interface that is delivered. |
| People scheduled to test or take the test survey are not available to complete the desired test | 25% | Moderate | If the survey tester are not available during the scheduled test date; rescheduling the date is a must. Since this is a mobile application, the testing could be done remotely. |
| Due to the releases during the Spring semester, weather may cause an issue which may force a delay in the schedule | 25% | Moderate | If the members of team A are not available during the day of testing due to weather; rescheduling the test day will have to be made. |
| Not tracking defects found during any of the testing phases. | 25% | Moderate | All defects will be document and posted on GitHub so the system tester to view and update the MR report. |
| Not having the proper hardware with the correct environment for testing. | 50% | Major | Three of the four members of team A have android devices that can be used for testing as described in section 6.0 |
| Not having a plan to test the agreed upon functional requirements. | 10% | Minor | The purpose of this document is to plan for testing of the Project Management App. The testing schedule is given in section 9.0. |

**11.0 FEATURE TEST CASES**

The following teat cases will be used for functional requirement testing of the Project Management App. (all test cases subject to change)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case Information | | | | | |
| Test Case ID | ST 1.0 | | | | |
| Owner of Test | Jennifer and Tyler | | | | |
| Test Name | Create an Account | | | | |
| Test location | Old Main 157 | | | | |
| Date of Last Revision | 2/28/16 | | | | |
| Requirement Tested | RS 1.0 | | | | |
| Test Configuration | TC 1.0 , 2.0 | | | | |
| Test Interdependencies | N/A | | | | |
| Test Objective | Verify that a user can create an account | | | | |
| Test Procedure | | | | | |
| Test Setup | Open the application (for the first time) | | | | |
|  | | | | | |
| Step Action | | **Expected Result** | | | **Pass( )** |
| 1. Enter “jli725@live.kutztown.edu” in email field | | | 1. N/A | | |
| 2. Enter “Jennifer” in the password field | | | 2. N/A | | |
| 3. Click the Register Button | | | 3. Call screen appears | | |
|  | | | 4. Direct users to main menu screen | | |
|  | | |  | | |
| Test Data | Email: “jli725@live.kutztown.edu” | | | | |
|  | Password : “Jennifer” | | | | |
| Test Result | | | | | |
| Tester: | **Date of Test:** | | | **Test Result (P/F/B):** | |
| Notes: |  | | | | |
|  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case Information | | | | | |
| Test Case ID | ST 2.0 | | | | |
| Owner of Test | Jennifer and Tyler | | | | |
| Test Name | Login | | | | |
| Test location | Old Main 157 | | | | |
| Date of Last Revision | 2/28/16 | | | | |
| Requirement Tested | RS 2.0 | | | | |
| Test Configuration | TC 1.0, 2.0 | | | | |
| Test Interdependencies | N/A | | | | |
| Test Objective | Verify that a user can login using a valid username and password | | | | |
| Test Procedure | | | | | |
| Test Setup | Open the application | | | | |
|  | | | | | |
| Step Action | | **Expected Result** | | | **Pass( )** |
| 1. Enter “jli725@live.kutztown.edu” in email field | | | 1. N/A | | |
| 2. Enter “Jennifer” in the password field | | | 2. N/A | | |
| 3. Click the “Login” button | | | 3. Call screen | | |
|  | | | 4. User is directed to the Main Menu | | |
|  | | |  | | |
|  | | |  | | |
| Test Data | Email: “jli725@live.kutztown.edu” | | | | |
|  | Password: “Jennifer” | | | | |
| Test Result | | | | | |
| Tester: | **Date of Test:** | | | **Test Result (P/F/B):** | |
| Notes: |  | | | | |
|  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case Information | | | | | |
| Test Case ID | ST 3.0 | | | | |
| Owner of Test | Jennifer and Tyler | | | | |
| Test Name | Create a Project | | | | |
| Test location | Old Main 157 | | | | |
| Date of Last Revision | 2/28/16 | | | | |
| Requirement Tested | RS 3.0 | | | | |
| Test Configuration | TC 1.0 , 2.0 | | | | |
| Test Interdependencies | RS 4.0 | | | | |
| Test Objective | Verify that a user can create a project | | | | |
| Test Procedure | | | | | |
| Test Setup | Assumed user is logged in and on the main menu screen | | | | |
|  | | | | | |
| Step Action | | **Expected Result** | | | **Pass( )** |
| 1. Click the “ + ” button | | | 1. Directs to the create a project screen | | |
| 2. Enter “Flappy Bird” in the project name field | | | 2. N/A | | |
| 3. Enter “Game” in to the project description field | | | 3. N/A | | |
| 4. Click the “Create” button to create a project | | | 5. Directs Leader to the Leader view screen | | |
|  | | |  | | |
| Test Data | Project Name: “Flappy Bird” | | | | |
|  | Project Description: “Game” | | | | |
| Test Result | | | | | |
| Tester: | **Date of Test:** | | | **Test Result (P/F/B):** | |
| Notes: |  | | | | |
|  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case Information | | | | | |
| Test Case ID | ST 4.0 | | | | |
| Owner of Test | Jennifer and Tyler | | | | |
| Test Name | Add Members | | | | |
| Test location | Old Main 157 | | | | |
| Date of Last Revision | 2/28/16 | | | | |
| Requirement Tested | RS 4.0 | | | | |
| Test Configuration | TC 1.0, 2.0 | | | | |
| Test Interdependencies | RS 3.0, RS 9.0, RS 12.0 | | | | |
| Test Objective | Verify that leader can add members | | | | |
| Test Procedure | | | | | |
| Test Setup | Assumed user is logged in and in the leader view screen | | | | |
|  | | | | | |
| Step Action | | **Expected Result** | | | **Pass( )** |
| 1. Click the “Members” button | | | 1. Directs to the Member List screen | | |
| 2. Click the “+” button | | | 2. Directs to the Add Member screen | | |
| 3. Click the name of member “Steven” | | | 3. N/A | | |
| 4. Click the “add” button to complete adding | | | 4. An invitation is sent to the checked members and the app directs the leader to the Leader View | | |
|  | | |  | | |
|  | | |  | | |
| Test Data | N/A | | | | |
|  |  | | | | |
| Test Result | | | | | |
| Tester: | **Date of Test:** | | | **Test Result (P/F/B):** | |
| Notes: |  | | | | |
|  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case Information | | | | | |
| Test Case ID | ST 5.0 | | | | |
| Owner of Test | Jennifer and Tyler | | | | |
| Test Name | Assign Task | | | | |
| Test location | Old Main 157 | | | | |
| Date of Last Revision | 2/28/16 | | | | |
| Requirement Tested | RS 5.0 | | | | |
| Test Configuration | TC 1.0, 2.0 | | | | |
| Test Interdependencies | N/A | | | | |
| Test Objective | Verify that leader can assign task | | | | |
| Test Procedure | | | | | |
| Test Setup | Assumed user is logged in and in the main menu screen | | | | |
|  | | | | | |
| Step Action | | **Expected Result** | | | **Pass( )** |
| 1. Click the “Task” button | | | 1. Directs to the Task List screen | | |
| 2. Click the “+” button | | | 2. Directs to the Add Task screen | | |
| 3. Enter the task name “Enter Name” | | | 3. N/A | | |
| 4. Enter the task description “ Name Tag” | | | 4. N/A | | |
| 4. Click the name of member “Steven” from combo box | | | 4. N/A | | |
| 5. Click the “Create” button | | | 5. Directs to the Leader View screen | | |
|  | | |  | | |
| Test Data | Task Name: “Enter Name” | | | | |
|  | Task Description: “Name Tag” | | | | |
| Test Result | | | | | |
| Tester: | **Date of Test:** | | | **Test Result (P/F/B):** | |
| Notes: |  | | | | |
|  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case Information | | | | | |
| Test Case ID | ST 6.0 | | | | |
| Owner of Test | Jennifer and Tyler | | | | |
| Test Name | Submit Task | | | | |
| Test location | Old Main 157 | | | | |
| Date of Last Revision | 2/28/16 | | | | |
| Requirement Tested | RS 6.0 | | | | |
| Test Configuration | TC 1.0, 2.0 | | | | |
| Test Interdependencies | N/A | | | | |
| Test Objective | Verify that member can submit completed task | | | | |
| Test Procedure | | | | | |
| Test Setup | Assumed user is logged in and in the member view screen | | | | |
|  | | | | | |
| Step Action | | **Expected Result** | | | **Pass( )** |
| 1. Click the “ Task ” button | | | 1. Directs to the Task List screen | | |
| 2. Click the task “Enter Name” | | | 2. Directs to the Task View screen | | |
| 3. Click the “Submit” button | | | 3. Directs member back to the member view | | |
|  | | |  | | |
|  | | |  | | |
| Test Data | N/A | | | | |
|  |  | | | | |
| Test Result | | | | | |
| Tester: | **Date of Test:** | | | **Test Result (P/F/B):** | |
| Notes: |  | | | | |
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| Test Case Information | | | | | |
| Test Case ID | ST 7.0 | | | | |
| Owner of Test | Jennifer and Tyler | | | | |
| Test Name | Submit Task | | | | |
| Test location | Old Main 157 | | | | |
| Date of Last Revision | 2/28/16 | | | | |
| Requirement Tested | RS 7.0 | | | | |
| Test Configuration | TC 1.0, 2.0 | | | | |
| Test Interdependencies | N/A | | | | |
| Test Objective | Verify that leader can review submitted task | | | | |
| Test Procedure | | | | | |
| Test Setup | Assumed user is logged in and in the main menu screen | | | | |
|  | | | | | |
| Step Action | | **Expected Result** | | | **Pass( )** |
| 1. Click the “ Task ” button | | | 1. Directs to the Task List screen | | |
| 2. Click the green task “Enter Name” | | | 2. Directs to the Task View screen | | |
| 3. Click the “Accept” button | | | 3. Directs member back to the leader view | | |
| 3. Click the “Deny” button | | | 3. Prompts leader to reassign the task then directs member back to the leader view | | |
|  | | |  | | |
| Test Data | N/A | | | | |
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| Test Result | | | | | |
| Tester: | **Date of Test:** | | | **Test Result (P/F/B):** | |
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| Test Case Information | | | | | |
| Test Case ID | ST 8.0 | | | | |
| Owner of Test | Jennifer and Tyler | | | | |
| Test Name | View Overall Progress Leader | | | | |
| Test location | Old Main 157 | | | | |
| Date of Last Revision | 2/28/16 | | | | |
| Requirement Tested | RS 8.0 | | | | |
| Test Configuration | TC 1.0, 2.0 | | | | |
| Test Interdependencies | N/A | | | | |
| Test Objective | Verify that leader can view overall project progress | | | | |
| Test Procedure | | | | | |
| Test Setup | Assumed user is logged in and in the leader view screen | | | | |
|  | | | | | |
| Step Action | | **Expected Result** | | | **Pass( )** |
| 1. Click the “Progress” button | | | 1. Directs to the project Progress screen | | |
| 2. Hit the back button to go back to the leader view | | | 2. Directs leader back to the leader view | | |
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|  | | |  | | |
| Test Data | N/A | | | | |
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| Test Result | | | | | |
| Tester: | **Date of Test:** | | | **Test Result (P/F/B):** | |
| Notes: |  | | | | |
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| Test Case Information | | | | | |
| Test Case ID | ST 8.1 | | | | |
| Owner of Test | Jennifer and Tyler | | | | |
| Test Name | View Overall Progress Member | | | | |
| Test location | Old Main 157 | | | | |
| Date of Last Revision | 2/28/16 | | | | |
| Requirement Tested | RS 8.1 | | | | |
| Test Configuration | TC 1.0, 2.0 | | | | |
| Test Interdependencies | N/A | | | | |
| Test Objective | Verify that member can view overall project progress | | | | |
| Test Procedure | | | | | |
| Test Setup | Assumed user is logged in and in the member view screen | | | | |
|  | | | | | |
| Step Action | | **Expected Result** | | | **Pass( )** |
| 1. Click the “Progress” button | | | 1. Directs to the overall project Progress screen | | |
| 2. Hit the back button to go back to the member view | | | 2. Directs member back to the member view screen | | |
|  | | |  | | |
|  | | |  | | |
| Test Data | N/A | | | | |
|  |  | | | | |
| Test Result | | | | | |
| Tester: | **Date of Test:** | | | **Test Result (P/F/B):** | |
| Notes: |  | | | | |
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| --- | --- | --- | --- | --- | --- |
| Test Case Information | | | | | |
| Test Case ID | ST 9.0 | | | | |
| Owner of Test | Jennifer and Tyler | | | | |
| Test Name | View Due Dates Leader | | | | |
| Test location | Old Main 157 | | | | |
| Date of Last Revision | 2/28/16 | | | | |
| Requirement Tested | RS 9.0 | | | | |
| Test Configuration | TC 1.0, 2.0 | | | | |
| Test Interdependencies | N/A | | | | |
| Test Objective | Verify that leader can view due dates | | | | |
| Test Procedure | | | | | |
| Test Setup | Assumed user is logged in and at the leader view screen. | | | | |
|  | | | | | |
| Step Action | | **Expected Result** | | | **Pass( )** |
| 1. Click the “Calendar ” button | | | 1. Directs leader to calendar screen | | |
| 2. Hit the back button to go back to the leader view screen | | | 2. Directs leader back to the leader view screen | | |
|  | | |  | | |
|  | | |  | | |
| Test Data | N/A | | | | |
|  |  | | | | |
| Test Result | | | | | |
| Tester: | **Date of Test:** | | | **Test Result (P/F/B):** | |
| Notes: |  | | | | |
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| --- | --- | --- | --- | --- | --- |
| Test Case Information | | | | | |
| Test Case ID | ST 9.1 | | | | |
| Owner of Test | Jennifer and Tyler | | | | |
| Test Name | View Due Dates Member | | | | |
| Test location | Old Main 157 | | | | |
| Date of Last Revision | 2/28/16 | | | | |
| Requirement Tested | RS 9.1 | | | | |
| Test Configuration | TC 1.0, 2.0 | | | | |
| Test Interdependencies | N/A | | | | |
| Test Objective | Verify that member can view due dates | | | | |
| Test Procedure | | | | | |
| Test Setup | Assumed user is logged in and at the member view screen. | | | | |
|  | | | | | |
| Step Action | | **Expected Result** | | | **Pass( )** |
| 1. Click the “Calendar ” button | | | 1. Directs member to calendar screen | | |
| 2. Hit the back button to go back to the member view | | | 2. Directs member back to the member view | | |
|  | | |  | | |
|  | | |  | | |
| Test Data | N/A | | | | |
|  |  | | | | |
| Test Result | | | | | |
| Tester: | **Date of Test:** | | | **Test Result (P/F/B):** | |
| Notes: |  | | | | |
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| --- | --- | --- | --- | --- | --- |
| Test Case Information | | | | | |
| Test Case ID | ST 10.0 | | | | |
| Owner of Test | Jennifer and Tyler | | | | |
| Test Name | Logout Leader | | | | |
| Test location | Old Main 157 | | | | |
| Date of Last Revision | 2/28/16 | | | | |
| Requirement Tested | RS 10.0 | | | | |
| Test Configuration | TC 1.0, 2.0 | | | | |
| Test Interdependencies | N/A | | | | |
| Test Objective | Verify that leader can Logout | | | | |
| Test Procedure | | | | | |
| Test Setup | Assumed user is logged in | | | | |
|  | | | | | |
| Step Action | | **Expected Result** | | | **Pass( )** |
| 1. Click the menu button | | | 1. Opens the drop down menu | | |
| 2. Click the “Logout ” button | | | 2. Logs the user out and directed to Login screen | | |
|  | | |  | | |
| Test Data | N/A | | | | |
|  |  | | | | |
| Test Result | | | | | |
| Tester: | **Date of Test:** | | | **Test Result (P/F/B):** | |
| Notes: |  | | | | |
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| --- | --- | --- | --- | --- | --- |
| Test Case Information | | | | | |
| Test Case ID | ST 10.1 | | | | |
| Owner of Test | Jennifer and Tyler | | | | |
| Test Name | Logout Member | | | | |
| Test location | Old Main 157 | | | | |
| Date of Last Revision | 2/28/16 | | | | |
| Requirement Tested | RS 10.1 | | | | |
| Test Configuration | TC 1.0, 2.0 | | | | |
| Test Interdependencies | N/A | | | | |
| Test Objective | Verify that member can Logout | | | | |
| Test Procedure | | | | | |
| Test Setup | Assumed user is logged in | | | | |
|  | | | | | |
| Step Action | | **Expected Result** | | | **Pass( )** |
| 1. Click the menu button | | | 1. Opens the drop down menu | | |
| 2. Click the “Logout ” button | | | 2. Logs the user out and directed to Login screen | | |
|  | | |  | | |
| Test Data | N/A | | | | |
|  |  | | | | |
| Test Result | | | | | |
| Tester: | **Date of Test:** | | | **Test Result (P/F/B):** | |
| Notes: |  | | | | |
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| --- | --- | --- | --- | --- | --- |
| Test Case Information | | | | | |
| Test Case ID | ST 11.0 | | | | |
| Owner of Test | Jennifer and Tyler | | | | |
| Test Name | Send Invites | | | | |
| Test location | Old Main 157 | | | | |
| Date of Last Revision | 2/28/16 | | | | |
| Requirement Tested | RS 11.0 | | | | |
| Test Configuration | TC 1.0, 2.0 | | | | |
| Test Interdependencies | RS 3.0, RS 4.0, RS 9.0 | | | | |
| Test Objective | Verify that leader can send invites to members | | | | |
| Test Procedure | | | | | |
| Test Setup | Assumed user is logged in and in the Leader View screen | | | | |
|  | | | | | |
| Step Action | | **Expected Result** | | | **Pass( )** |
| 1. Click the “Member” button | | | 1. N/A | | |
| 1. Click the “+” button | | | 1. N/A | | |
| 1. Click the checkbox next the name of member “Steven” | | | 1. The empty check box becomes checked | | |
| 2. Click the “Invite” button to invite all checked members | | | 2. Directs leader back to the Leader View screen | | |
|  | | |  | | |
| Test Data | N/A | | | | |
|  |  | | | | |
| Test Result | | | | | |
| Tester: | **Date of Test:** | | | **Test Result (P/F/B):** | |
| Notes: |  | | | | |
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| --- | --- | --- | --- | --- | --- |
| Test Case Information | | | | | |
| Test Case ID | ST 12.0 | | | | |
| Owner of Test | Jennifer and Tyler | | | | |
| Test Name | View All Members | | | | |
| Test location | Old Main 157 | | | | |
| Date of Last Revision | 2/28/16 | | | | |
| Requirement Tested | RS 12.0 | | | | |
| Test Configuration | TC 1.0, 2.0 | | | | |
| Test Interdependencies | RS 4.0 | | | | |
| Test Objective | Verify that leader can view all members | | | | |
| Test Procedure | | | | | |
| Test Setup | Assumed user is logged in and in the Leader View screen | | | | |
|  | | | | | |
| Step Action | | **Expected Result** | | | **Pass( )** |
| 1. Click the “Members” button | | | 1. Directs leader to the member list screen | | |
| 2. Hit the back button to go back to the Leader View | | | 2. Directs leader back to the Leader View screen | | |
|  | | |  | | |
|  | | |  | | |
| Test Data | N/A | | | | |
|  |  | | | | |
| Test Result | | | | | |
| Tester: | **Date of Test:** | | | **Test Result (P/F/B):** | |
| Notes: |  | | | | |
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**----------------------Final Release Test Cases---------------**

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| --- | --- | --- | --- | --- | --- |
| Test Case Information | | | | | |
| Test Case ID | ST 13.0 | | | | |
| Owner of Test | Jennifer and Tyler | | | | |
| Test Name | Accept Project Invites | | | | |
| Test location | Old Main 157 | | | | |
| Date of Last Revision | 2/28/16 | | | | |
| Requirement Tested | RS 13.0 | | | | |
| Test Configuration | TC 1.0 , 2.0 | | | | |
| Test Interdependencies | RS 3.0, RS 4.0, RS 12.0 | | | | |
| Test Objective | Verify that member can accept project invitations via email | | | | |
| Test Procedure | | | | | |
| Test Setup | N/A | | | | |
|  | | | | | |
| Step Action | | **Expected Result** | | | **Pass( )** |
| 1. Click the “Accept” button in the email | | | 1. The user has been added to the project and it will now show up in their main menu project list next time they open the app | | |
|  | | |  | | |
|  | | |  | | |
| Test Data | N/A | | | | |
|  |  | | | | |
| Test Result | | | | | |
| Tester: | **Date of Test:** | | | **Test Result (P/F/B):** | |
| Notes: |  | | | | |
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**12.0 SCENARIO TEST CASES**

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

(all test cases subject to change)

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| --- | --- | --- | --- | --- | --- |
| Test Case Information | | | | | |
| Test Case ID | ST 22.0 | | | | |
| Owner of Test | Jennifer and Tyler | | | | |
| Test Name | Create an Project, Add Members, and Send invites | | | | |
| Test location | Old Main 157 | | | | |
| Date of Last Revision | 2/28/16 | | | | |
| Requirement Tested | RS 22.0 | | | | |
| Test Configuration | TC 1.0, 2.0 | | | | |
| Test Interdependencies | N/A | | | | |
| Test Objective | Verify leader and member interaction of, Create a project, Add members, Send invites to members, and Accept project invitations. | | | | |
| Test Procedure | | | | | |
| Test Setup | Assumed that a user is logged in | | | | |
|  | | | | | |
| Step Action | | **Expected Result** | | | **Pass( )** |
| 1. User clicks “+” on the Main Menu screen and enter “Angry Birds” for Project Name and enter “Game” for the project description the needed project information and then clicks “Create”. | | | 1. Directs to the create a project screen.  1.2. N/A  1.3. N/A  1.4. 5. Directs Leader to the Leader view screen | | |
| 2. Leader then clicks the “Members” button via the Leader View Screen and then clicks the “+” button. | | | 2. Directs to the Member List screen  2.1. Directs to the Add Member screen | | |
| 3. Leader selects “Hector” and “Steven” via check boxes and then clicks the “Invite” button which will send invites to the corresponding members. | | | 3.N/A  3.2. An invitation is sent to the checked members and the app directs the leader to the Leader View | | |
|  | | |  | | |
| Test Data | Project Name: “Angry Birds” | | | | |
|  | Project Description: “Game” | | | | |
| Test Result | | | | | |
| Tester: | **Date of Test:** | | | **Test Result (P/F/B):** | |
| Notes: |  | | | | |
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| --- | --- | --- | --- | --- | --- |
| Test Case Information | | | | | |
| Test Case ID | ST 23.0 | | | | |
| Owner of Test | Jennifer and Tyler | | | | |
| Test Name | Assign, Submit, and Review Task | | | | |
| Test location | Old Main 157 | | | | |
| Date of Last Revision | 2/28/16 | | | | |
| Requirement Tested | RS 23.0 | | | | |
| Test Configuration | TC 1.0, 2.0 | | | | |
| Test Interdependencies | N/A | | | | |
| Test Objective | Verify leader and member interaction of, Assign, task, Submit task, and Review task. | | | | |
| Test Procedure | | | | | |
| Test Setup | Assumed that leader and member is logged in | | | | |
|  | | | | | |
| Step Action | | **Expected Result** | | | **Pass( )** |
| 1. Leader clicks “+” button via task view screen | | | 1. Directs to the Add Task screen | | |
| 2. Leader creates a task name “Age”, task description “The age of the member” and click member “Tyler” form the combo box | | | 2. N/A | | |
| 3. Leader clicks “Create” button | | | 3. Directs to the Leader View screen | | |
| 4. Member clicks “Task” button | | | 4. Directs to task list screen | | |
| 5. Member selects “Age” task from list | | | 5. Directs to task view screen | | |
| 6. Member performs the task | | | 6. Tell the leader your age | | |
| 7. Member clicks “Submit Task” button | | | 7. Directs member back to the member view | | |
| 8. Leader selects a green task from list | | | 8. Directs to the Task View screen | | |
| 9. Leader will click the “Accept” button | | | 9. Directs member back to the leader view | | |
| Test Data | Task Name: “Age” Task Description: “The age of the member” | | | | |
|  |  | | | | |
| Test Result | | | | | |
| Tester: | **Date of Test:** | | | **Test Result (P/F/B):** | |
| Notes: |  | | | | |
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| --- | --- | --- | --- | --- | --- |
| Test Case Information | | | | | |
| Test Case ID | ST 24.0 | | | | |
| Owner of Test | Jennifer and Tyler | | | | |
| Test Name | Login, Views, and Logout | | | | |
| Test location | Old Main 157 | | | | |
| Date of Last Revision | 2/28/16 | | | | |
| Requirement Tested | RS 24.0 | | | | |
| Test Configuration | TC 1.0, 2.0 | | | | |
| Test Interdependencies | N/A | | | | |
| Test Objective | Verify leader and member can Login, View overall progress, View due dates, Logout | | | | |
| Test Procedure | | | | | |
| Test Setup | N/A | | | | |
|  | | | | | |
| Step Action | | **Expected Result** | | | **Pass( )** |
| 1. Login in as a leader or a member – Enter “jli725@live.kutztown.edu” and “Jennifer” in the email and password field. Then click “Login” button. | | | 1. N/A  1.2. N/A  1.3. Call screen  1.4. User is directed to the Main Menu | | |
| 2. Click the “Progress” button | | | 2. Directs to the Project Progress screen | | |
| 3. View it, Then click the back key | | | 3. Directs leader back to the leader view | | |
| 4. Click the “Calendar” button | | | 4. Directs leader to calendar screen | | |
| 5. View it, Then click the back key | | | 5. Directs leader back to the leader view screen | | |
| 6. Click the menu button | | | 6. Opens the drop down menu | | |
| 7. Then click the “Logout” button | | | 7. Logs the user out and directed to Login screen | | |
| Test Data | Email: “jli725@live.kutztown.edu” Password: “Jennifer” | | | | |
| Test Result | | | | | |
| Tester: | **Date of Test:** | | | **Test Result (P/F/B):** | |
| Notes: |  | | | | |
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