System and Unit Test Report

Product: BackupBuddies
Team: Free Cloud Backups

Include a document under GIT called *Testing*. Include in this document a list of the tests you have performed for each unit and for the entire system. For acceptance test, you will choose a number of tests from the system test to demonstrate the functionality of the system. **Automated build and unit tests.** FOR EXTRA CREDIT, your project can be automatically built (using Jenkins/Hudson, and unit tests automatically run. It is possible to run the product executable that is created by this automated build process). EXTRA CREDIT for automatic building and testing.

Common tasks:
    JOIN A NETWORK:
        Start BackupBuddies
        In the "Peer IP" field, type "planetguy.sandcats.io"
        In the "Password" field, type "walrus"
        Click the "Join" button

Units:
Sprint 1:
As a user, I want an easy to use GUI for uploading and downloading files because I am technically challenged.
Start BackupBuddies
Check that a GUI appears
As a user, I want to create and join a network of trusted devices of my choosing, so I can store files on them
JOIN A NETWORK
event log shows if connection to the network succeeded or failed
other users and files are shown in the app
As a user, I want to be able to list all devices in the network and see their status, so I can choose one to store a file on
JOIN A NETWORK
Check that the GUI shows a list of peers
As a user, I want to store and retrieve specific files on other devices, so that if my device fails, the files will not be lost.
JOIN A NETWORK
Click on a peer in the "peers" list
Click the "upload a file" button
Choose a test file from the testing system
Check that the test file appears in the "files" list
Click that file
Click the "Download a file" button
Choose a location other than the one where that test file is located
Check that the uploaded file and the downloaded file have identical contents and names
As a user, I want to be notified if storing or retrieving files fails, so I don't count on backups that are invalid.
JOIN A NETWORK
Click on a peer in the "peers" list
Click the "upload a file" button
Choose a very large file (1 GB?)
Disconnect the testing computer from its Internet connection, while the upload is in process
Check that a message appears in the log stating that storing a file failed
Close BackupBuddies
JOIN A NETWORK
Click a peer in the "peers" list
Click the "upload a file" button
Choose a very large file (1 GB?)
Upload the file
Click the file in the "files" list
Click "Download the file"
Choose a location
Disconnect the testing computer from its Internet connection, while the upload is in process
Check that a message appears in the log stating that retrieving a file failed

Sprint 2:
As a user, I want the program to remember my network, so I don't have to type it each time I want to run the program
JOIN A NETWORK
Wait at least 1 second
Close BackupBuddies
Open BackupBuddies
Check that BackupBuddies attempts to reconnect to each peer that it was previously connected to
As a user, I want to be able to search for files across devices.
JOIN A NETWORK
Type in the search field
The list of files should change and display only those files searched for
As a user, my files will be compressed automatically when I upload them so it doesn't waste storage space
JOIN A NETWORK
Upload a test file of size 10 GB, consisting of entirely zeroes
Check on the test machine that the
As a user, I want to be able to specify and change how much storage space I am willing to share.
JOIN A NETWORK
Slide the bar to select how much storage you are willing to store
The event log should display how much the currently selected ....
As a user, I can choose which peers I upload files to, so that I don't overload one device
JOIN A NETWORK with three computers
select a peer, and click upload
on the receiving device, check to make sure you received the correct file
on the last computer that was not selected make sure it did not receive this file
Display a log of network events to the user
JOIN A NETWORK
Upload a file
The log should display if the upload failed or succeeded
Download a file