



Project Presentation

Expense Tracker.

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Item Name:

Amount (Rs.):

Add Expense

Update Selected

Delete Selected

Logout

Total: Rs.910.00

ID	Item	Rs.
1	Test	500.00
2	update	50.00
3	Delete	360.00

Bismillah-ir-Rahman-ir-Raheem

شروع اللہ کے پاک نام سے جو بڑا مہر بان نہایت رحم والا ہے



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5:52 pm
27/12/2025

A screenshot of a code editor interface, likely Visual Studio Code, displaying a Python project structure and a code editor window.

Project Structure:

- EXPLORER
- PROJECT
- Code
- CLI
- CLI.py
- GUI
- finance_data.json
- GUI.py
- Presentation

Code Editor (CLI.py):

```
Code > CLI > CLI.py > ...
1 import os
2 import pyttsx3
3 import json
4 from datetime import datetime
5
6 DB_FILE = "finance_data.json"
7
8 def speak(text):
9     print(f"\u2615 AI: {text}")
10    try:
11        engine = pyttsx3.init()
12        engine.setProperty('rate', 150)
13        engine.say(text)
14        engine.runAndWait()
15        engine.stop()
16    except Exception as e:
17        print(f"\u2615 Error: {e}")
```

Terminal:

```
PS C:\Users\Saqib Zahid\Documents\Project> python cli.py
```

Expense Tracker

A python program that help users take control of their expenses.
The project uses, file handling, Built-in and external Modules, data persistency and supports multiple users.



> OUTLINE
> TIMELINE

✖ 0 ▲ 0

```
1 import os  
2 import pytsx3  
3 import json  
4 from datetime import datetime
```

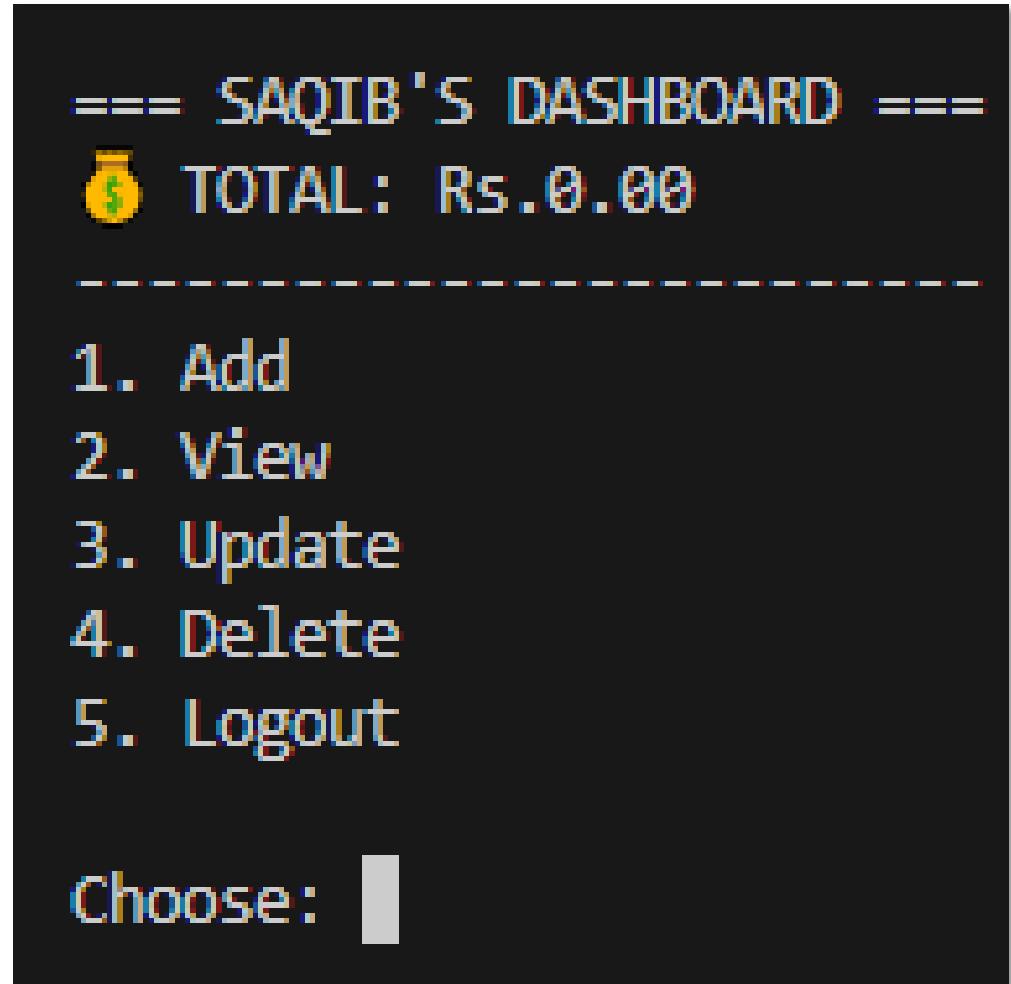
The code uses four modules.

- OS (Built-in)
- Pytsx3 (External)
- Json(Built-in)
- Datetime (Built-in)

Features

The project uses CRUD operations.

- Add (Create)
- View (Read)
- Update (Update)
- Delete (Delete)



▼ OUTLINE

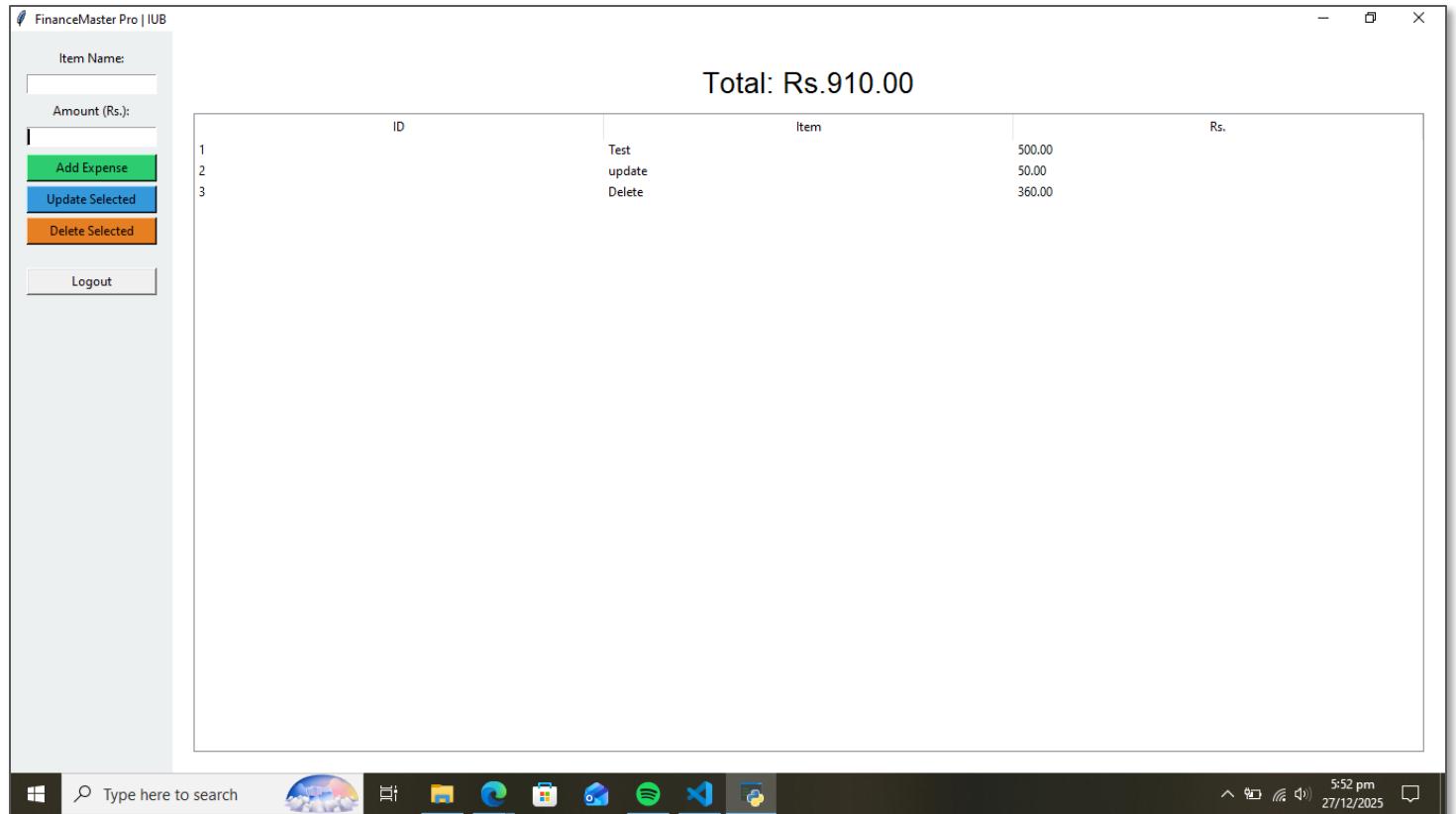
- [DB] DB_FILE
- > [T] speak
- > [T] load_data
- > [T] save_data
- [D] data
- [D] current_user
- [T] clear_screen
- > [T] auth_menu
- > [T] add_expense
- > [T] update_expense
- > [T] delete_expense
- > [T] view_history
- > [T] main_dashboard

Code Outline

- Uses Multiple Functions
- DB_FILE to save data
- speak (Uses pyttsx3 | External Module)
- laod_data and save_data (Json)
- clear_screen (OS | clear screen)
- auth_menu (For Log-in and Sign-up)
- add_expense, update_expense, delete_expense, view_history (For CRUD operations)
- main_dashboard (For Main menu)

Vibe Coding

- By using Gemini. We can convert a simple CLI program to a beautiful python application.



Any Question

Thanks

Scan QR to access code

