Expense Tracker Application

The main objective to build so the user can keep the track of expenses.the user can saved them expenses can categorize them with amount and with privacy.This is a console based application.

We are using here python for this project And for storing the data we are using csv file.

We can handle the csv file through python with the help of csv file.

**FLOW OF THE APPLICATION :**

1.The user can start the application by running the main.py file.

2. After this the user is welcomed to the application.

3. The user can sign up with the its unique username,password.

4. After that the user can log in the same username and password.

5. The expenses menu will be open,in which there are features to implement.

6. There are features of adding,deleting,updating,viewing all the records of the user.

**Technologies used:**

* Python for maintaining the code.
* Bcrypt for encrypting the password.
* CSV for maintaining the csv file.
* DefaultDict for dictionary default key value which helps in aggregation .
* OS is for interacting the operating system.

**Architecture of the application**

*Folder Structure of the application*

* Data folder contains the csv file which actually stores the data.

It contains the users.csv file which is for user authentication records

The second is the expense.csv file, contains the expense records per user,

* Src folder contains controllers.the user controller is for signup and login.

The expense controller for adding,deleting,reading and updating,categorizing.

* The file main.py inside the source folder is the starting point of the application

**Features:**

Privacy Protection

Tracks Expenses

Adding the Expenses

Updating Expenses

Deleting Expenses

Categorizing Expenses

**TESTING**

I have done manual testing.I have run the application each time when i added the new module.

**Challenges**

Maintaining csv file while categorizing the expenses section i have to do research from for the defaultdict and watch multiple videos to understand that how it works

**Future Enchancement:**

* Migrate to the mongo db.The best for the database.
* Use redis for caching to make it larger scale application.
* Add more controllers with graphs,piecharts matlplot lib.