Team 4

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Test Plan

Commerce Bank Ideabank

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| Version | Date | Author | Change Description |
| 1 | 11/16/14 | Jordan Larson | Initial Document |
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**1. Introduction**

This test plan document will outline future faults and failures expected in the software. To reduce the amount of potential failures, faults must receive the most scrutiny – after all, faults lead to eventual failures. This document will outline the testing methodologies used for the Commerce Bank IdeaBank.

**2. Items Tested**

Primary items and features that will be tested include the following:

* Ability for a user to submit a new project
  + Submit a new project with all fields completed – Test case 1.1.1
  + Attach a document to a new submission – Test case 1.1.2
  + Attach a file to a new submission – Test case 1.1.3
* Ability for a user to view all current proposed projects
  + Including features enabling the user to sort by the following criteria
    - Submission date – Test case 2.1.1
    - Last activity date – Test case 2.1.2
    - Participant name – Test case 2.1.3
    - Project status – Test case 2.1.4
* Ability for a user to edit a project
  + Modifications made by submitting user
    - Edit all fields – Test case 3.1.1
    - Add a new file/document – Covered in 1.1.3
    - Remove existing file/document – Test case 3.1.2
    - Delete a project (in early stages) – Test case 3.1.3
  + Modifications reserved for admins & ambassadors
    - Change status of a project – Test case 3.2.1
  + Modifications reserved only for admins
    - Archive a project – Test case 3.3.1
    - Decline a project – Test case 3.3.2
* Ability for an admin to view and Print Monthly / Weekly report
  + Monthly Reports & Weekly Reports are broken down in each of the following test cases:
    - View a set of projects with a common university – Test cases 4.1.1 & 4.1.2
    - View a set with a common status – Test cases 4.2.1 & 4.2.2
    - View a set with a common contributor – Test cases 4.3.1 & 4.3.2
    - View a set with a common ambassador – Test cases 4.4.1 & 4.4.2

**3. Approach**

NUnit will be used for unit testing. The Test Specifications document has all information for specific unit tests. Besides unit tests, system tests will also be performed which will consist of a methodology involving most of the development team. The development team members will act as users interacting with the software.

The tests listed above will serve as a means to discover most high priority faults in the code, and more tests may be added in the future. Our team will rely mostly on white box testing in the form of NUnit tests to discover faults. The manual system testing that will occur later will hopefully catch any issues we do not discover through NUnit testing.

During the current iteration (iteration 4) test cases 1.1.1 through 4.4.2 should be complete at a date before iteration 4 and 5 (circa November 26). This will allow time for the group to consider applying user testing as well, assuming more work can be done on the desired features of the IdeaBank.

After most tests are complete for future iterations, all tests will be performed again for older iterations, to ensure no new bugs have developed in legacy code.

**4. Test Deliverables**

Other test deliverables will include the Test Specifications document – which will be released along with the Test Plan – and a Test Report document, which will list the results of each test period, along with a breakdown of bugs discovered and their specifics. The Test Report will include incident reports, defect reports, and change reports.

**5. Testing Tasks**

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| **Deliverables** | **Activities** |
| **Test Plan** | * Analyze Requirements for System Features * Determine Features to be Tested * Develop Approach for testing * Determine Tasks and Estimate Efforts of Each * Develop Schedule for Testing |
| **Test Specifications** | * Analyze Test Requirements * Define Test Cases According to Test Plan |
| **Test Reports** | * Document Incidents * Document Defects * Determine Severity of Incidents & Defects * Determine Necessary Changes to be Made to System * Document and Submit Change Requests to Developers |

**6. Schedule**

At this time, Test Schedules are TBD along with their corresponding efforts. Please view the Project Plan in the meantime for more details on project and milestone deadlines

**7. Required Resources**

NUnit is required for unit testing. A helper software may be utilized but that is TBD at this point.