# Personal digital storage and secure sharing

## System requirements specifications

**1) User**

**R1) Login**

User should be able to login to their personal account.

Input: username and password

Output: On valid credentials user is prompted to system.

**R2) Sign up**

User should be able to create their personal account.

Input : Personal details

Output : After verification, user account is created.

**R3) Upload files**

Registered users should be able to upload single or multiple files via selection or drag and drop.

Input : Files selection/drag and drop

Output: Files gets uploaded to users’ personal storage.

**R4) Share files**

Registered users should be able to share file via various options.

**R4.1) Share files via link**

Input: user command

Output: File link is copied to clipboard.

**R4.2) Share files via qr-code**

Input: user command

Output: Qr-code of a file is generated and displayed.

**R5) Download file**

Registered users should be able to download any file of their personal storage.

Input: User selection

Output: Selected file gets downloaded to client machine.

**R6) Delete file**

Registered users should be able to delete any file stored in their personal storage space.

Input: User command

Output: File is removed from user storage space.

**R7) Upload folder**

Registered users should be able to upload folders from their local machine to storage space.

Input: Folder selection

Output: Folder is uploaded.

**R8) Traverse folders**

Registered users should be able to traverse all folders and sub folders in their personal storage.

Input: User command

Output: Current directory and all folders and files inside traversed directory is displayed.

**R9) Create folder**

Registered users should be able to create folders and sub-folders inside root directory of their storage space.

Input: Folder name

Output: Folder is created inside current traversed directory

**R10) Delete folders**

Registered users should be able to delete any folder other than their root directory.

Input: User selection

Output: Folder is removed

**R11) Display profile**

Registered users should be able to view their profile info such as email , contact number, used space , free space etc.

**R12) Edit profile**

Registered users should be able to edit their profile information such as contact number , address, profile picture etc.

**R13) Set alerts**

Registered users should be able to set alert to be send to their registered email when some amount of storage is used.

Input: Storage limit

Output: On exceeding storage limit alert mail is sent.

**R14) Log-out**

**2) Premium user**

Along with above listed functionalities, a premium user should have following additional functionalities.

**R15) Create secure vault**

A premium user should be able to create secure vault storage where he/she can store their private and confidential data files that need additional advanced security.

**R16) Create notes**

A premium user should be able to create text files directly in their personal space as well as edit it in editor.