**DOCUMENTATION FOR EXPENSE TRACKER APP**

**Tech Stack:**

**1.** **Primary:-**

Backend:- Node.js, express.js

Database:- MongoDB

Frontend:- Next.js

**2. Secondary:-**

Backend:- Spring Boot

Database:- MySQL

Frontend:- Angular

**Functionalities:-**

1. Authentication:-
   1. Primary:- email/mobile, password
   2. Secondary:- OAuth
2. View, update profile details
3. Change, reset password
4. Categories:- shopping, house rent, recharge, ….etc
5. Expense:- Add expense and store details like amount, category, and date.
6. Expense Type:- Credit, debit
7. View the expense analysis using charts, filter, search.

**New Things to explore:-**

1. OAuth
2. GraphQL(secondary)
3. Microservices
4. Frontend Library (shardcn, headless ui, …etc) (**FOR NEXTJS**)
5. Frontend Library (material ui) (**FOR ANGULAR**)
6. Displaying data with charts, using libraries like chart.js.

**Models/Modules:**

1. User (id, name, email/mobile, password)
2. Category (id, name)
3. Expense (id, amount, category->categoryId, type(credit/debit), date)

**ER Diagram:-**

**EXPENSE MODULE**

**USER MODULE**

USER

Expense Analysis

Delete Expense

Update Expense

Add Expense

Change Password

Reset Password

Update Profile

View Profile

Login

Register