**Expense Tracker App**

The Expense Tracker App is a web application that allows users to track their daily expenses. It features adding expenses, viewing monthly expenses, recent expenses, and visualizing expenses through charts. The application uses Flask for backend logic and Jinja templates for rendering HTML pages. CSS files are stored in a static folder for styling. MongoDB is used as the database.

**Backend: Flask Application-**

* **Flask Routes and Functions**

1. **/addExpense API -** Receives the date, expense category, expense amount and description and adds this expense in addExpense collection of MongoDB database.
2. **/add\_expense API –** render the addExpense.html template.
3. **/recent\_expense API –** render the recentExpense.html template.
4. **/monthSelect/<select\_option> API –** receive a selected option of month from recent expense page and fetch the monthly expense according to the selected month.
5. **/month\_expense API-** when month expense page loaded, showing the current month expense and if we select another month then **/monthSelect/<select\_option>** API is triggered**.**
6. **/visualize\_expense API-** render the visualizeExpense.html template and generate a yearly expense graph.
7. **/chartview/<select\_option> API-** receive a selected option of chart view like yearly and monthly and show the graph according to the option.
8. **/monthChartView/<option> API-** receive a month option and create graph according to the month expense.
9. **/deleteExpense/<user\_id>-** receive the user\_id for expense we want to delete and delete form database.
10. **/updateExpense/<user\_id>-** receive the user\_id for expense we want to update and fetch the expense data in the form.
11. **/newUpdateExpense/<user\_id>-** update the new data of the user\_id which is selected for update.

**Frontend: Jinja templates-**

* **Templates-**

1. **index.html-** main landing page that inherit other templates.
2. **header.html-** header of the expense tracker.
3. **nav.html-** used for navigation and activate the other template.
4. **addExpense.html-** create an expense entry where we input date, expense category, expense amount and description.
5. **recentExpense.html**- showing all recent expenses and perform update and delete the expenses.
6. **monthlyExpense.html**- when the page loads, the current month’s expenses are displayed along with total expense amount. We can view expenses for other months by selecting a different month from the dropdown menu.
7. **visualizeExpense.html-** when the page loads, yearly expense data displayed, and we can view the monthly data by selecting monthly option from dropdown.