BM Drive

by:

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# 1. About The Project

First of all this project main goal is to develop my skills as a C programmer, By implementing and building complex features with the new design patterns and new technologies.

The idea behind the project is to build an software like google drive. BM Drive would by able to get files and documents from resisted users store them and share them with other users in BM Drive.

BM Drive has two sides client and server, The server is a unlike program that runs on main computer. Each user can accesses his files or shared file by the client.

# 1.2 Main Technologies

1. Tcp protocol
2. Mysql
3. Clinet-Server
4. Multi Proccess

# 1.3 Functionality

1. Saving file and documents on the server.
2. Edit or delete file on server.
3. Share file and documents with other users.

# 2.1 Main audience

The main audience of the program is people who is interested in keeping hes file and documents on the network with out worrying abut them. Group or companies may also benefit from this program by saving and sharing there documents with each other with the ability to accesses the from every point of time or location.

# 2.2 Main constrains

1. Using Linux operating system.

# 3.1 Functional requirements (details)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **General Explanation** | **Input** | **Process** | **Output** | **Error Handling** |
| Register | Email, Password | The client will send a request to server to register the new user, the server will check if the user is not register and will register hem. | 1. User exist 2. Email is not legal 3. Password is week |  |
| Login | Email, Password | The client will send a request to server to login the user, the server will check if all of the credentials are OK and login the user. | 1. User is logged in 2. The user does not exist 3. The credential do not mach |  |
| Select/Change main sharing directory | Directory url on user machine | The client will send the server the change and will start uploading the files in directory | 1. Cant change the directory selected 2. The change is resisted in the server |  |
| Upload new file | File | The client will send the server the file | 1. The file was not uploaded 2. The file is uploading to the server |  |
| Change file | File | The client will send the server the new file | 1. The file cant be changed (no permission) 2. The file cant be changed (bug) 3. The file is   uploading to the server |  |
| Share file | File, Email, Permission | The client will send the server the file and the server will share it with the other user. | 1. The user does not exist 2. The file cant be shared 3. Wrong permissions |  |
| Delete file | file | The client will send the server the file and the server will delete. | 1. File not found. 2. File cant be deleted. 3. File was deleted |  |