**Title: The Hive Test Plan**

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The HIVE

Test Plan

Revision History

|  |  |  |
| --- | --- | --- |
| **Version number & date** | **Revised by** | **Description of changes** |
| Draft  10/15/2013 | Wesley Flowers | Revised draft |
| Final  11/17/2013 | William Pegg | Revised draft – finalize draft |

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# Introduction

## Purpose of The Document

This documents describes the testing plan for the Hive Project management system. This test plan maintains the following goals:

* Identify the recommended test requirements
* List and outline the recommended test strategies
* Identify test deliverables

# Functional Testing

## Test Risks / Issues

Some features/functions may go untested or lack thorough testing do to certain functionality changes.

## Items to be Tested / Not Tested

Functional requirements from the SRS covered in this testing include FR- 2 to FR – 22. These are key functional requirements that determine the systems core functionality along with certain system operating criteria.

## Test Approach(s)

The requirements will be tested through a serious of functional tests designed to test the aforementioned functional requirements. The system will be tested against a predetermined set of steps with a supplementary set of expected results. These tests are combined to include certain testing scenarios to allow for appropriate testing coverage.

## Test Pass / Fail Criteria

The system passes the test if and only if it fulfills the desired/expected result with the assumption that each step was followed during the test procedure. A test fails if the system does not produce the expected/desired results.

## Test Entry / Exit Criteria

Testing will resume until all or nearly all tests have been passed following the necessary system revisions.

## Test Deliverables

The deliverables are the testing results and the possible resulting system revisions.

# Data and Database integrity Testing

## Test Risks / Issues

The system data will be varied throughout the development cycle. It is possible that data integrity will not necessarily reflect that of the final system iteration.

## Items to be Tested / Not Tested

Items to be tested include

* The system’s ability to retrieve system data
* The system’s ability to search and sort system data
* The system’s ability to modify, delete and store data

## Test Approach(s)

The systems data integrity will be tested from a series of steps dictating various search and sorts of system data. Additionally there test scenarios for data modification, deletion and storage.

## Test Pass / Fail Criteria

The data testing pass and fail criteria follows the same guidelines as the functional testing. If the expected results are produce the test passes otherwise it will be noted as a test failure.

## Test Entry / Exit Criteria

Data integrity is substantially important to the functional performance of the system and will be tested until it passes all tests.

## Test Deliverables

Test deliverables will to be included in the same test report as the functional testing.

# Security and Access Control testing

## Test Risks / Issues

Testing risks for security functionality are minimal. There is danger that access control will be completely tested due to time constraints/schedule delays.

## Items to be Tested / Not Tested

Items to be tested include functional requirements FR-1 to FR-3 from the SRS.

## Test Approach(s)

The testing approach follows a set of test scenarios that are similar to that of the functional test cases. There are predetermined steps with expected/desired results

## Test Pass / Fail Criteria

Tests pass if the system produces the expected/desired results. Results not matching the expected produce test failure.

## Test Entry / Exit Criteria

Testing will be conducted until system has passed all the test scenarios.

## Test Deliverables

Test results will be included in the full testing report with all other test results.

## Test Cases

| **Test Case** | **Transaction name** | **Test Steps** | **Expected Results** | **Pass** | **Fail** | **Comments** |
| --- | --- | --- | --- | --- | --- | --- |
| **1** | Registration | Blank First Name | Error message | X |  |  |
| **2** | Registration | Blank Last Name | Error message | X |  |  |
| **3** | Registration | Invalid Email | Error message | X |  |  |
| **4** | Registration | Invalid Email confirmation | Error message | X |  |  |
| **5** | Registration | Blank Password | Error message | X |  |  |
| **6** | Registration | Invalid Password confirmation | Error message | X |  |  |
| **7** | Registration | Valid Registration input | Successfully registered | X |  |  |
| **8** | Login | Invalid Username | Error message |  | X | No error message |
| **9** | Login | Invalid Password | Error message |  | X | No error message |
| **10** | Login | Valid Login information | Successfully login | X |  |  |
| **11** | Search | Search username | Displayed a list of usernames matching the search |  | X | Cannot search with spaces. |
| **12** | Search | Search group name | Displayed a list of group names matching the search |  | X | Cannot search with spaces. |
| **13** | Search | Open searched username | View profile page of username opened | X |  |  |
| **14** | Search | Open searched group | View group page of group name opened | X |  |  |
| **15** | Friends Main | Open friends tab | View main friend page | X |  |  |
| **16** | Friends Profile | View friend profile | View profile page of friend | X |  |  |
| **17** | Friends Groups | View friend group page | View group page of friend | X |  |  |
| **18** | Profile Main | Open profile tab | View main profile page | X |  |  |
| **19** | Profile File | No file selected to upload to profile page | Error message | X |  |  |
| **20** | Profile File | Upload file to profile page | File successfully uploaded to profile page | X |  |  |
| **21** | Profile File | Open file on profile page | File successfully opened from profile page | X |  |  |
| **22** | Profile File | Save file from profile page | File successfully saved from profile page | X |  |  |
| **23** | Profile Groups | Open group on profile page | View group page | X |  |  |
| **24** | Group Main | Open group tab | View main group page | X |  |  |
| **25** | Group Create | Blank new group name | Error message | X |  |  |
| **26** | Group Create | Blank new course number | Error message | X |  |  |
| **27** | Group Create | Blank new group description | Error message | X |  |  |
| **28** | Group Create | Valid new group information input | Successfully created group | X |  |  |
| **29** | Group View | Open group on group page | View group page | X |  |  |
| **30** | Group Info | View group information | View group information | X |  |  |
| **31** | Group Edit | Blank edited group name | Error message | X |  |  |
| **32** | Group Edit | Blank edited course name | Error message | X |  |  |
| **33** | Group Edit | Blank edited group description | Error message | X |  |  |
| **34** | Group Edit | Valid edited group information input | Successfully edited group information | X |  |  |
| **35** | Group Members | View group members | View group member profile page | X |  |  |
| **36** | Group Discussion Main | View discussions | View main discussion page | X |  |  |
| **37** | Group Discussion Topic Create | Blank new topic | Error message | X |  |  |
| **38** | Group Discussion Topic Create | Valid new topic | Topic successfully created | X |  |  |
| **39** | Group Discussion Topic Datetime | Topic submission datetime is correct | Datetime is correct | X |  |  |
| **40** | Group Discussion Comment Create | Blank new comment | Error message | X |  |  |
| **41** | Group Discussion Comment Create | Valid new comment | Comment successfully added | X |  |  |
| **42** | Group Discussion Comment Create Datetime | Comment submission datetime is correct | Datetime is correct | X |  |  |
| **43** | Group Discussion Comment Reply | Blank new reply | Error message | X |  |  |
| **44** | Group Discussion Comment Reply | Valid new reply | Reply successfully added | X |  |  |
| **45** | Group Discussion Comment Reply Datetime | Reply submission datetime is correct | Datetime is correct | X |  |  |
| **46** | Group Repository Main | View repository | View main repository page | X |  |  |
| **47** | Group File | No file selected to upload to group page | Error message | X |  |  |
| **48** | Group File | Upload file to group page | File successfully uploaded to group page | X |  |  |
| **49** | Group File | Open file on group page | File successfully opened from group page | X |  |  |
| **50** | Group File | Save file from group page | File successfully saved from group page | X |  |  |
| **51** | Settings Main | View profile settings | View profile settings | X |  |  |
| **52** | Settings Edit | Invalid edited profile picture | Error message |  | X | Edited profile picture was successful when I uploaded a .doc file. |
| **53** | Settings Edit | Valid edited profile picture | Successfully edited profile picture |  | X | Profile picture did not update with new png. |
| **54** | Settings Edit | Blank edited First Name | Error message | X |  |  |
| **55** | Settings Edit | Blank edited Last Name | Error message | X |  |  |
| **56** | Settings Edit | Invalid edited Email | Error message | X |  |  |
| **57** | Settings Edit | Invalid edited Password | Error message | X |  |  |
| **58** | Settings Edit | Invalid edited Password Confirmation | Error message |  | X | Showing as successful when I leave the password confirmation blank and does not accept the change in this case. |
| **59** | Settings Edit | Valid edited profile settings | Successfully edited profile settings | X |  |  |