Testing Log

I plan to test the system in a random order, to try and give the software a challenge. This will be done by following the objectives, which are in no particular order. Some things will have to be done before others however for the software to work.

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| **Testing Date** | **Objective ID** | **Testing Scenario and hypothesis** | **Tested Operating System** | **Expected Output** | **Actual output** | **Reason**  **(if applicable)** | **Fix details**  **(if applicable)** | **Fix Duration**  **(if applicable)** |
| 13/01/15 | 1 | Can users see connected drives in the application | Windows 7  (S2-022) | All drives can be listed | Drives can be seen |  |  |  |
| 13/01/15 | 2 | Can the user add a drive for backup | Windows 7  (S2-022) | Drive is added for backup | Record is created successfully |  |  |  |
| 13/01/15 | 3 | Can a user backup the drive? | Windows 7  (S2-022) | Drives files appear in destination directory | Button stays depressed, takes a long time to run, system goes not responding | System.outOfMemory  Hashing 3GB isn’t liked. 32 bit parameter. Need to hash better! | Error is in framework, new algorithm needed |  |
| 26/01/15 | 4 | Can user see backup progress for drive | Windows 7  (S2-022) | Dialog with per file and overall progress is shown for backups | Box is shown, and closes as soon as backup is complete. | Short backups aren’t long enough to display dialog for useful time | Will not be fixed |  |
| 15/02/15 | 5 | Can user edit backup records for a drive | Windows 7  (S2-022) | Interface access able to edit record, and changes saved to database | Form accessible, and record updated |  |  |  |
| 15/02/15 | 7 | Different backups can be stored for different people for the same drive | Windows 7  (S2-022) | When adding a drive to another user account, they don’t collide | No collision | Application is installed into users appdata, so no collisions are possible. |  |  |
| 15/02/15 | 8 | Backups can be removed from the system | Windows 7 (workshop) | When deleting a record from the interface, it removes it from the database | Database record is deleted |  |  |  |
| 15/02/15 | 9 | Use file compression to allow rollback through backups | Windows 8.1  (Workshop) | Files are compressed into the backup directory | Compressed files are created |  |  |  |
| 15/02/15 | 10 | Multiple backups can run concurrently | Windows 7  (Workshop) | Multiple backups can run without corruption or miscopying files | Files copy with no errors or glitches | Copy process are run on separate instances, on separate threads |  |  |
| 16/01/15 | 11 | Is a hash of the drive calculated | Windows 7  (S2-022) | Hash of drive is calculated | Hashing causes error message in framework | Hash function cant hash large files.(as above) | Error is in framework, new algorithm needed |  |
| 15/02/15 | 12 | System should be easy to use | Windows 8.1  (Workshop) | System needs to be easy to use and require little tutorial |  |  |  |  |
| 12/01/15 | 13 | Does the software install and run | Windows 7  (workshop) | Install and main window shows successfully | Error messages on start-up of program | SQLCE DLL problems | Prerequisites need to be installed on system | 35 mins |
| 12/01/15 | 13 | Does the software install and run? | Windows 8.1  (workshop) | Install and main window shows successfully | Program errors and closes | As above | As above | 15 mins |
| 13/01/15 | 13 | Does the software install and run? | Windows 7  (S2-022) | Install and main window shows successfully | Window Shows if using 1-click but doesn’t update if republished | No admin Access to run installer | Delete relevant appdata directory | 10 mins |
| 15/02/15 | 14 | User must be able to change interface theme | Windows 7  (S2-022) | User has ability to change theme | Interface switches to blue no matter what | Bug in UI Library swaps from template instead of overrides | No fix as of yet |  |
| 16/02/15 | 15 | System must be resource light | Windows 8.1  (Workshop) | Must use less than 15kb RAM when idle | System uses slightly more when idle, however amount is minimal | Less efficient code |  |  |
| 16/02/15 | 16 | System must be resource light | Windows 7  (S2-022) | Must use less than 1% CPU when idle | System uses less than measurable amount when idle |  |  |  |
| 16/02/15 | 17 | System must be resource light | Windows 7  (S2-022) | Must use less than 5% CPU when using GUI | System uses much less than expected |  |  |  |
| 16/02/15 | 18 | System must be resource light | Windows 7  (S2-022) | Must use less than 30kb RAM when using GUI | System uses much less than expected, except when initiating copy and using database | Optimisation could be done, but changes wouldn’t be noticeable | Will not be fixed |  |
| 16/02/15 | 19 | System must protect against redundant backups | Windows 7  (S2-022) | System cannot store more than 1 backup per drive per user | System will not store multiple records for a drive | Database use of keys to protect redundant entries. |  |  |

Screenshots

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| Objective ID | Screenshot |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |
| 5 |  |
| 8 |  |
| 11 |  |
| 13 |  |
| 15/16 |  |
| 17/18 |  |