The Recipe Book Application

Aim:- This application is for creating Cooking Recipes, where users can upload new recipes, add friends and view their Recipes.

The application works in this manner
Users can post all of the cooking recipes with details
They can perform various tasks that are:-

- Login
- Search for existing people on the platform and add them as friends
- Can post their recipes
- View all of the recipes posted by the user and his friends

How to run this application

Follow these given 5 steps for running the application.

Step 1)
Install MongoDB Compass
File Name :- MongoDB
Version : 5.0.3
Link:- https://www.mongodb.com/try/download/community

For the view of the database install MongoDB compass, it will represent data in JSON format, I have added images from the same.

Step 2)
Now, open Server Folder, within vscode terminal
For flask and MongoDB connection some libraries needed to install

```
pip install pymongo
```

```
pip install flask
```

```
pip install Flask-Cors
```

Now run databaseCreation.py file

```
python  databaseCreation.py
```

This will automatically create a database and two collections with some default values,

For any failure, please open MongoDB compass and connect to
>mongodb://localhost:27017/

Manually create database name as “recipeBook”
Add two collections within it “users” and “recipes”
Now again run in vscode terminal
>python databaseCreation.py
This will append some default data within the collection,

Step 3)
Start the server
Within server folder, open vscode Terminal
Now run serverForRecipeBook.py file

```
python serverForRecipeBook.py
```

It will start the server
See the console output
Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)

step4)
Angular application requirements

Install Node.js (version- 14.0), npm (version- 6.14.15) and Angular(version- 8.3)
Node.js Link:- https://nodejs.org/en/download/
Install node setup and allow it add PATH variable,
Now install angular CLI
Open recipeApp folder in vscode then within the terminal run

```
npm install @angular/cli@8.3.8
```

Use the below command within the recipes app folder for installing packages, package.json contains all the information about the packages below command automatically install all the required packages

```
npm install
```

For running the angular application
It will run the application at localhost:4200

```
ng serve -o
```

Step 5)
Testing the application

At login page
User Name: rohit
Password: 1234
You can see Two recipes that are posted by the user.

Go to tab Add recipe
Add some recipes and save them, Navigate to the home tab you will see newly added recipes.

Go to friends Tab
Search for some name like “anku”, “tony” or any character like “a” it will show the relevant results, Now click the “your friend list” button all of the user’s friends appear here.
Now go back to the friend tab, search for “sahil”, click the add friend button. Go to the friend list and it will update the list also the home page is updated with the recipes of “sahil”

Now press the “logout” button and try with other users

User Name: sahil
Password: 9876
As we added “sahil” user as a friend of “rohit” user we can see cooking recipes by both users arranged in formate (as per date of posting)

Within the server, two files are provided
1)databaseCreation.py is for creating a database with MongoDB and adding some values by default for the smooth running of the application
2)serverForRecipeBook.py is for running the Flask server and watching the output within it

I have used the default port number for database connection and flask server, after this page you will find out the images and structure of application.

Technologies used:-

Angular 12, Python 3, Flask, MongoDB, HTML, CSS

About Database

[MongoDB]
Database Name:- recipeBook
There are Two Collections

1) Users
2) Recipes

Users Collection

Data = {

1. **user_id**:"rohit"
2. **password**:"1234"
3. **friend_list**:Array
    1. **0**:"tom"
    2. **1**:"Holly"
    3. **2**:"harry"
    4. **3**:"anku"
    5. **4**:"Elizabeth"
    6. **5**:"anku"

}

Recipes

Data = {

1. **user_id**:"rohit"
2. **recipes**:Array

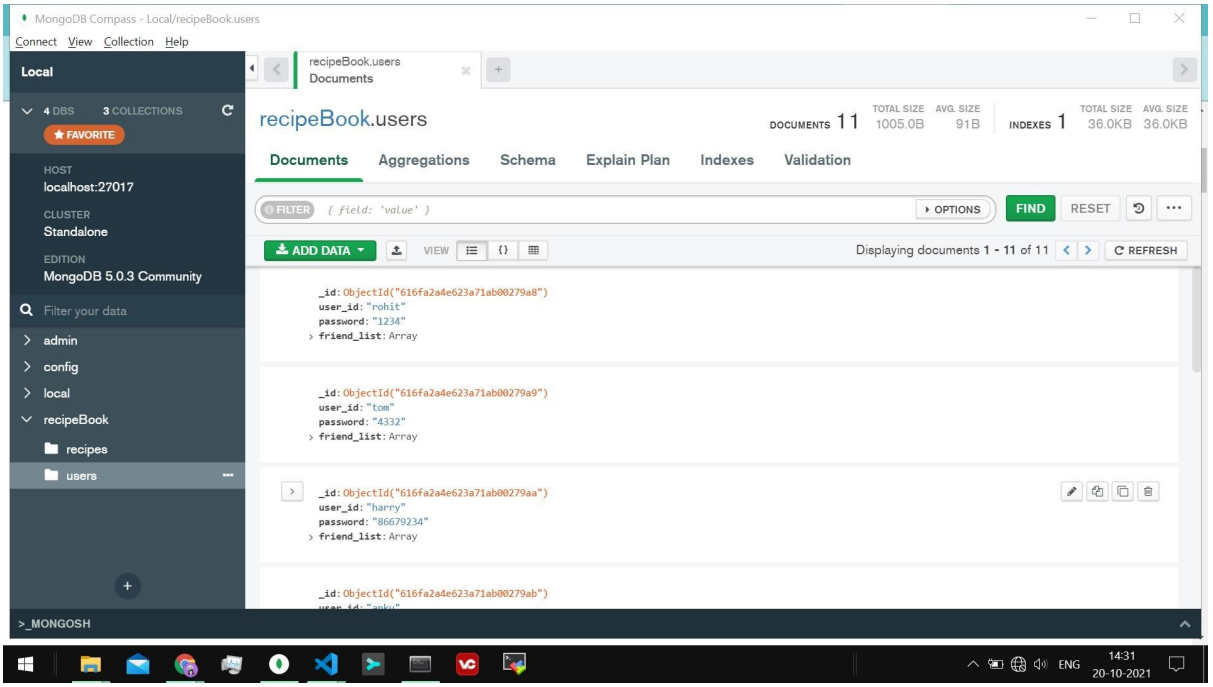
0:Object}

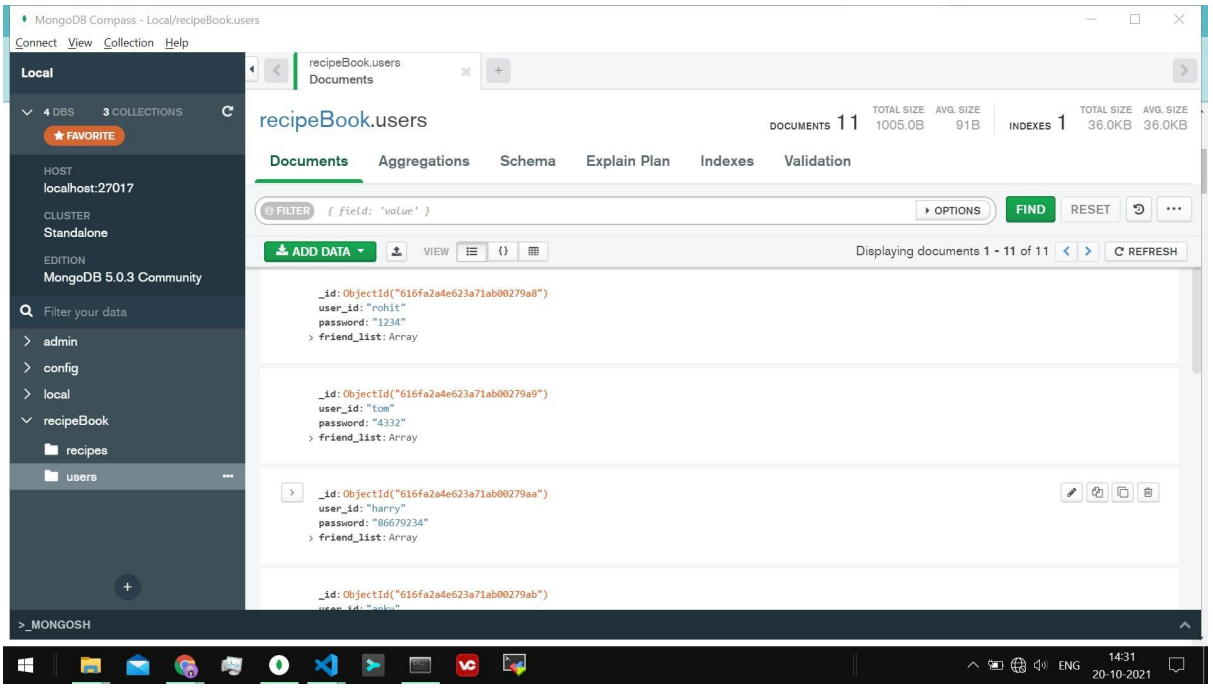
1:Object

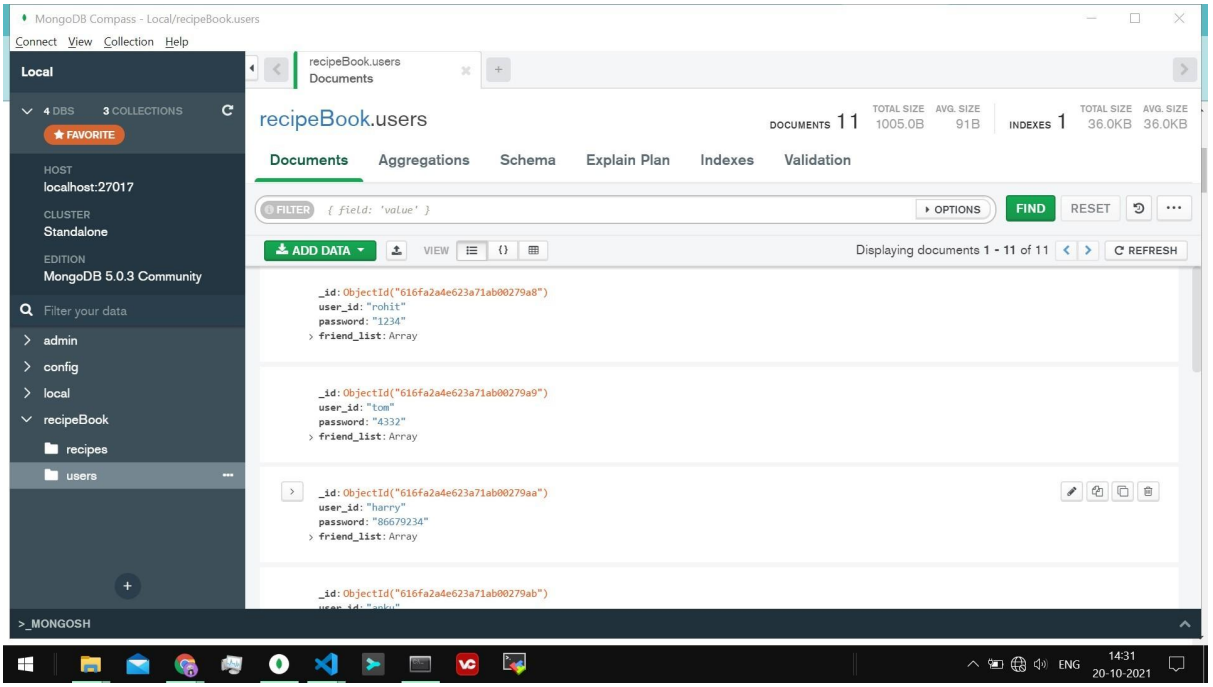
2:Object

3:Object

}


MongoDB Compass - Local/recipeBook.users
Connect View Collection Help
Local
4 DBS 3 COLLECTIONS
FAVORITE
HOST
localhost:27017
CLUSTER
Standalone
EDITION
MongoDB 5.0.3 Community
Filter your data
admin
config
local
recipeBook
recipes
users
recipeBook.users
Documents
recipeBook.users
DOCUMENTS 11 TOTAL SIZE 1005.0B AVG. SIZE 91B
INDEXES 1 TOTAL SIZE 36.0KB AVG. SIZE 36.0KB
Documents Aggregations Schema Explain Plan Indexes Validation
FILTER { field: 'value' }
OPTIONS
FIND
RESET
ADD DATA
VIEW
Displaying documents 1 - 11 of 11
REFRESH
_id: ObjectId("616fa2a4e623a71ab00279a8")
user_id: "rohit"
password: "1234"
friend_list: Array
_id: ObjectId("616fa2a4e623a71ab00279a9")
user_id: "tom"
password: "4332"
friend_list: Array
_id: ObjectId("616fa2a4e623a71ab00279aa")
user_id: "harry"
password: "86679234"
friend_list: Array
_id: ObjectId("616fa2a4e623a71ab00279ab")
>_MONGOSH
ENG
14:31
20-10-2021


MongoDB Compass - Local/recipeBook.users
Connect View Collection Help
Local
4 DBS 3 COLLECTIONS
FAVORITE
HOST
localhost:27017
CLUSTER
Standalone
EDITION
MongoDB 5.0.3 Community
Filter your data
admin
config
local
recipeBook
recipes
users
recipeBook.users
Documents
recipeBook.users
DOCUMENTS 11 TOTAL SIZE 1005.0B AVG. SIZE 91B
INDEXES 1 TOTAL SIZE 36.0KB AVG. SIZE 36.0KB
Documents Aggregations Schema Explain Plan Indexes Validation
FILTER { field: 'value' }
OPTIONS
FIND
RESET
ADD DATA
VIEW
Displaying documents 1 - 11 of 11
REFRESH
_id: ObjectId("616fa2a4e623a71ab00279a8")
user_id: "rohit"
password: "1234"
friend_list: Array
_id: ObjectId("616fa2a4e623a71ab00279a9")
user_id: "tom"
password: "4332"
friend_list: Array
_id: ObjectId("616fa2a4e623a71ab00279aa")
user_id: "harry"
password: "86679234"
friend_list: Array
_id: ObjectId("616fa2a4e623a71ab00279ab")
>_MONGOSH
ENG
14:31
20-10-2021



About Server
[Flask Python]

Folder Name = Server
File Name = server.py

Library used

- flask
- JSON
- pymongo
- flask_cors import CORS;
- flask import request
- re

Routes

1)Login

@app.route("/login",methods = ['POST'])
Which will take json user_id and password,
Then verify the user if the credentials, return a response as per that

2)Get All Recipes

@app.route("/getAllRecipes",methods = ['GET'])
It will fetch all recipes from the recipes collection of the user and his friends,
It will arrange them in order of dates(date and time of post creation), then return to the front end

3)Add new Recipe

@app.route("/addRecipe", methods = ['POST'])
It will add a new Recipe in Recipes Collection as per user_id

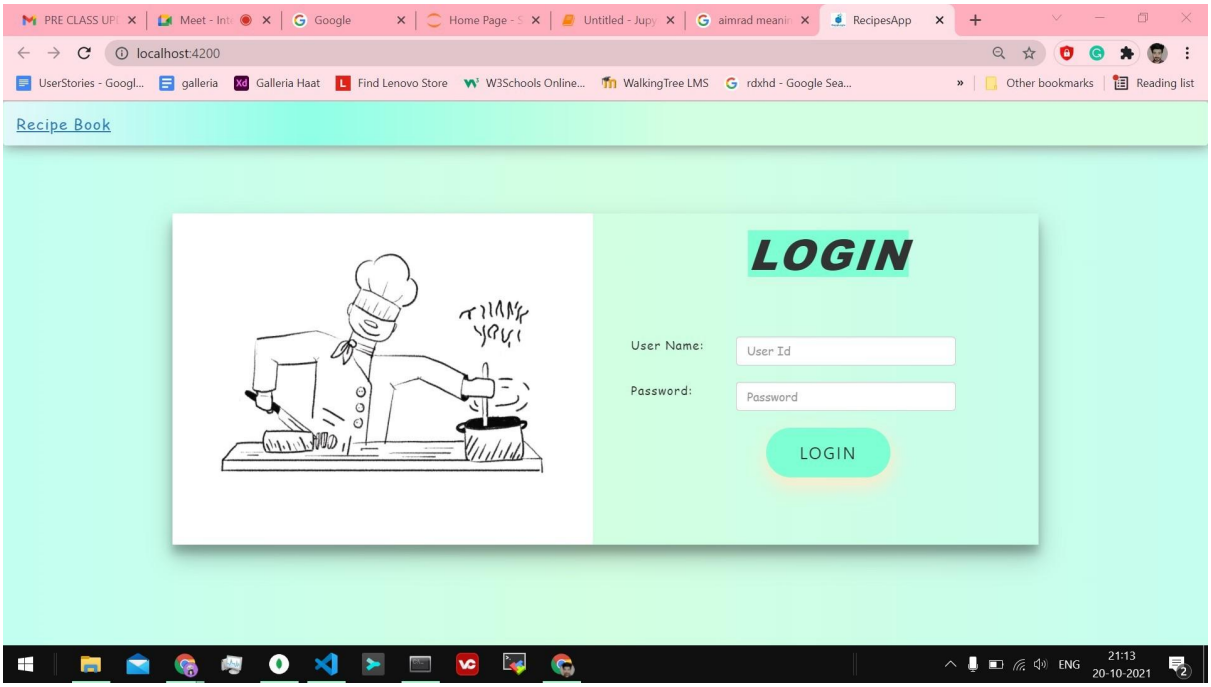
4) search for friends

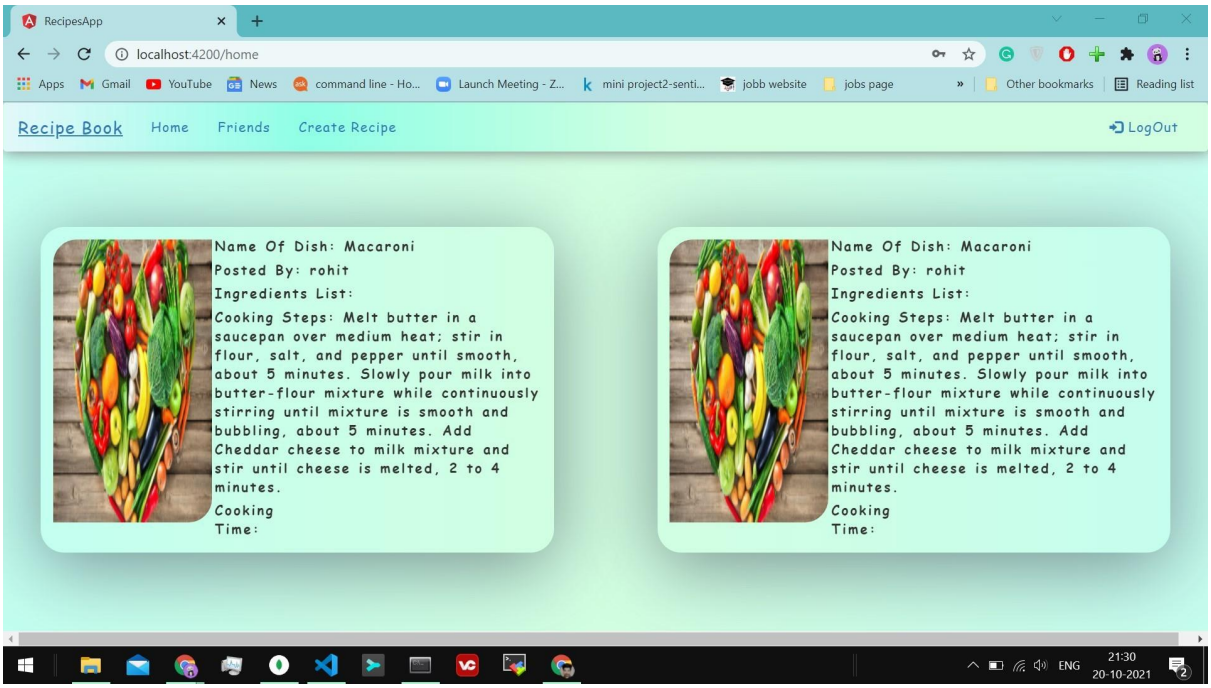
@app.route("/searchFriends")
I will take a string and search the user within users collection, return all users which have the string pattern

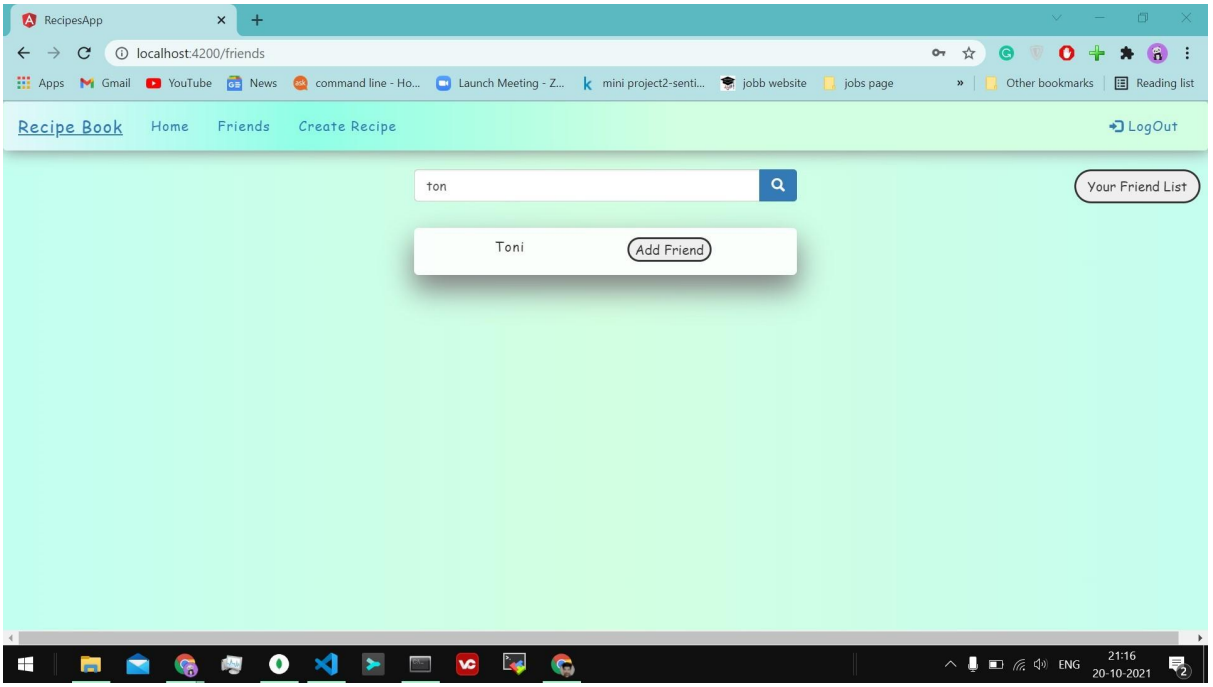
5) Add New friends
@app.route("/addNewFriend",methods = ['POST'])
It will allow users to add new friends on the search friends page.

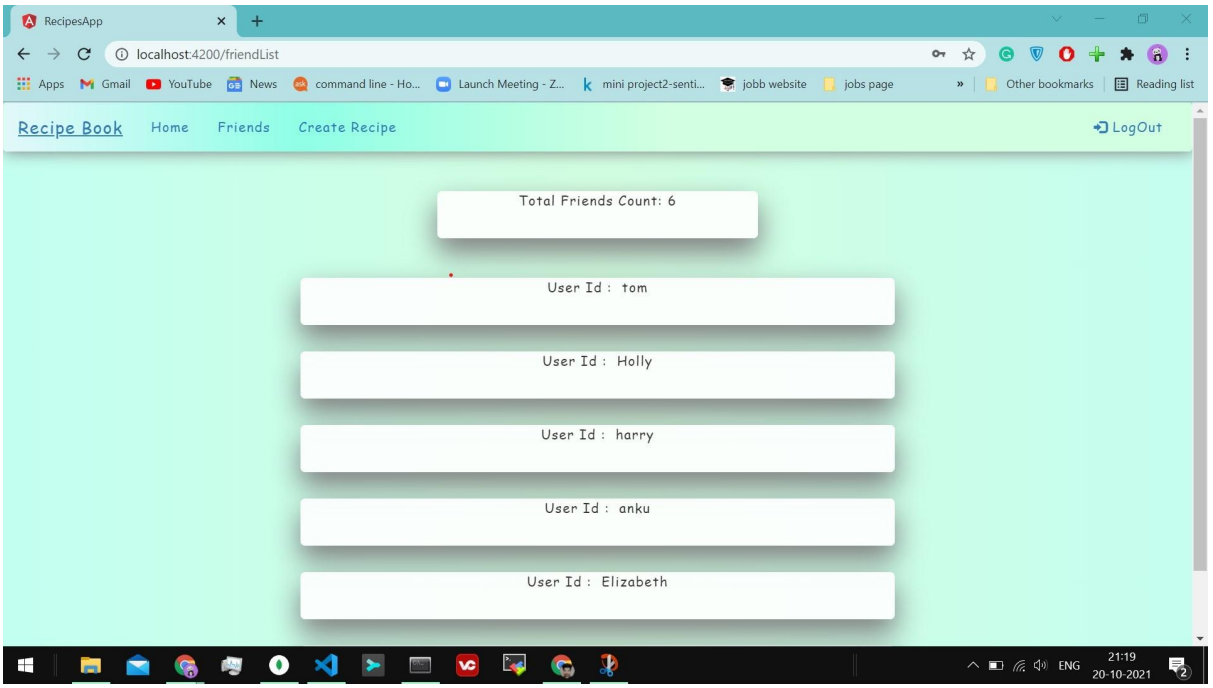
Front -end
[Angular , HTML, CSS , Bootstrap]

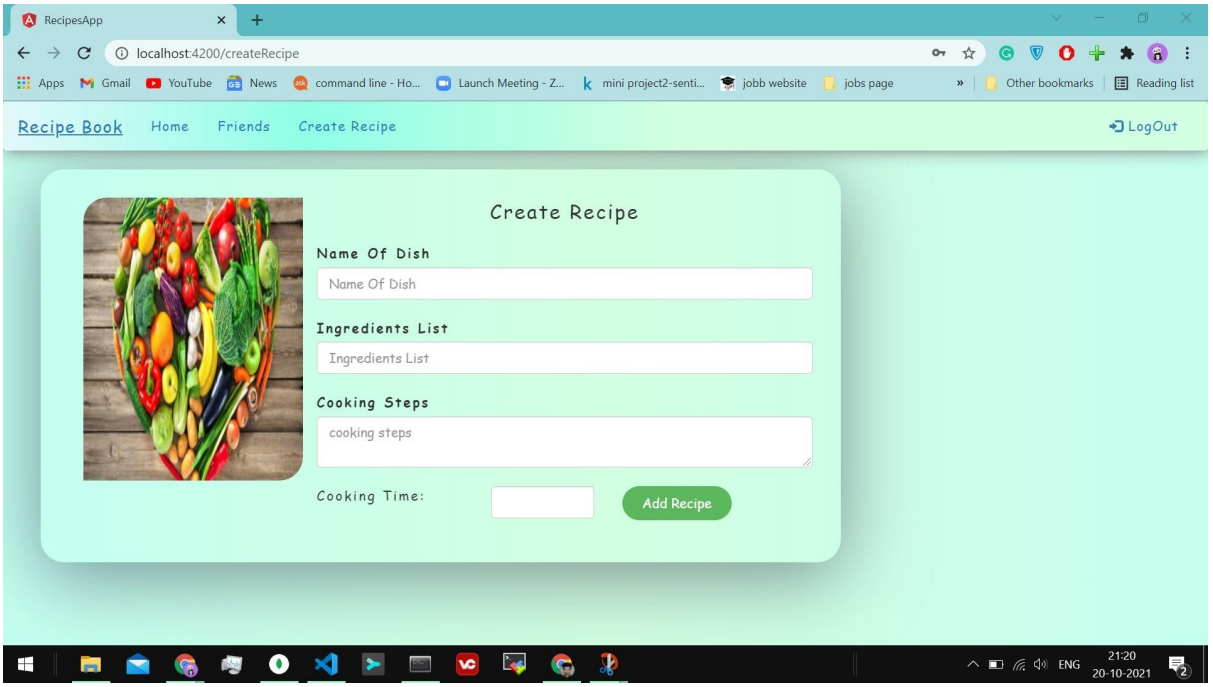
Components


RecipesApp
localhost:4200
Recipe Book
LOGIN
User Name:
User Id
Password:
Password
LOGIN


RecipesApp
localhost:4200/home
Recipe Book
Home
Friends
Create Recipe
LogOut
Name Of Dish: Macaroni
Posted By: rohit
Ingredients List:
Cooking Steps: Melt butter in a saucepan over medium heat; stir in flour, salt, and pepper until smooth, about 5 minutes. Slowly pour milk into butter-flour mixture while continuously stirring until mixture is smooth and bubbling, about 5 minutes. Add Cheddar cheese to milk mixture and stir until cheese is melted, 2 to 4 minutes.
Cooking Time:
Name Of Dish: Macaroni
Posted By: rohit
Ingredients List:
Cooking Steps: Melt butter in a saucepan over medium heat; stir in flour, salt, and pepper until smooth, about 5 minutes. Slowly pour milk into butter-flour mixture while continuously stirring until mixture is smooth and bubbling, about 5 minutes. Add Cheddar cheese to milk mixture and stir until cheese is melted, 2 to 4 minutes.
Cooking Time:


RecipesApp
localhost:4200/friends
Recipe Book
Home
Friends
Create Recipe
LogOut
ton
Your Friend List
Toni
Add Friend
ENG
21:16
20-10-2021


RecipesApp
localhost:4200/friendList
Recipe Book
Home
Friends
Create Recipe
LogOut
Total Friends Count: 6
User Id : tom
User Id : Holly
User Id : harry
User Id : anku
User Id : Elizabeth
ENG
21:19
20-10-2021


RecipesApp
localhost:4200/createRecipe
Apps
Gmail
YouTube
News
command line - Ho...
Launch Meeting - Z...
mini project2-senti...
jobb website
jobs page
Other bookmarks
Reading list
Recipe Book
Home
Friends
Create Recipe
LogOut
Create Recipe
Name Of Dish
Name Of Dish
Ingredients List
Ingredients List
Cooking Steps
cooking steps
Cooking Time:
Add Recipe
ENG
21:20
20-10-2021