

Test Plan Document

(TPD)

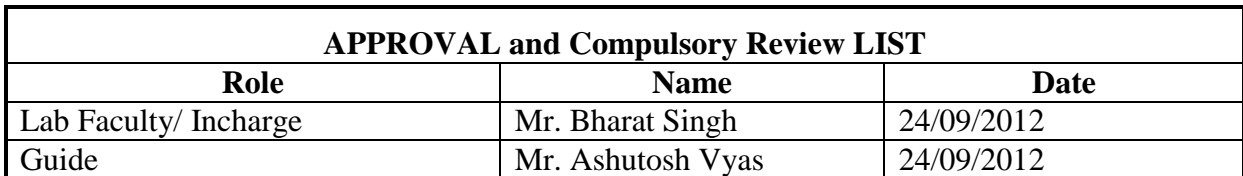
For

Quick Share

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Table of Contents

1.0 INTRODUCTION	IV
2.0 SYSTEM TEST	
2.1 System passing Criteria	v
2.2 Functionalities Test	v
2.3 Functionalities to be not tested or verified	vvii
3.0 TEST SETUP	VIII
3.1 Hardware	viii
3.2 Software	viii
3.3 Test Configuration	viii
4.0 TEST CASE SPECIFICATION	VIII
4.1 Test Case: QS_TC1	viii
4.1.1 Objectives	viii
4.1.2 Module / Class /Function	viii
4.1.3 Test Configuration	viii
4.1.4 Expected Output or Results	viii
4.1.5 Test Passing Criteria	ix
4.2 Test Case: QS_TC2	x
4.2.1 Objectives	x
4.2.2 Module / Class /Function	x
4.2.3 Test Configuration	x
4.2.4 Expected Output or Results	x
4.2.5 Test Passing Criteria	xi
4.3 Test Case: QS_TC3	xii
4.3.1 Objectives	xii
4.3.2 Module / Class /Function	xii
4.3.3 Test Configuration	xii
4.3.4 Expected Output or Results	xii
4.3.5 Test Passing Criteria	xiii
4.4 Test Case: QS_TC4	xiv
4.4.1 Objectives	xiv
4.4.2 Module / Class /Function	xiv
4.4.3 Test Configuration	xiv
4.4.4 Expected Output or Results	xiv
4.4.5 Test Passing Criteria	xiv



4.5	Test Case: QS_TC5	xv
4.5.1	<i>Objectives</i>	xv
4.5.2	Module / Class /Function	xix
4.5.3	Test Configuration	xix
4.5.4	Expected Output or Results	xix
4.5.5	Test Passing Criteria	xx
4.6	Test Case: QS_TC6	xix
4.6.1	Objectives	xix
4.6.2	Module / Class /Function	xix
4.6.3	Test Configuration	xix
4.6.4	Expected Output or Results	xix
4.6.5	Test Passing Criteria	xx
5.0	ABBREVIATIONS, ACRONYMS AND DEFINITIONS	XVIII
6.0	REFERENCES	XIII



1.0 Introduction

Quick Share is a file sharing application based on friend to friend (a modified form of P2P) file transfer architecture. The application is intended to solve cumbersome problem of file sharing between two or more users involving use of flash disks, cabled devices etc.

The Quick Share file sharing application is based on two key functions. They are

- Simple, pre-configured User Interface
- Faster file transfer

Quick Share uses RFC 959 for FTP and RFC 1180 for TCP/IP implementation.



2.0 System Test

2.1 System passing Criteria

The main passing criterion for the system is that the system should be able to transfer a given file from one peer to other peer without any errors or corruption in file. The criteria is said to be fulfilled when a file has been transferred in the given time limit also.

2.2 Functionalities Test

Requirement ID / Test ID	Module	Features
QS_TC1	Login	Here the validation of Username and Password given by the user will be done.
QS_TC2	Create Group	In this module the set of IP addresses provided by user are checked for consistency. The module is passed if the IP addresses are unique for every group belonging to individual users.
QS_TC3	Update User Group	Here the consistency of new or updated IP address is checked as passing criterion.
QS_TC4	Set Connection	This module is used to select available connections. The module would be tested for proper establishment of a WAN/LAN connection.
QS_TC5	Select File	In this module the user has to select a file. The file must be of a size less than specified limit.
QS_TC6	Share	In this module the user can send file. The file should be transferred successfully.



2.3 Functionalities to be not tested or verified

The alpha version of the application is exempted from following tests:

- Transfer of file of large sizes
- Dynamic update of IP addresses according to location.
- Compatibility of application with other platforms.



3.0 Test Setup

3.1 Hardware

The Hardware requirements for the application are:

- User Interface: Keyboard, Mouse.
- Network component: Network Interface Card.
- Processor: Pentium IV or Higher.
- Hard Disk: At least 10 GB of free space.
- RAM: 1GB or more.

3.2 Software

The software requirements are:

- Operating System: Windows XP or Higher.
- Java Runtime Environment 1.6 or Higher.
- IDE/Platform: Eclipse Helios 4.2
- MySQL 5.5.27

3.3 Test Configuration

Test Case ID	Starting Date	Completion Date	Execution
QS_TC1	21/01/2013	28/01/2013	Testing the Login Module.
QS_TC2	28/01/2013	4/02/2013	Testing the Create Group Module.
QS_TC3	4/02/2013	11/02/2013	Testing the Update User Group Module.
QS_TC4	11/02/2013	18/02/2013	Testing the Set Connection Module.
QS_TC5	18/02/2013	25/02/2013	Testing the Select File Module.
QS_TC6	25/02/2013	4/03/2013	Testing the application



4.0 Test Case Specification

4.1 Test Case: QS_TC1

4.1.1 Objectives

The test case QS_TC1 is designed to check the Login functionality of the application.

4.1.2 Module / Class /Function

Module: Login

Class: Validate_User

Functions:

Input_Login ()

ToSetConnection_Page ()

4.1.3 Test Configuration

Test Case ID	Starting Date	Completion Date	Execution
QS_TC1	21/01/2013	28/01/2013	Login module would be bug and error free if application is started when provided with user credentials.

4.1.4 Expected Output or Results

The expected results from the Test Case are:

Test Case	Result
QS_TC1	User can run the application after a successful Login. If the credentials are incorrect, application cannot be used.



4.1.5 Test Passing Criteria

Test Case	Passing Criteria
QS_TC1	User is directed to next UI form only if the credentials inputted are correct as given in database earlier.



4.2 Test Case: QS_TC2

4.2.1 Objectives

The test case QS_TC2 is designed to check the Create Group functionality of the application. The Create Group option helps the users to create a list of peers in a group when they are using the application for the first time.

4.2.2 Module / Class /Function

Module: Create Group

Class: Create_UserGroup

Functions:

Input_User ()

ToSendFile_Page ()

4.2.3 Test Configuration

Test Case ID	Starting Date	Completion Date	Execution
QS_TC2	28/01/2013	4/02/2013	Create Group module would be bug and error free if application prompts user to create a user group only when used for first time. Database should be updated accordingly.

4.2.4 Expected Output or Results

The expected results from the Test Case are:

Test Case	Result
QS_TC2	The user group is created. The file to be sent can now be shared with users of the above group.



4.2.5 Test Passing Criteria

Test Case	Passing Criteria
QS_TC2	Number of users added in the group should not exceed the limit as per level. The IP addresses should be consistent IPv4 addresses.



4.3 Test Case: QS_TC3

4.3.1 Objectives

The test case QS_TC3 is designed to check the Update Group functionality of the application. The Update Group option helps the users to update the details of users added earlier.

4.3.2 Module / Class /Function

Module: Update User Group

Class: Update_UserGroup

Functions:

Add_User ()

Remove_User ()

ToSendFile_Page ()

Update_User

4.3.3 Test Configuration

Test Case ID	Starting Date	Completion Date	Execution
QS_TC3	4/01/2013	11/02/2013	Update user Group module would be bug and error free if user is able to add/remove/modify user details as per his discretion. Database should be updated accordingly.

4.3.4 Expected Output or Results

The expected results from the Test Case are:

Test Case	Result
QS_TC3	The existing user group is updated. The file to be sent can now be shared with users of the above group.



4.3.5 Test Passing Criteria

Test Case	Passing Criteria
QS_TC3	Number of users added in the group should not exceed the limit as per level. The IP addresses should be consistent IPv4 addresses.



4.4 Test Case: QS_TC4

4.4.1 Objectives

The test case QS_TC4 is designed to check the Set up Connection functionality of the application. This option helps the user to select the available connection.

4.4.2 Module / Class /Function

Module: Set up Connection

Class: Connect_User

Functions:

Check_Connection ()

Connect_User ()

4.4.3 Test Configuration

Test Case ID	Starting Date	Completion Date	Execution
QS_TC4	11/02/2013	18/02/2013	Set Connection module would be bug and error free if user can connect to available connection using drop down menu.

4.4.4 Expected Output or Results

The expected results from the Test Case are:

Test Case	Result
QS_TC4	Available Internet connection is established successfully.

4.4.5 Test Passing Criteria

Test Case	Passing Criteria
QS_TC4	The available connections should be displayed. The user should be able to connect to the Internet successfully.



4.5 Test Case: QS_TC5

4.5.1 Objectives

The test case QS_TC5 is designed to check the Select File functionality of the application. This option helps the user to select the desired file from memory.

4.5.2 Module / Class /Function

Module: Select File

Class: Select_File

Functions:

Select_File ()

4.5.3 Test Configuration

Test Case ID	Starting Date	Completion Date	Execution
QS_TC5	18/02/2013	25/02/2013	Select File module would be bug and error free if user can select desired file using browsing window. The file should be less than specified size.

4.5.4 Expected Output or Results

The expected results from the Test Case are:

Test Case	Result
QS_TC5	The user should be able to select desired file.

4.5.5 Test Passing Criteria

Test Case	Passing Criteria
QS_TC5	The file should be selected as well as sent successfully.



4.6 Test Case: QS_TC6

4.6.1 Objectives

The test case QS_TC6 is designed to check the main functionality of the application i.e. to send the file from one peer to other peer.

4.6.2 Module / Class /Function

Module: Share

Class: Share_File

Functions:

ToSend_Page ()

4.6.3 Test Configuration

Test Case ID	Starting Date	Completion Date	Execution
QS_TC6	25/02/2013	04/03/2013	Share module would be bug and error free if the selected file is transferred to all the peers of group successfully.

4.6.4 Expected Output or Results

The expected results from the Test Case are:

Test Case	Result
QS_TC6	The file is transferred to other peers in the group created by the users.

4.6.5 Test Passing Criteria

Test Case	Passing Criteria
QS_TC6	The file should be sent successfully and without any errors.



5.0 Abbreviations, Acronyms and Definitions



6.0 References
