USER CHARACTERISTICS

The following table describes various users associated with our project. The requirements gathered from the users helped us define different functionalities of the software.

|  |  |
| --- | --- |
| USERS | DESCRIPTION |
| Non technical end user | The non technical end user must be able to easily browse through and use all the services provided by the software. |
| Administrator | The Administrator user will be computer literate and technically competent in performing administration on computer systems.  The administrator should be able to view the amount of storage used by each user and add more storage if necessary. He/She should be able to moniter how different users are utilising the resourses and if all the users need the resourses at the same time. |
| System | The system is responsible for secure storage of all the user data. It must be able to download different files as per the users demand |

# Specific Requirements

## System Features

### ACCOUNT CREATION

#### Introduction

The user must create his/ her account before he/ she can use the system functionalities. For this the user must provide all the necessary details required by the system. The user is free to choose a password to his/her account which must be at least 6 characters long.

#### Functional Requirements

*Purpose:* creation of new account for users

*Input:* The user name, date of birth, gender, email id, userid, password

*Processing:* The system checks whether all the necessary details has been provided by the user. The system checks if the userid provided by the user is already used by any of the other users. If not and the password entered is 6 character long then the system creates a new account for the users. If any of the conditions fail , then the system gives a warning to the user

*Output:* A new account is created for the user

#### Stimulus Response

**A)**

|  |  |
| --- | --- |
| **User Actions** | **System Actions** |
| (1) User enters all the necessary details |  |
|  | (2) The system checks if all the details are provided  If not it flashes a warning to the user |
|  | (3) If all details are provided,  The system checks whether the userid provided by the user is already used. If so, the system asks the user to enter a new userid. |
|  | (4) The system checks if the password entered is valid |
| (5) If any of the checks fail and a warning is given, the user re-enters all the details and again requests for creation of an account. |  |
|  | (6) System creates a new account by entering all the user details in the database |

### LOGGING IN

#### Introduction

Once the user has created an account, they are free to log in to their account and use all the system functionalities. However to log in to the system, the user must provide the userid and password

#### Functional Requirements

Purpose: To log in to the account

Input: Userid and Password

Processing: The system checks if both the user id and password has been provided. If not the system displays a warning to the user. The system checks if the userid and the password provided are present in the database. If so, the user logs into his/her account.

Output: The user logs into his/her account.

#### Stimulus Response

|  |  |
| --- | --- |
| **User Actions** | **System Actions** |
| (1) The user enters userid and password |  |
|  | (2) Check if both the fields have been entered  If not ask the user to enter all the fields |
|  | (3) Checks if the entered password and userid are present in the database  If not, Display a warning to the user |
|  | (4) If the password and userid matches with the entry in database then the user logs into his/her account |

### UPDATE PASSWORD

#### Introduction

Incase the user forgets his/her password, he/she can change his/he password

#### Functional Requirements

*Purpose*: To update the password

*Input:* userid and new password

*Processing*: If both the fields have been provided by the user, the system checks if the given userid is present in the database. If so, then the password is updated by the newly entered password

*Output:* The password is updated

#### Stimulus Response

**A)**

|  |  |
| --- | --- |
| **User Actions** | **System Actions** |
| (1) User enter the userid and new password |  |
|  | (2) System Checks for userid in the database. |
|  | (3) If the userid is present in the database, the password is updated to the newly entered password |
|  | (4) If the userid is not present , the system asks the user to enter the details again |

### DOWNLOAD FILES

#### Introduction

The user can download files from different websites by providing the link for the file

#### Functional Requirements

*Purpose*: Download files from different torrent

*Input*: The link for the file

*Processing*: The system checks if the link provided is valid. If so, the system starts downloading the file the user wants.

*Output*: The system downloads the file user wants and makes it available to the user

#### Stimulus Response

|  |  |
| --- | --- |
| User Actions | System Actions |
| (1) User enters the link for the file to be downloaded |  |
|  | (2) checks if the link is valid |
|  | (3) If valid link, the system starts downloading the file |
|  | (4) If the link is not valid , system displays a warning to the user |

### Upload Link

#### Introduction

The user would be able to upload the link of the torrent in the upload bar. The link could be in magnet form or raw link. The user can also upload the document in using the choose file from their own browser. This feature would allow the user to put in the locally stored torrent files as well.

#### Functional Requirements

*Purpose*: Upload the link from multiple sources

*Input*: The link for the file

*Processing*: The system checks if the link provided is valid. If so, the system starts downloading the file the user wants.

*Output*: The system starts downloading the file user wants and makes it available to the user

#### Stimulus Response

|  |  |
| --- | --- |
| User Actions | System Actions |
| (1) User enters the link for the file to be downloaded |  |
|  | (2) checks if the link is valid |
|  | (3) If valid link, the system starts downloading the file |
|  | (4) If the link is not valid , system displays a warning to the user |