

NAALAIYA THIRAN PROJECT - 2022 19ECI01-PROFESSIONAL READINESS FOR INNOVATION, EMPLOYABILITY AND ENTREPRENEURSHIP











PERSONAL EXPENSES TRACKER APPLICATION

A PROJECT REPORT

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Phase	Phase Description	Week	Dates	Activity Details
1	Preparation Phase (Pre- requisites, Registrations, Environment Set-up, etc.)	2	22 - 27 Aug 2022	Creation GitHub account & collaborate with Project repository in project workspace
	Ideation Phase (Literature Survey, –		Sept 2022	Literature survey (Aim, objective, problem statement and need for the project)
2	Empathize, Defining Problem Statement, Ideation)	3		Preparing Empathy Map Canvas to capture the user Pains & Gains
	, ,	4	2022	Listing of the ideas using brainstorming session
	Project Design Phase -I (Proposed	5	19 - 24 Sept 2022	Preparing the proposed solution document
3	Solution, Problem- Solution Fit, Solution Architecture)	6	26 Sept - 01 Oct 2022	Preparing problem - solution fit document & Solution Architecture
	Project Design Phase -II (Requirement Analysis, Customer Journey, Data Flow Diagrams, Technology Architecture)	7	3 - 8 Oct 2022	Preparing the customer journey maps
4		8	10 - 15 Oct 2022	Preparing the Functional Requirement Document & Data- Flow Diagrams and Technology Architecture
5	Project Planning Phase (Milestones & Tasks, Sprint Schedules)	9	17 - 22 Oct 2022	Preparing Milestone & Activity List, Sprint Delivery Plan
		10	2022	Preparing Project Development - Delivery of Sprint-1
	Project Development Phase (Coding& Solutioning, acceptance Testing, Performance Testing)	11	31 Oct - 5 Nov 2022	Preparing Project Development - Delivery of Sprint-2
6		12	7 - 12 Nov 2022	Preparing Project Development - Delivery of Sprint-3
		13	14 - 19 Nov 2022	Preparing Project Development - Delivery of Sprint-4
7	Results and Discussion			Simulation Outputs and Summary
8	Conclusion			
9	Appendix I			Source code and Demo link

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ABSTRACT

Expense Tracker is a simple web application to manage and document day to day expenses all along with providing a nice overview of the monthly statistics on the categories of different consumptions. It is a responsive web application that works great with various devices and browsers. With the launch and increase in sales of smartphones over the last few years, people are using mobile applications to get their work done, which makes their lives applications comprise various categories Mobile such as Entertainment, Sports, Lifestyle, Education, Games, Food and Drink, Health and Fitness, Finance, etc. This Expense Tracker web application falls in the Finance Category and serves the important In managing finances which is a very important part of one's life. The aim of this work is to aid users on how to manage finances in any circumstance by keeping track of their expenses every day. The salient features of the expense tracker are that users can access it anywhere and anytime, least scope of data loss and controlling expenses through awareness. Ultimately, this contributes to societal well-being.

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CHAPTER 1

INTRODUCTION

1.1 PROJECT OVERVIEW

In this project, we created a web application called "Personal Expense Tracker" that will allow us keep track of our income and expenses on a daily, weekly, monthly, or whenever we want to remember basis. It also serves as a signal or reminder since, in today's fast-paced world, it can be difficult to remember what we need to get done before the end of the month and what bills we need to pay. Sometimes we lose track of our sources of income, where money must come from, or what obligations we must fulfil due to conflict or other sources of stress.

This application will assist you in keeping track of the tasks that need to be completed by the end of the month. For instance, how much it costs monthly and what the monthly expenses are. Some of the cost elements include food costs, billing costs for things like phone, power, taxes, and other personal expenses. Our web application will be extremely helpful for businesspeople in this fast-paced environment as well as for families with children. Society depends on budgeting. Budget tracking entails keeping track of and evaluating a person's or an organization's earnings and expenses over a specific time period.

Many people are looking for effective ways to manage their time and money nowadays because we live in a hurry-up and get-it-done culture. A little home budget study has been done in recent years. Budget tracking is quite challenging because most of the time, budget management is done mentally rather than on paper.

1.2 PURPOSE

People are adopting mobile applications to complete their work, which makes their life easier, as a result of the introduction of smartphones and the growth in their sales over the past few years. There are many distinct categories of mobile applications, including those for entertainment, sports, lifestyle, education, games, food and drink, health and fitness, finance, and others. The management of finances, which is a crucial aspect of one's life, is the key goal of this expense tracker web application, which belongs to the finance category. The purpose of this work is to assist users in learning how to manage their finances in any situation by keeping track of their daily expenses. The ability for users to access the expense tracker from any location, the low risk of data loss, and the

ability to reduce spending through awareness are its key benefits. In the end, this benefits societal prosperity.

CHAPTER 2 LITERATURE SURVEY

2.1 EXISTING SOLUTION

Existing system does not use the smart concept which are used now a days. In existing, we need to maintain the Excel sheets, CSV etc. files for the user daily and monthly expenses. In existing, there is no as such complete solution to keep a track of its daily expenditure easily. To do so a person as to keep a log in a diary or in a computer, also all the calculations need to be done by the user which may sometimes results in errors leading to losses.

2.3 PROBLEM STATEMENT DEFINITION

Expense Tracker is a simple web application to manage and document day to day expenses all along with providing a nice overview of the monthly statistics on the categories of different consumptions. It's a responsive web application that works great with various devices and browsers. It is beneficial to manage our income and expenses on a daily, weekly, or monthly basis, or whenever we want to remind ourselves.

LITERATURE SUMMARY

User can perform some of the basic operations like add expenses, add category, filter transaction view and can view the analytics graphically. User can have multiple accounts and can download the report in pdf format so that user can have report in printed format. If a user exceed daily expense allowed amount it will give a warning, so that user don't spend much on that specific day and if the spend is less than the daily expense allowed amount, the money left after spending is added into user's savings.

CHAPTER 3

IDEATION AND PROPOSED SOLUTION

3.1 EMPATHY MAP CANVAS

An empathy map is a collaborative visualization used to express clearly what one knows about a particular type of user. It externalizes knowledge about users in order to create a shared understanding of user needs, and aid in decision making.

The user is positioned in the center of an empathy map, which is divided into four quadrants (Says, Thinks, Does, and Feels). Empathy maps offer a quick glimpse into a user's personality as a whole. What the user says or needs is contained in the Says quadrant. What the user is thinking during the encounter is captured in the Thinks quadrant. The user's activities are contained within the Does quadrant. The user's emotional condition is shown in the Feels quadrant.

The empathy map for Personal Expenses Tracker Application is shown in Fig 3.1

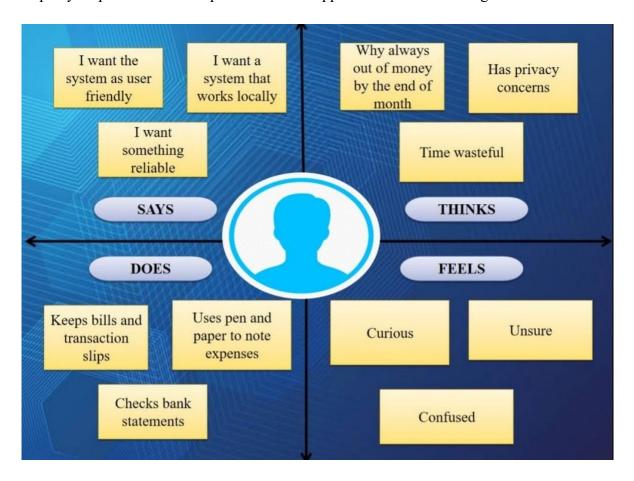


Fig 3.1 Empathy map

The Empathy map of the personal Expenses tracker application is displayed in Fig. 3.1. This map

allows us to analyze the consumers emotions, including their thoughts, feelings, and actions, as well as how it helps them track their spending and what it says about their spending and saves. Customers may be concerned about their privacy if there is no spending tracking since they may wonder why I consistently run out of money before the end of the month. However, people can feel comfortable and secure with this expense tracker, and they are interested in their tracking of expenditures. Because this software is so user-friendly and the personal cost tracking system is so dependable for the user, because this system operates locally, we can readily access the app. Customers may simply check their bank statements by utilizing this app, which has the capacity to keep track of their bills and transaction slips.

3.2 IDEATION AND BRAINSTORMING

Ideation and the practice of brainstorming, a particular method for coming up with fresh ideas, are frequently closely related. A group of people are frequently gathered for a brainstorming session to generate either fresh, general ideas or solutions to specific problems or circumstances. The main distinction between ideation and brainstorming is that whereas brainstorming is nearly often done in groups, ideation is typically seen as being more of a solitary endeavor. Both brainstorming and ideation are techniques developed to generate fresh, insightful notions, ideas, and perceptions. They are also ways to imagine fresh frameworks and tackle systemic issues.

The Ideation chart for Personal Expenses Tracker System is shown in Table 3.2.

IDEA 1	IDEA 2	IDEA 3
Controlling expenditure by using personal expense tracker application	A user interface system for customers to analyze the data.	Controlling the overspending of money and helps the customers to increase their savings
An easy to use Expense Tracking system for the Customers who seeks for the Help to save their money by Providing a gentle reminder And helps to Prevent the Overspending of the money	To send reminders via Message where an alert message tells the Customer if the expense has Extend their Expenditure Before the time. Also alerts them about their overall Expenditure	To generate a report on the Whole expenditure Transaction statistics that Makes it easier for the Customer to monitor the Expenditure.

3.3 PROPOSED SOLUTION

The proposed solution for Personal Expenses Tracker Application is shown in table 3.3

ATTRIBUTE	DEFINITION	STUDENTS WORK
Problem Statement	Expense Tracker is a simple web application to manage and document day to day expenses all along with providing a nice overview of the monthly statistics on the categories of different consumptions. It's a responsive web application that works great with various devices and browsers. It is beneficial to manage our income and expenses on a daily, weekly, or monthly basis, or whenever we want to remind ourselves	A toolbox of expenses tracking techniques based on the integration of budget protection
Customer	Not having knowledge of the available and upcoming solutions and models catering to this problem is one major factor inhibiting customers from accessing such software and technologies. Moreover, some of the existing solutions may not alert the user which result in	By using this personal expense tracker application is created by using various techniques it helps the customers to monitor their expenditures
Novelty/Uniqueness	User to save their expense by simply scanning the bills or receipt copies. The application extracts the textual information from the receipts and saves the amount and description for further processing and User can have multiple accounts and can download the report in pdf format so that user can have report in printed format	But with this expense tracker they can feel safe and secure and they are curious about their tracking of expenditure.

	Most of the people face consequences of not budgeting include lack of savings, less financial security and more financial stress. In addition, when you live without a budget, it becomes more difficult to navigate unexpected expenses, and achieve your financial goals.	Expense Tracker web app Which is used to manage the expenses and aims to
		With efficient usage of IBM
Scalability of the solution	It is a very manual app, kind of like a glorified calculator. It allows you to manually input all of your expenses, date, and amount. It give you a picture but only if you fill it in daily or every couple of days.	cloud, this proposed model will be able to handle a large number of user data. This makes a huge number

3.4 PROBLEM SOLUTION FIT

The Problem solution fit simply means that one have found a problem with the customer and that the solution one have realised for it actually solves the customers problem. The problem solution fit is an important step towards the Product-Market Fit. The structure of problem solution fit is given below.

Customer state fit: To make sure one understand the target group, their limitations and their currently available solutions, against which one is going to compete.

Problem-Behavior fit: To help one to identify the most urgent and frequent problems, understand the real reasons behind them and see which behavior supports it.

Communication-Channel fit: To help one to sharpen the communication with strong triggers, emotional messaging and reaching customers via the right channels.

Solution guess: Translate all the validated data one has gathered into a solution that fits the customer state and his/her limitations, solves a real problem and taps into the common behavior of the target group.

The problem solution fit for Personal Expenses Tracker Application is shown in Fig 3.4

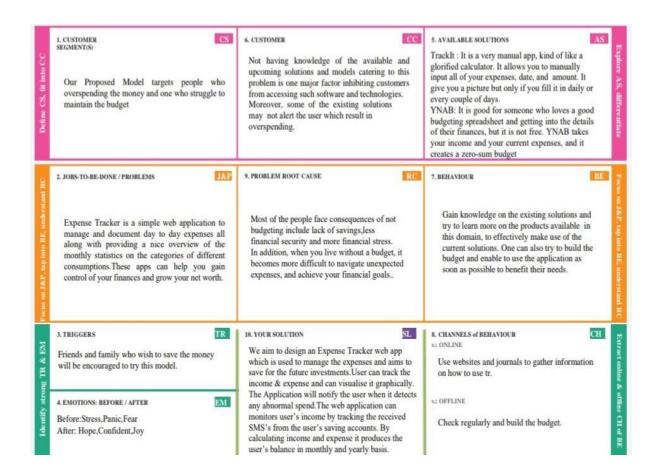


Fig 3.4 Problem Solution fit

CHAPTER 4 REQUIREMENT ANALYSIS

Requirements analysis is very critical process that enables the success of a system or software project to be assessed. Requirements are generally split into two types: Functional and Non-functional requirements.

4.1 FUNCTIONAL REQUIREMENT

These are the requirements that the end user specifically demands as basic facilities that the system should offer. All these functionalities need to be necessarily incorporated into the system as a part of the contract. These are represented or stated in the form of input to be given to the system, the operation performed and the output expected. They are basically the requirements stated by the user which one can see directly in the final product, unlike the non-functional requirements.

The following table 4.1 shows the functional requirements for Personal Expenses Tracker Application

FR NO.	FUNCTIONAL REQUIREMENT (EPIC)	SUB REQUIREMENT (STORY / SUB-TASK)
FR-1	User registration	Download the app Registration through Gmail Create an account Follow the instructions
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP

		Details are verified
FR-3	Enter the details	Confirmed by the authority
FR-4	Accessing the application	Make a track on the every expenses
		Notification for every successful payment
		The same and the same and the same purposes
FR-5	Mobile application	It alerts the customer once it exceeds the budget
		limit by mobile application.

4.2 NON-FUNCTIONAL REQUIREMENTS

These are basically the quality constraints that the system must satisfy according to the project contract. The priority or extent to which these factors are implemented varies from one project to other. They are also called non-behavioral requirements.

They basically deal with issues like Portability, Security, Maintainability, Reliability, Scalability, Performance, Reusability, Flexibility.

The following table 4.2 shows the Non-Functional Requirements of Personal Expenses Tracker Application

FR	NON-FUNCTIONAL	DESCRIPTION
NO.	REQUIREMENT	
NFR-		The smart Expense tracker application defines
1	Usability	that it helps the customers to avoid
	Osaomty	overspending

NFR-	Security	We have designed this project to control the overspending of money
NFR-	Reliability	This project will help customers in protecting their money to reduce the financial losses. This will also help them to save their money thus leading to their economic well-being.
NFR-	Performance	It notifies the user for their every successful payment. It will alert the customer once their budget is exceeds their limit.
NFR- 5	Availability	By developing and deploying resilient software we can easily control the overspending of money.
NFR-	Scalability	Since this system uses computer vision techniques integrated with IBM cloud services helps efficiently to retrieve images in large scale thus improving scalability

CHAPTER 5

PROJECT DESIGN

5.1 DATA FLOW DIAGRAMS

A data flow diagram (DFD) maps out the flow of information for any process or system. It uses defined symbols like rectangles, circles and arrows, plus short text labels, to show data inputs, outputs, storage points and the routes between each destination. Data flowcharts can range from simple, even hand-drawn process overviews, to in-depth, multi-level DFDs that dig progressively deeper into how the data is handled. They can be used to analyse an existing system or model a new one. Like all the best diagrams and charts, a DFD can often visually "say" things that would be hard to explain in words, and they work for both technical and nontechnical audiences, from developer to CEO. That's why DFDs remain so popular after all these years. While they work well for data flow software and systems, they are less applicable nowadays to visualizing interactive, real-time or database-oriented software or systems.

There are four main elements of a DFD — external entity, process, data store, and data flow.

External entity

An external entity, which are also known as terminators, sources, sinks, or actors, are an outside system or process that sends or receives data to and from the diagrammed system. They're either the sources or destinations of information, so they're usually placed on the diagram's edges. External entity symbols are similar across models except for Unified, which uses a stick-figure drawing instead of a rectangle, circle, or square.

Process

Process is a procedure that manipulates the data and its flow by taking incoming data, changing it, and producing an output with it. A process can do this by performing computations and using logic to sort the data, or change its flow of direction. Processes usually start from the top left of the DFD and finish on the bottom right of the diagram.

Data store

Data stores hold information for later use, like a file of documents that's waiting to be processed. Data inputs flow through a process and then through a data store while data outputs flow out of a data store and then through a process.

Data flow

Data flow is the path the system's information taken from external entities through processes and data stores. With arrows and succinct labels, the DFD can show the direction of the data flow.

The data flow diagram for Personal expense tracker system is shown in following figure 5.1

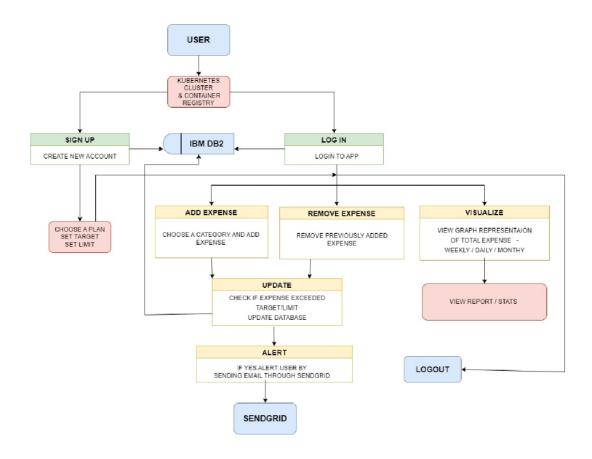


Fig 5.1 Data Flow Diagram for Personal Expense Tracker Application

5.2 SOLUTION AND TECHNICAL ARCHITECHTURE

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- Find the best tech solution to solve existing business problems.
- Describe the structure, characteristics, behaviour, and other aspects of the software to project stakeholders.
- Define features, development phases, and solution requirements.
- Provide specifications according to which the solution is defined, managed, and delivered.

The figure 5.2 shows the solution architecture of Personal expense tracker Application

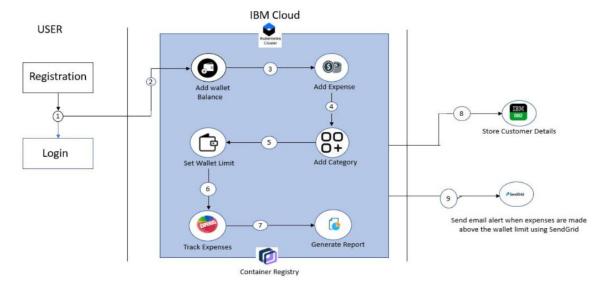


Fig 5.2 Solution Architecture of Personal Expenses Tracker Application

CHAPTER 6

PROJECT PLANNING & SCHEDULING

6.1 SPRINT PLANNING AND ESTIMATION

Sprint planning is an event in scrum that kicks off the sprint. The purpose of sprint planning is to define what can be delivered in the sprint and how that work will be achieved. Sprint planning is done in collaboration with the whole scrum team.

The sprint is a set period of time where all the work is done. However, before leap into action it is necessary to set up the sprint. It needs to decide on how long the time box is going to be, the sprint goal, and where it is going to start. The sprint planning session kicks off the sprint by setting the agenda and focus. If done correctly, it also creates an environment where the team is motivated, challenged, and can be successful.

The Table 6.1 shows the sprint planning and estimation of Personal Expense Tracker Application

Sprint	Functional Requirement (Epic)	User Story Number	User Story/Task	Story Points	Priority	Team Members
Sprint-1	Registration USN-1		As a user, I can register for the application by entering my email, password, and confirming my password.	3	High	Hariharan Nithin Ram
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	3	High	Hari Prasath
Sprint-1	Login	USN-3	As a user, I can log into the application byentering email & password		High	Jaya surya
Sprint-1	Dashboard & Logout	USN-4	As a user, once I logged in I can access all the features of the web app and Logout once I completed all the work.	5	High	Nithin Ram
Sprint-1		USN-5	Once logged In, Keep me logged for few hours to avoid repeated login if the page is refreshed	4	Medium	Jaya surya
Sprint-2	Expense	USN-6	Add total income for the month and Allow for edit option	6	High	Nithin Ram
Sprint-2		USN-7	Split the total income based on usage like entertainment, food, shopping etc.	2	Low	Hariharan
Sprint-2		USN-8	Add the day to day expense.	6	High	Jaya surya
Sprint-2		USN-9	Display the user added expense	6	High	Hari Prasath
Sprint-3		USN-10	Filter the expense data based on criteria	6	Medium	Split Between 4
Sprint-3	Charts	USN-11	As a user I can display it in graphs	4	Low	Hariharan Nithin Ram
Sprint-3	Alerts	USN-12	As a user I create custom alert for the balance	10	High	Hari Prasath Jayasurya
Sprint-4	Deployment	USN-13	As a user I should able to access it anywhere in the net	20	High	Split between 4

6.2 SPRINT DELIVERY SCHEDULE

The sprint delivery plan is scheduled accordingly as shown in the below table 6.2 which consists of the sprints with respective to their duration, sprint start and end date and the releasing data.

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

Table 6.2 Sprint Delivery Schedule done for Personal Expenses Tracker Application.

CHAPTER 7 CODING & SOLUTIONING

7.1 FEATURE 1

- E-mail message to user when expenses exceed the limit.
- Online database using IBM cloud to store the expenditure.
- Using IBM DB2 to make connection between cloud and flask app.
- Soil moisture is also monitored and notified to the user through SMS about it, so that the farmer can ensure the required level of moisture in the soil.

IBM Cloud:

The IBM Cloud platform combines platform as a service (PaaS) with infrastructure as a service (IaaS) to provide an integrated experience. The platform scales and supports both small development teams and organizations, and large enterprise businesses. Globally deployed across data centers around the world, the solution you build on IBM Cloud spins up fast and performs reliably in a tested and supported environment you can trust!

IBM Cloud provides solutions that enable higher levels of compliance, security, and management, with proven architecture patterns and methods for rapid delivery for running mission-critical workloads.

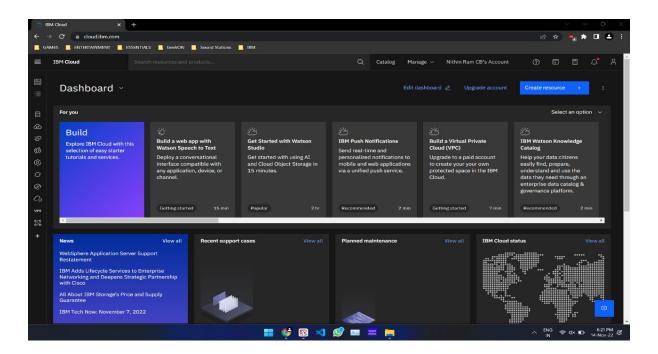
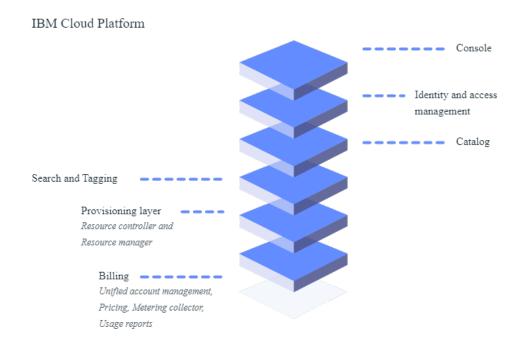


Fig 7.1 IBM cloud home screen



FLASK FRAMEWORK:

Flask is a micro web framework written in Python. It is classified as a microframework because it does not require particular tools or libraries. It has no database abstraction layer, form validation, or any other components where pre-existing third-party libraries provide common functions. However, Flask supports extensions that can add application features as if they were implemented in Flask itself. Extensions exist for object-relational mappers, form validation, upload handling, various open authentication technologies and several common framework related tools.

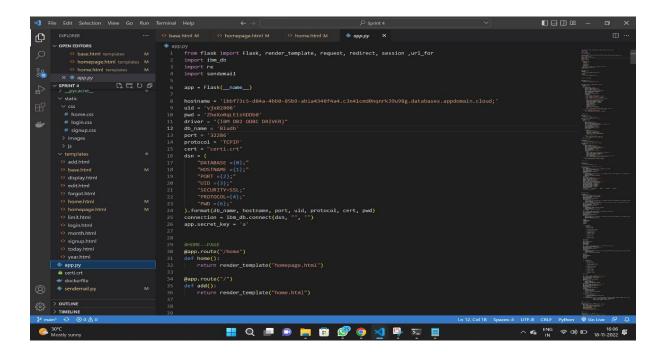


Fig 7.2 Flask App

IBM DB2 module:



- Extend schema support by allowing you to group together, in a named set, a collection of related data type definitions, database object definitions and other logic elements including:
 - SQL procedures
 - A module initialization procedure for implicit execution upon module initialization
 - User-defined data type definitions including: distinct type, array type, associative
 array type, row type, and cursor type
- Define a namespace such that objects defined within the module can refer to other objects defined in the module without providing an explicit qualifier.
- Add object definitions that are private to the module. These objects can only be referenced by other objects within the module.
- Add object definitions that are published. Published objects can be referenced from within the module or from outside of the module.
- Define published prototypes of routines without routine-bodies in modules and later implement the routine-bodies using the routine prototype.
- Initialize the module by executing the module initialization procedure for the module. This procedure can include SQL statements, SQL PL statements, and can be used to set default values for global variables or to open cursors.
- Reference objects defined in the module from within the module and from outside of the module by using the module name as a qualifier (2-part name support) or a combination of the module name and schema name as qualifiers (3-part name support).
- Drop objects defined within the module.
- Drop the module.
- Manage who can reference objects in a module by allowing you to grant and revoke the EXECUTE privilege for the module.

Docker CLI:

The Docker client enables users to interact with Docker. The Docker client can reside on the same host as the daemon or connect to a daemon on a remote host. A docker client can communicate with more than one daemon. The Docker client provides a command line interface (CLI) that allows you to issue build, run, and stop application commands to a Docker daemon.

The main purpose of the Docker Client is to provide a means to direct the pull of images from a registry and to have it run on a Docker host. Common commands issued by a client are:

- docker build
- docker pull
- docker run

IBM cloud CLI:

IBM Cloud CLI provides full management of IBM Cloud account via command line. Enable rapid application development and manage your IBM Cloud account and resources with ease. IBM Cloud Command Line Interface includes a set of powerful CLIs and tools for interacting with IBM Cloud.

SENDGRID API:



SendGrid's web API allows users to pull information about their email program without having to actually log on to SendGrid.com. Users can pull lists, statistics, and even email reports. In addition to this, users can send email via the web API without using traditional SMTP.

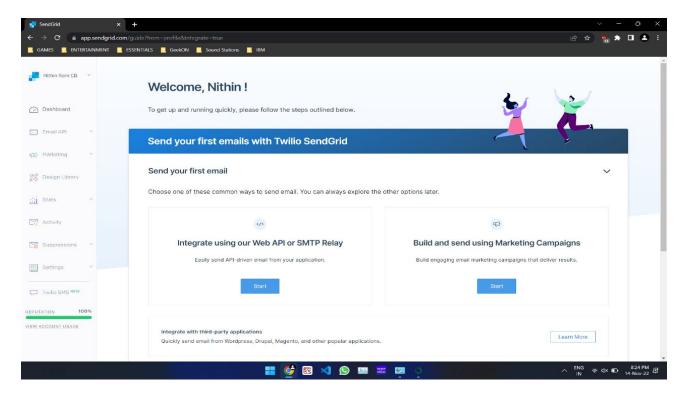


Fig 7.3 Sendgrid Platform

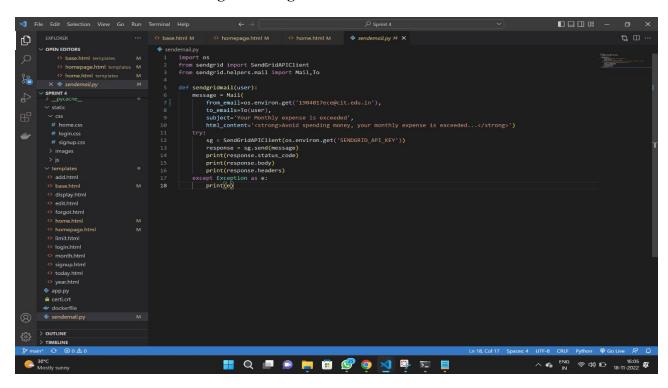


Fig 7.4 Sendgrid code to send mail

7.2 FEATURE 2

USER INTERFACE:

HOME TAB:

Javascript code to make the home page more responsive

Fig 7.5 JAVASCRIPT Code for the Home tab

The css source code of the home page is shown below

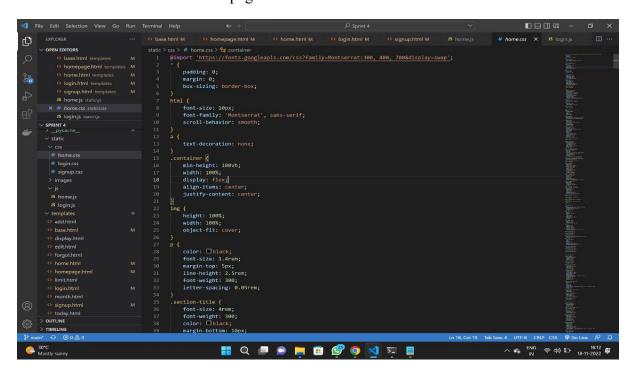


Fig 7.6 CSS Code for the Home Page

SIGNUP TAB:

The HTML source code of the sign up page is shown below

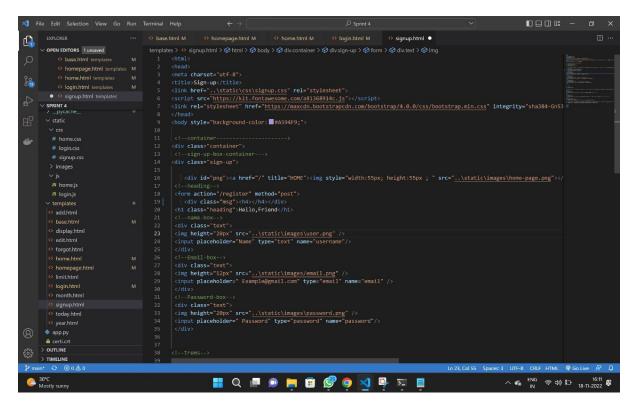


Fig 7.7 HTML code for the sign up page

The css source code of the sign up page is shown below

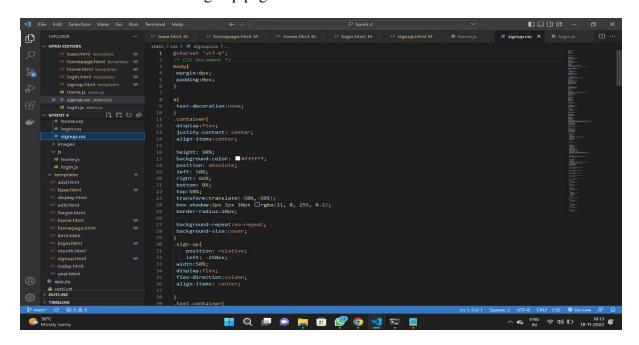


Fig 7.8 CSS code for the sign up page

LOGIN TAB:

The javascript source code of the login page is shown below

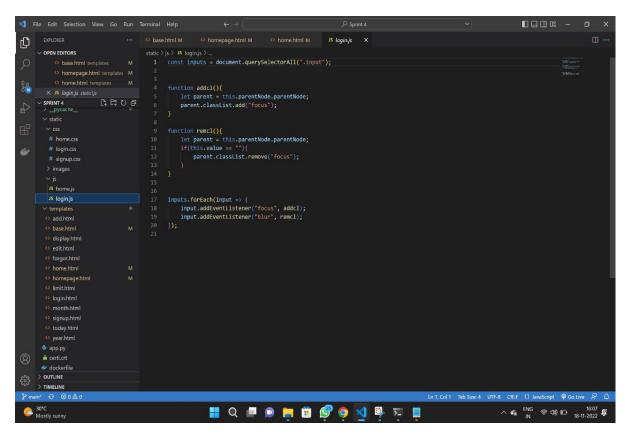


Fig 7.9 Javascript code for the login page

The HTML source code of the login page is shown below

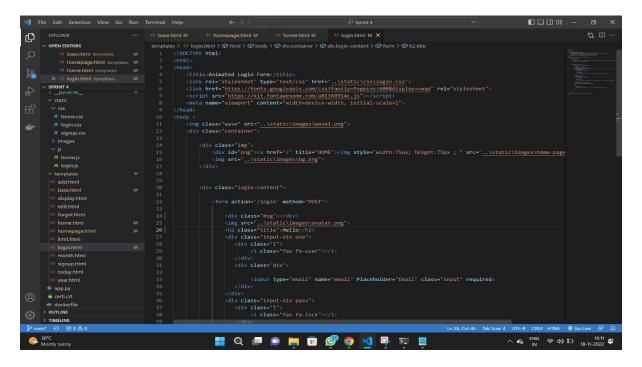


Fig 7.10 HTML code for the login page

The CSS source code of the login page is shown below

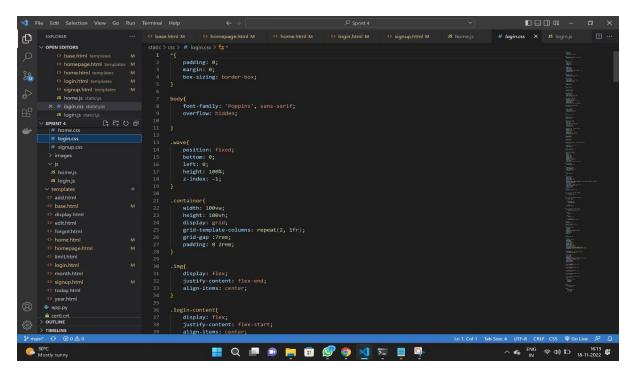


Fig 7.11 CSS code for the login page

HOMEPAGE TAB:

The HTML source code of the home page is shown below

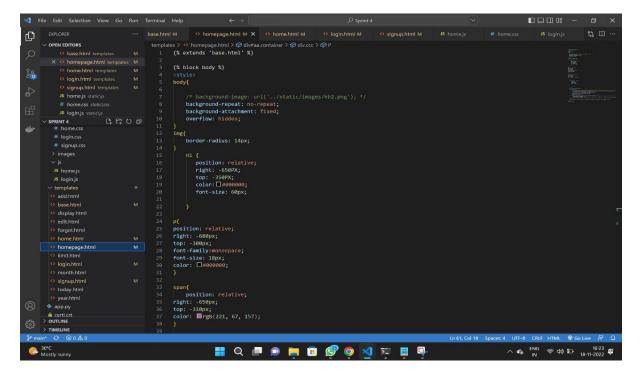


Fig 7.12 HTML code for the login page

ADD EXPENSES TAB:

The HTML source code of the add expenses page is shown below

```
| Fig. | Set | Set
```

Fig 7.13 HTML code for the add expenses page

LIMIT TAB:

The HTML source code of the set limit page is shown below

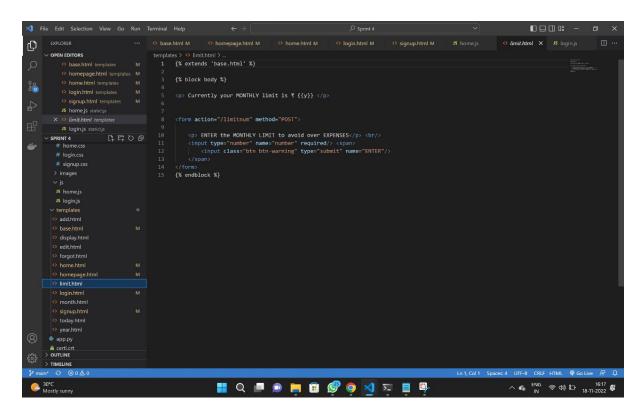


Fig 7.14 HTML code for the of the set limit page page

CHAPTER 8

TESTING

8.1 TEST CASE 1:

The primary structure of the database is created using html and the interactive features of the WEB application are made using JavaScript. CSS is used to make the WEB application more appealing to the user.

The expense details and the user information are stored in the IBM cloud.

SendGrid Webmail_service is used to send email, alerts to the user when the spending limit crosses the set value.

SIGN UP USER:

The new user sign up page is shown below

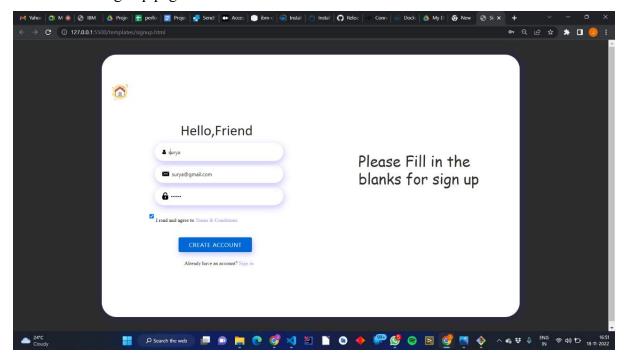


Fig 8.1 Sign up page

LOGIN USER:

The registered user login page is shown below

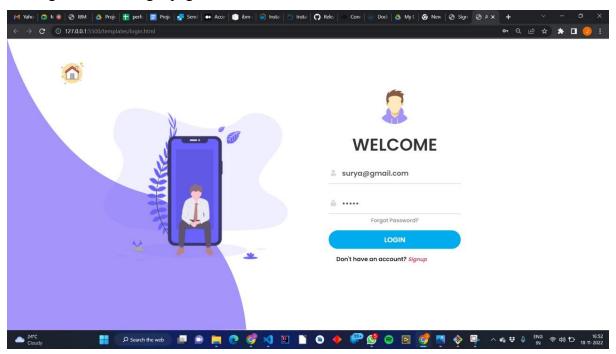


Fig 8.2 Login page

USER DASHBOARD:

The image below shows the dashboard that will greet the user once the login is approved.

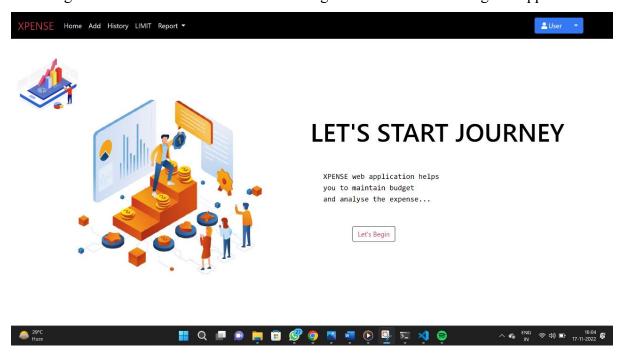


Fig 8.3 User dashboard

ADD EXPENSE:

The tab to import the user expenditure is shown below

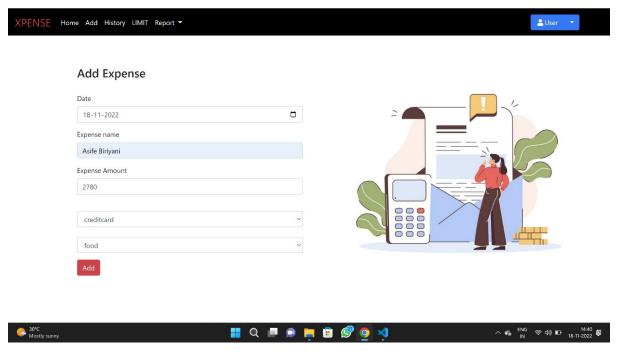


Fig 8.4 Add expenses tab

EXPENDITURE HISTORY:

The tab to view the user's history of expenses is shown below

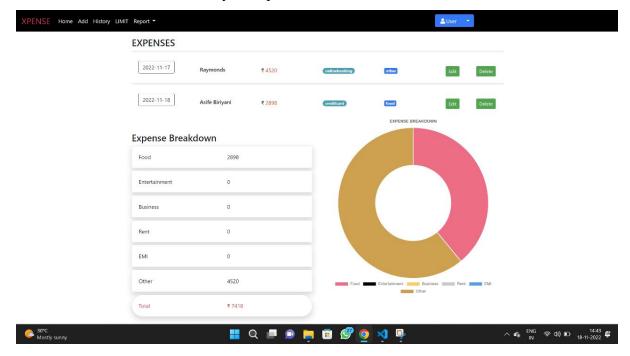


Fig 8.5 Expense history

LIMIT TAB:

Figure below shows the limit expenses tab before adding the monthly limit

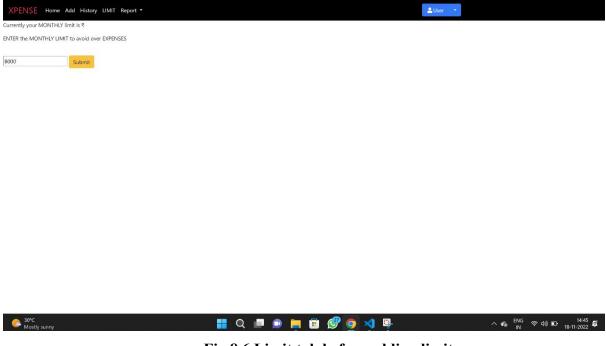


Fig 8.6 Limit tab before adding limit

Figure below shows the limit expenses page after adding the monthly limit

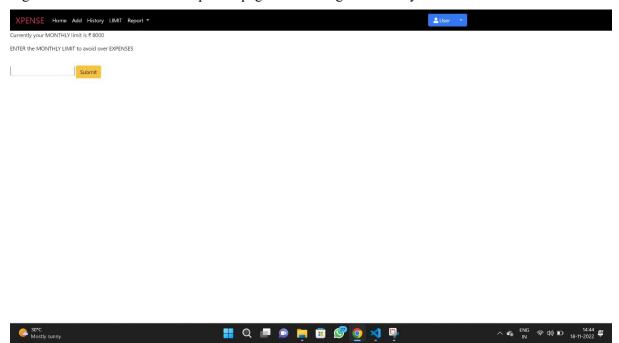


Fig 8.7 Limit tab after adding limit

REPORT TAB:

The breakdown and pie graph of the monthly expenditure that can be seen as report is shown below.

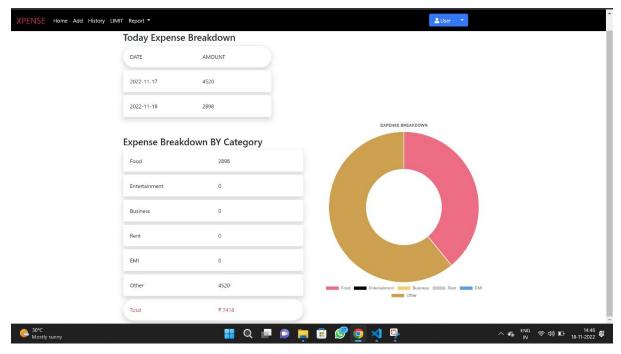


Fig 8.8 Report generated for the monthly expense

IBM CLOUD REGISTER DETAILS:

The registered user details are fetched using IBM DB2 API and stored in a table in the database in IBM cloud using SQL is shown below.

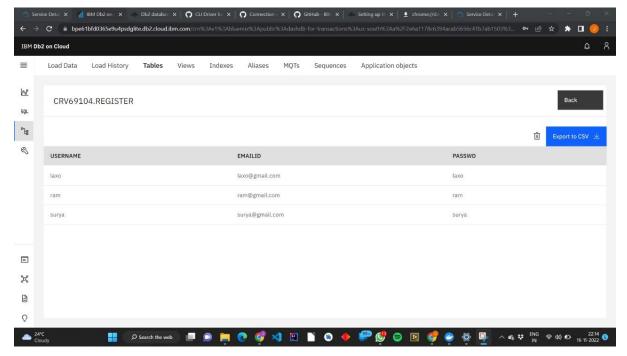


Fig 8.9 User credential table

CHAPTER 9 RESULTS

9.1 PERFORMANCE METRICS:

The performance metrics is obtained using google chrome developer tools

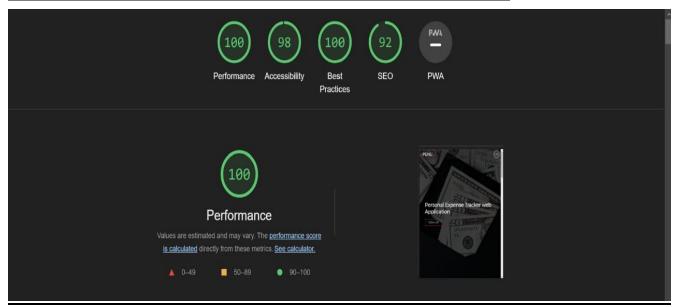


Fig 9.1 Application Performance Testing 1

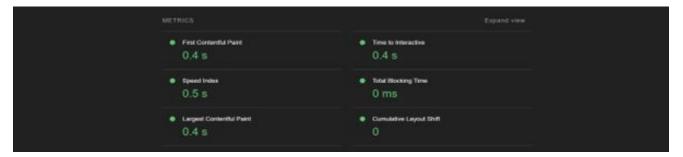


Fig 9.2 Application Performance Testing 2

9.2 FINAL OUTPUTS

The home page of the web page is shown below

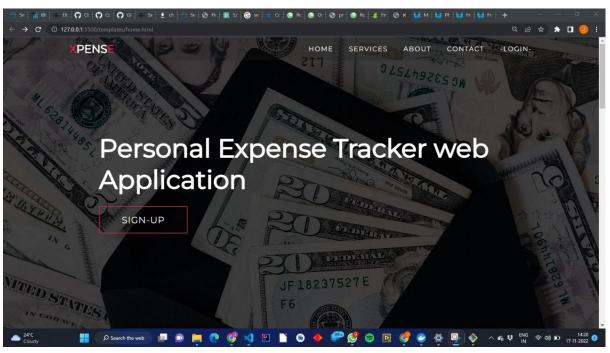


Fig 9.3 Home tab

The details of the authors are shown in the about us page.

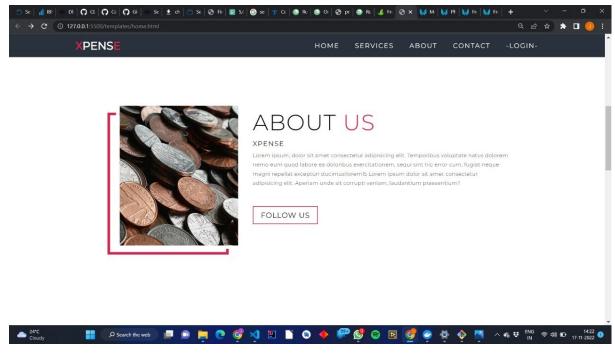


Fig 9.4 About us tab

The various features of the web application are shown below.

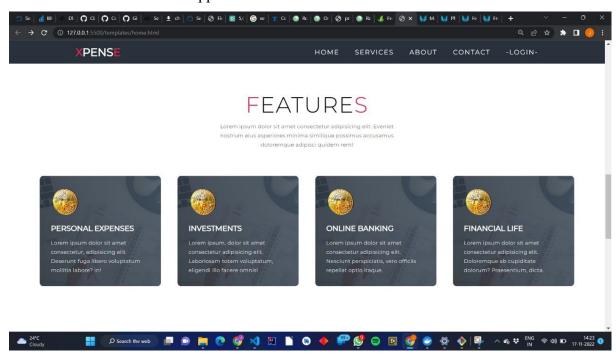


Fig 9.5 Features tab

Here the contact information of the authors is shown below.

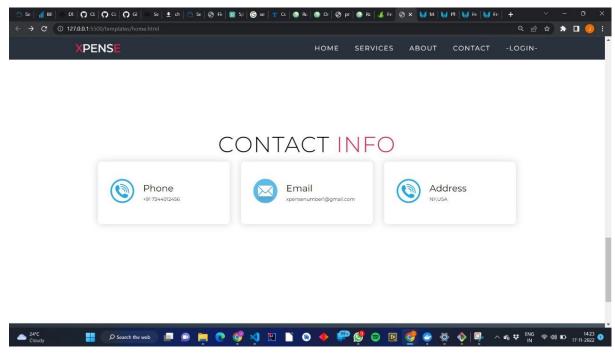


Fig 9.6 Contact us tab



Fig 9.7 Footer of the webpage

The collection of registered users stored in the database is shown below

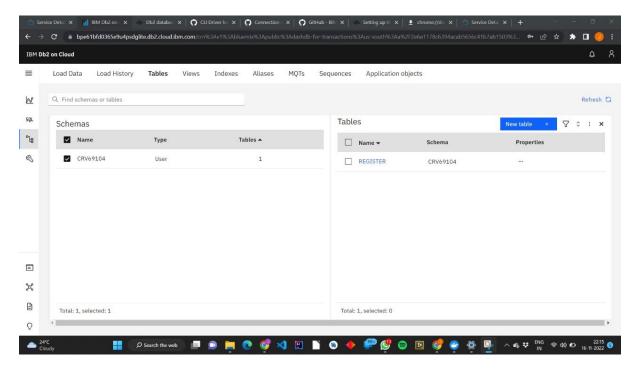


Fig 9.8 Database to store user details

The stored login credentials of the users are shown below.

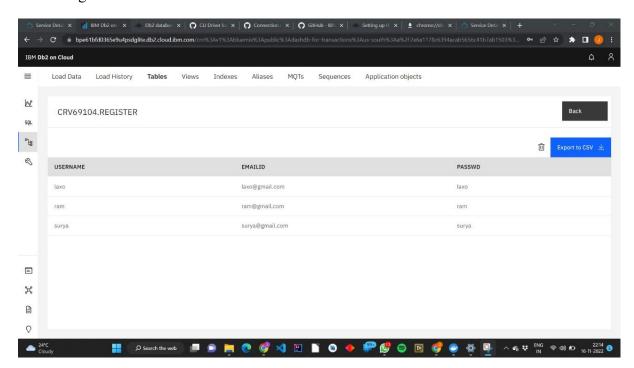


Fig 9.9 User credentials stored in the database

CHAPTER 10

ADVANTAGES AND DISADVANTAGES

ADVANTAGES

This tracker system offers a comprehensive suite of tools to assist you in controlling your spending and cash flow. In this, the user can enter his income to determine his daily spending total, and the results will be saved for that specific user. This will show the graph in the chosen view. Additionally, the user can input a monthly income or expense cap in this tracker. User can add the income and expenses that have been incurred for a month using features like add expenses categories and add income in this application. The option to attach a bill makes it easier for the user to recall how and when they made their payment. The user can optionally specify whether the payment was made using a cheque, a credit card, or cash. By simply scanning the bills or receipt copies, users of this application can save their expenses. The textual data is extracted from the receipts by this application, and the amount and description are saved for later processing.

DISADVANTAGES

If the input image from the receipt has a lot of noise, the software functions poorly since it cannot automatically recognise the region of interest. On that note, the user must specify the receipt's region in order to get the best results. Once more, in low light, character identification from the receipt performs worse. People in rural areas can't use this application effectively due of slow internet connections because it requires constant online availability. It will be challenging for anyone who are not familiar with smartphones to use this application.

•

CHAPTER 11 CONCLUSION

In today's world, time is the most valuable asset so people are more obsessed with completing tasks in lesser time and our system is an approach serving this purpose. The project is able to calculate the monthly income and expenses without having to perform a human computation. Compared to other traditional apps on the market that require manual entry, this web application can manage everyday expenses considerably more quickly. Our system compares favourably to any of the conventional applications and is most successful for those who are 40 years of age and older. The remainder will help us to remind us each second what we have set to remind. The world is moving toward one-tap solutions these days, and our system is unique. There are still many areas where the application needs to be enhanced. As a result, our system suggests a few study areas that could serve as a foundation for improving the suggested strategy.

CHAPTER 12 FUTURE SCOPE

In the future, Personal Expense Tracker Application can be further enhanced to include following features. The application can be extended to include scanning of barcode on the price tag which decreases the effort of entering the data in the input fields. When the user tries to add the same category or vendor to an expense/income record, a duplicate alert will be presented with the same category/vendor that the user entered previously for some expense/income, and he can tap on it and the entries will be automatically filled for the current record. This makes it more user friendly and less labour intensive. For instance, if a user spends Rs.100 at Chai Kings on a specific date for drinks (category) and then spends more money there the following day for the same category, when he tries to enter that in the expense details view, a duplicate pop-up will appear with Chai Kings listed as the vendor and drinks listed as the category. The user may view the whole costs/revenues in a single, much easier PDF file if a PDF capability were implemented.

Apart from keeping a personal log, we are planning to extend this system to incorporate a shared expense group

CHAPTER 13 APPENDIX

13.1 SOURCE CODE:

Home.html

```
<html lang="en">
<head>
  <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <link rel="stylesheet" href="../fontawesome-free-6.2.1-web/css/all.css">
 <link rel="stylesheet" href="..\static\css\home.css">
 <title>Fin Budget</title>
</head>
<body>
 <!-- Header -->
 <section id="header">
   <div class="header container">
     <div class="nav-bar">
       <div class="brand">
         <a href="#hero">
           <h1><span>X</span>pens<span>E</span></h1>
         </a>
       </div>
       <div class="nav-list">
         <div class="hamburger">
           <div class="bar"></div>
         </div>
         <l
           <a href="#hero" data-after="Home">Home</a>
           <a href="#services" data-after="Service">Services</a>
           <a href="#about" data-after="About">About</a>
           <a href="#contact" data-after="Contact">Contact</a>
           <LI><a href="/signin" data-after="Login">-Login-</a></LI>
         </div>
     </div>
   </div>
```

```
</section>
  <!-- End Header -->
 <!-- Hero Section -->
 <section id="hero">
    <div class="hero container">
      <div>
        <h1>Personal Expense Tracker web Application <span></span></h1>
       <a href="/signup" type="button" class="cta">Sign-up</a>
      </div>
    </div>
 </section>
  <!-- End Hero Section -->
 <!-- About Section -->
 <section id="about">
    <div class="about container">
      <div class="col-left">
       <div class="about-img">
         <img src="../static/images/img-2.jpg" alt="img">
         <!-- <div><h2>XPENSE</h2></div> -->
       </div>
      </div>
      <div class="col-right">
        <h1 class="section-title">About <span>Us</span></h1>
        <h2>XPENSE</h2>
        Lorem ipsum, dolor sit amet consectetur adipisicing elit. Temporibus voluptate natus
dolorem nemo eum quod labore ea doloribus exercitationem, sequi sint hic error cum, fugiat
neque magni repellat excepturi ducimus!lorem15
         Lorem ipsum dolor sit amet consectetur adipisicing elit. Aperiam unde sit corrupti
veniam, laudantium praesentium?
       <a href="#footer" class="cta">Follow Us</a>
      </div>
    </div>
  </section>
  <!-- End About Section -->
  <!-- Service Section -->
   <section id="services">
```

```
<div class="services container">
      <div class="service-top">
        <h1 class="section-title"><span>F</span>EATURE<span>S</span></h1>
        Lorem ipsum dolor sit amet consectetur adipisicing elit. Eveniet nostrum eius
asperiores minima similique possimus accusamus doloremque adipisci quidem rem!
      </div>
      <div class="service-bottom">
        <div class="service-item">
          <div class="icon"><img</pre>
src="../static/images/5a37e1e28e6454.7951462615136117465832.png" /></div>
          <h2>Personal Expenses</h2>
          Lorem ipsum dolor sit amet consectetur, adipisicing elit. Deserunt fuga libero
voluptatum mollitia labore? In!
       </div>
        <div class="service-item">
          <div class="icon"><img</pre>
src="../static/images/5a37e1e28e6454.7951462615136117465832.png" /></div>
          <h2>Investments</h2>
          Lorem ipsum, dolor sit amet consectetur adipisicing elit. Laboriosam totam
voluptatum, eligendi illo facere omnis!
        </div>
        <div class="service-item">
          <div class="icon"><img
src="../static/images/5a37e1e28e6454.7951462615136117465832.png" /></div>
          <h2>Online Banking</h2>
          Lorem ipsum dolor sit amet consectetur adipisicing elit. Nesciunt perspiciatis,
vero officiis repellat optio itaque.
        </div>
        <div class="service-item">
          <div class="icon"><img</pre>
src="../static/images/5a37e1e28e6454.7951462615136117465832.png" /></div>
          <h2>Financial Life</h2>
          Lorem ipsum dolor sit amet consectetur adipisicing elit. Doloremque ab cupiditate
dolorum? Praesentium, dicta.
          </div>
      </div>
    </div>
  </section>
  <!-- End Service Section -->
 <!-- Contact Section -->
  <section id="contact">
    <div class="contact container">
      <div>
```

```
<h1 class="section-title">Contact <span>info</span></h1>
    </div>
    <div class="contact-items">
      <div class="contact-item">
        <div class="icon"><img src="../static/images/pngwing.com (2).png" /></div>
        <div class="contact-info">
          <h1>Phone</h1>
          <h2>+91 7344012456</h2>
        </div>
      </div>
      <div class="contact-item">
        <div class="icon"><img src="../static/images/pngwing.com (1).png" /></div>
        <div class="contact-info">
          <h1>Email</h1>
          <h2>xpensenumber1@gmail.com</h2>
        </div>
      </div>
      <div class="contact-item">
        <div class="icon"><img src="../static/images/pngwing.com (2).png" /></div>
        <div class="contact-info">
          <h1>Address</h1>
          <h2>NY,USA</h2>
        </div>
      </div>
    </div>
  </div>
</section>
<!-- End Contact Section -->
<!-- Footer -->
<section id="footer">
  <div class="footer container">
    <div class="brand">
      <h1><span>X</span>PENS<span>E</span></h1>
    </div>
    <h2>Your Complete Financial Solution</h2>
    <div class="social-icon">
      <div class="social-item">
        <a href="https://www.instagram.com" target="_blank">
          <i class="fab fa-instagram icon"></i></i></or>
      </div>
      <div class="social-item">
        <a href="https://www.facebook.com" target=" blank" >
          <i class="fab fa-facebook icon"></i></i>
        </a>
```

```
</div>
         <div class="social-item">
           <a href="https://www.github.com" target="_blank" >
             <i class="fab fa-github icon"></i></i>
           </a>
         </div>
       </div>
       Copyright © 2022 . All rights reserved
     </div>
   </section>
   <!-- End Footer -->
   <script src="..\static\js\home.js"></script>
 </body>
 </html>
Home.css
 * {
 padding: 0;
 margin: 0;
 box-sizing: border-box;
 }
 html {
 font-size: 10px;
 font-family: 'Montserrat', sans-serif;
 scroll-behavior: smooth;
 }
 a {
 text-decoration: none;
 .container {
 min-height: 100vh;
 width: 100%;
 display: flex;
 align-items: center;
 justify-content: center;
 }
 img {
 height: 100%;
 width: 100%;
 object-fit: cover;
 }
 p {
 color: black;
 font-size: 1.4rem;
 margin-top: 5px;
```

```
line-height: 2.5rem;
font-weight: 300;
letter-spacing: 0.05rem;
.section-title {
font-size: 4rem;
font-weight: 300;
color: black;
margin-bottom: 10px;
text-transform: uppercase;
letter-spacing: 0.2rem;
text-align: center;
.section-title span {
color: #dd2251;
}
.cta {
display: inline-block;
padding: 10px 30px;
color: white;
background-color: transparent;
border: 2px solid #dd2251;
font-size: 2rem;
text-transform: uppercase;
letter-spacing: 0.1rem;
margin-top: 30px;
transition: 0.3s ease;
transition-property: background-color, color;
.cta:hover {
color: white;
background-color: #dd2251;
.brand h1 {
font-size: 3rem;
text-transform: uppercase;
color: white;
}
.brand h1 span {
color: #dd2251;
}
/* Header section */
#header {
position: fixed;
```

```
z-index: 1000;
left: 0;
top: 0;
width: 100vw;
height: auto;
#header .header {
min-height: 8vh;
background-color: rgba(31, 30, 30, 0.24);
transition: 0.3s ease background-color;
}
#header .nav-bar {
display: flex;
align-items: center;
justify-content: space-between;
width: 100%;
height: 100%;
max-width: 1300px;
padding: 0 10px;
}
#header .nav-list ul {
list-style: none;
position: absolute;
background-color: rgb(31, 30, 30);
width: 100vw;
height: 100vh;
left: 100%;
top: 0;
display: flex;
flex-direction: column;
justify-content: center;
align-items: center;
z-index: 1;
overflow-x: hidden;
transition: 0.5s ease left;
#header .nav-list ul.active {
left: 0%;
}
#header .nav-list ul a {
font-size: 2.5rem;
font-weight: 500;
letter-spacing: 0.2rem;
text-decoration: none;
color: white;
text-transform: uppercase;
```

```
padding: 20px;
display: block;
#header .nav-list ul a::after {
content: attr(data-after);
position: absolute;
top: 50%;
left: 50%;
transform: translate(-50%, -50%) scale(0);
color: rgba(240, 248, 255, 0.021);
font-size: 13rem;
letter-spacing: 50px;
z-index: -1;
transition: 0.3s ease letter-spacing;
#header .nav-list ul li:hover a::after {
transform: translate(-50%, -50%) scale(1);
letter-spacing: initial;
#header .nav-list ul li:hover a {
color: #dd2251;
#header .hamburger {
height: 60px;
width: 60px;
display: inline-block;
border: 3px solid white;
border-radius: 50%;
position: relative;
display: flex;
align-items: center;
justify-content: center;
z-index: 100;
cursor: pointer;
transform: scale(0.8);
margin-right: 20px;
#header .hamburger:after {
position: absolute;
content: '';
height: 100%;
width: 100%;
border-radius: 50%;
border: 3px solid white;
animation: hamburger_puls 1s ease infinite;
}
```

```
#header .hamburger .bar {
height: 2px;
width: 30px;
position: relative;
background-color: white;
z-index: -1;
#header .hamburger .bar::after,
#header .hamburger .bar::before {
content: '';
position: absolute;
height: 100%;
width: 100%;
left: 0;
background-color: white;
transition: 0.3s ease;
transition-property: top, bottom;
#header .hamburger .bar::after {
top: 8px;
#header .hamburger .bar::before {
bottom: 8px;
#header .hamburger.active .bar::before {
bottom: 0;
#header .hamburger.active .bar::after {
top: 0;
/* End Header section */
/* Hero Section */
#hero {
background-image: url(../images/hero-bg.jpg);
background-size: cover;
background-position: top center;
position: relative;
z-index: 1;
#hero::after {
content: '';
position: absolute;
left: 0;
top: 0;
height: 100%;
```

```
width: 100%;
background-color: black;
opacity: 0.7;
z-index: -1;
}
#hero .hero {
max-width: 1200px;
margin: 0 auto;
padding: 0 50px;
justify-content: flex-start;
}
#hero h1 {
display: block;
width: fit-content;
font-size: 4rem;
position: relative;
color: transparent;
animation: text_reveal 0.5s ease forwards;
animation-delay: 1s;
}
#hero h1:nth-child(1) {
animation-delay: 1s;
}
#hero h1:nth-child(2) {
animation-delay: 2s;
}
#hero h1:nth-child(3) {
animation: text_reveal_name 0.5s ease forwards;
animation-delay: 3s;
#hero h1 span {
position: absolute;
top: 0;
left: 0;
height: 100%;
width: 0;
background-color: #dd2251;
animation: text_reveal_box 1s ease;
animation-delay: 0.5s;
#hero h1:nth-child(1) span {
animation-delay: 0.5s;
#hero h1:nth-child(2) span {
animation-delay: 1.5s;
}
```

```
#hero h1:nth-child(3) span {
animation-delay: 2.5s;
/* End Hero Section */
/* Services Section */
#services .services {
flex-direction: column;
text-align: center;
max-width: 1500px;
margin: 0 auto;
padding: 100px 0;
}
#services .service-top {
max-width: 500px;
margin: 0 auto;
#services .service-bottom {
display: flex;
align-items: center;
justify-content: center;
flex-wrap: wrap;
margin-top: 50px;
#services .service-item {
flex-basis: 80%;
display: flex;
align-items: flex-start;
justify-content: center;
flex-direction: column;
padding: 30px;
border-radius: 10px;
background-image: url('../images/img-1.png');
background-size: cover;
margin: 10px 5%;
position: relative;
z-index: 1;
overflow: hidden;
#services .service-item::after {
content: '';
position: absolute;
left: 0;
top: 0;
height: 100%;
```

```
width: 100%;
background-image: linear-gradient(60deg, #29323c 0%, #485563 100%);
opacity: 0.9;
z-index: -1;
}
#services .service-bottom .icon {
height: 80px;
width: 80px;
margin-bottom: 20px;
color: #dd2251;
}
#services .service-item h2 {
font-size: 2rem;
color: white;
margin-bottom: 10px;
text-transform: uppercase;
}
#services .service-item p {
color: white;
text-align: left;
/* End Services Section */
/* Projects section */
#projects .projects {
flex-direction: column;
max-width: 1200px;
margin: 0 auto;
padding: 100px 0;
#projects .projects-header h1 {
margin-bottom: 50px;
#projects .all-projects {
display: flex;
align-items: center;
justify-content: center;
flex-direction: column;
#projects .project-item {
display: flex;
align-items: center;
justify-content: center;
flex-direction: column;
width: 80%;
margin: 20px auto;
```

```
overflow: hidden;
border-radius: 10px;
#projects .project-info {
padding: 30px;
flex-basis: 50%;
height: 100%;
display: flex;
align-items: flex-start;
justify-content: center;
flex-direction: column;
background-image: linear-gradient(60deg, #29323c 0%, #485563 100%);
color: white;
}
#projects .project-info h1 {
font-size: 4rem;
font-weight: 500;
#projects .project-info h2 {
font-size: 1.8rem;
font-weight: 500;
margin-top: 10px;
}
#projects .project-info p {
color: white;
}
#projects .project-img {
flex-basis: 50%;
height: 300px;
overflow: hidden;
position: relative;
#projects .project-img:after {
content: '';
position: absolute;
left: 0;
top: 0;
height: 100%;
width: 100%;
background-image: linear-gradient(60deg, #29323c 0%, #485563 100%);
opacity: 0.7;
}
#projects .project-img img {
transition: 0.3s ease transform;
}
#projects .project-item:hover .project-img img {
```

```
transform: scale(1.1);
/* End Projects section */
/* About Section */
#about .about {
flex-direction: column-reverse;
text-align: center;
max-width: 1200px;
margin: 0 auto;
padding: 100px 20px;
#about .col-left {
width: 250px;
height: 360px;
#about .col-right {
width: 100%;
#about .col-right h2 {
font-size: 1.8rem;
font-weight: 500;
letter-spacing: 0.2rem;
margin-bottom: 10px;
#about .col-right p {
margin-bottom: 20px;
#about .col-right .cta {
color: black;
margin-bottom: 50px;
padding: 10px 20px;
font-size: 2rem;
#about .col-left .about-img {
height: 100%;
width: 100%;
position: relative;
border: 10px solid white;
#about .col-left .about-img::after {
content: '';
position: absolute;
left: -33px;
top: 19px;
height: 98%;
```

```
width: 98%;
border: 7px solid #dd2251;
z-index: -1;
/* End About Section */
/* contact Section */
#contact .contact {
flex-direction: column;
max-width: 1200px;
margin: 0 auto;
width: 90%;
#contact .contact-items {
/* max-width: 400px; */
width: 100%;
}
#contact .contact-item {
width: 80%;
padding: 20px;
text-align: center;
border-radius: 10px;
padding: 30px;
margin: 30px;
display: flex;
justify-content: center;
align-items: center;
flex-direction: column;
box-shadow: 0px 0px 18px 0 #0000002c;
transition: 0.3s ease box-shadow;
#contact .contact-item:hover {
box-shadow: 0px 0px 5px 0 #0000002c;
#contact .icon {
width: 70px;
margin: 0 auto;
margin-bottom: 10px;
#contact .contact-info h1 {
font-size: 2.5rem;
font-weight: 500;
margin-bottom: 5px;
}
#contact .contact-info h2 {
font-size: 1.3rem;
```

```
line-height: 2rem;
font-weight: 500;
/*End contact Section */
/* Footer */
#footer {
background-color:#041320;
#footer .footer {
min-height: 200px;
flex-direction: column;
padding-top: 50px;
padding-bottom: 10px;
#footer h2 {
color: #0000;
font-weight: 500;
font-size: 1.8rem;
letter-spacing: 0.1rem;
margin-top: 1px;
margin-bottom: 1px;
}
#footer .social-icon {
display: flex;
margin-bottom: 30px;
#footer .social-item {
height: 25px;
width: 50px;
margin: 0 5px;
#footer .social-item i {
font-size: 5rem;
filter: grayscale(1);
transition: 0.3s ease filter;
color:#ffff;
}
#footer .social-item:hover img {
filter: grayscale(0);
}
#footer p {
color: white;
font-size: 1.3rem;
margin-bottom: 20px;
}
```

```
/* End Footer */
/* Keyframes */
@keyframes hamburger_puls {
0% {
opacity: 1;
transform: scale(1);
}
100% {
opacity: 0;
transform: scale(1.4);
@keyframes text_reveal_box {
50% {
width: 100%;
left: 0;
100% {
width: 0;
left: 100%;
@keyframes text_reveal {
100% {
color: white;
@keyframes text_reveal_name {
100% {
color:#dd2251;
font-weight: 500;
}
/* End Keyframes */
/* Media Query For Tablet */
@media only screen and (min-width: 768px) {
.cta {
font-size: 2.5rem;
padding: 20px 60px;
h1.section-title {
font-size: 6rem;
}
```

```
/* Hero */
#hero h1 {
font-size: 7rem;
/* End Hero */
/* Services Section */
#services .service-bottom .service-item {
flex-basis: 45%;
margin: 2.5%;
}
/* End Services Section */
/* Project */
#projects .project-item {
flex-direction: row;
}
#projects .project-item:nth-child(even) {
flex-direction: row-reverse;
}
#projects .project-item {
height: 400px;
margin: 0;
width: 100%;
border-radius: 0;
#projects .all-projects .project-info {
height: 100%;
}
#projects .all-projects .project-img {
height: 100%;
}
/* End Project */
/* About */
#about .about {
flex-direction: row;
#about .col-left {
width: 600px;
height: 400px;
padding-left: 60px;
/* left: -45px;
top: 34px; */
```

```
/* top:0;
left:0;
right:0;
bottom: 0;
height: 100%;
width: 100%;
border: 10px solid #dd2251; */
/* } */
#about .col-right {
text-align: left;
padding: 30px;
#about .col-right h1 {
text-align: left;
/* End About */
/* contact */
#contact .contact {
flex-direction: column;
padding: 100px 0;
align-items: center;
justify-content: center;
min-width: 20vh;
#contact .contact-items {
width: 100%;
display: flex;
flex-direction: row;
justify-content: space-evenly;
margin: 0;
}
#contact .contact-item {
width: 30%;
margin: 0;
flex-direction: row;
#contact .contact-item .icon {
height: 100px;
width: 100px;
#contact .contact-item .icon img {
object-fit: contain;
}
#contact .contact-item .contact-info {
width: 100%;
```

```
text-align: left;
padding-left: 20px;
/* End contact */
/* End Media Query For Tablet */
/* Media Query For Desktop */
@media only screen and (min-width: 1200px) {
/* header */
#header .hamburger {
display: none;
#header .nav-list ul {
position: initial;
display: block;
height: auto;
width: fit-content;
background-color: transparent;
}
#header .nav-list ul li {
display: inline-block;
}
#header .nav-list ul li a {
font-size: 1.8rem;
#header .nav-list ul a:after {
display: none;
/* End header */
#services .service-bottom .service-item {
flex-basis: 22%;
margin: 1.5%;
}
/* End Media Query For Desktop */
```

Home.javascript

```
const mobile_menu = document.querySelector('.header .nav-bar .nav-list ul');
const menu_item = document.querySelectorAll('.header .nav-bar .nav-list ul li a');
const header = document.querySelector('.header.container');
hamburger.addEventListener('click', () => {
```

```
hamburger.classList.toggle('active');
       mobile_menu.classList.toggle('active');
});
document.addEventListener('scroll', () => {
       var scroll_position = window.scrollY;
       if (scroll position > 250) {
              header.style.backgroundColor = '#29323c';
       } else {
              header.style.backgroundColor = 'transparent';
       }
});
menu_item.forEach((item) => {
       item.addEventListener('click', () => {
              hamburger.classList.toggle('active');
              mobile_menu.classList.toggle('active');
       });
});
```

Signup.html

```
<head>
<meta charset="utf-8">
<title>Sign-up</title>
<link href="..\static\css\signup.css" rel="stylesheet">
<script src="https://kit.fontawesome.com/a81368914c.js"></script>
<link rel="stylesheet"</pre>
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css" integrity="sha384-
Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm" crossorigin="anonymous">
</head>
<body style="background-color:#2d2c2c;">
 <!--container---->
<div class="container">
 <!--sign-up-box-container--->
<div class="sign-up">
    <div id="png"><a href="/" title="HOME"><img style="width:55px; height:55px; "</pre>
src="..\static\images\home-page.png"></a></div>
 <!--heading-->
 <form action="/register" method="post">
    <div class="msg"><h4></h4></div>
 <h1 class="heading">Hello,Friend</h1>
 <!--name-box-->
 <div class="text">
```

```
<img height="12px" src="../static/images/user.png" />
 <input placeholder="Name" type="text" name="username"/>
</div>
<!--Email-box-->
 <div class="text">
 <img height="12px" src="..\static\images/email.png" />
<input placeholder=" Example@gmail.com" type="email" name="email" />
</div>
 <!--Password-box-->
<div class="text">
<img height="20px" src="..\static\images\password.png" />
 <input placeholder=" Password" type="password" name="password"/>
</div>
<!--trems-->
<div class="terms">
<br><input class="check" type="checkbox" required>I
read and agree to <a href="#">Terms &amp; Conditions</a>
</div>
<!--button-->
<div class="toop">
<button type="submit" class="edit btn btn-primary" >CREATE ACCOUNT</button> </div>
<br>
</form>
<!--sign-in-->
<div class="colu">
  </div></div>
</div>
<!--text-container-->
<div class="text-container">
<h1 style="color: #2d2c2c;font-family:cursive;">Please Fill in the <br> blanks for sign
up</h1>
<!-- <div class="diag"><img class="fig1" src="../static/images/user-1.png"></div> -->
<!-- <div class="para"> <b>Welcome</b>,Please Fill in the blanks for sign up</div> -->
</div>
</div>
</body>
</html>
SIGNUP.CSS
 /* CSS Document */
```

```
body{
margin:0px;
padding:0px;
}
a{
text-decoration:none;
}
.container{
display:flex;
justify-content: center;
align-items:center;
height: 90%;
background-color: #ffffff;
position: absolute;
left: 50%;
right: 66%;
bottom: 0%;
top:50%;
transform:translate(-50%,-50%);
box-shadow:2px 2px 30px rgba(21, 8, 255, 0.2);
border-radius:40px;
border-color: aquamarine;
background-repeat:no-repeat;
background-size:cover;
}
.sign-up{
   position: relative;
   left: -250px;
width:50%;
display:flex;
flex-direction:column;
align-items: center;
}
.text-container{
   position: relative;
   top:-100px; padding-bottom:-50px;
width:50%;
height:100%;
display:flex;
flex-direction:column;
justify-content: center;
align-items: center;
margin-left:700px;
```

```
margin-bottom:-10px;
top:-40px
}
.heading{
font-family:calibri;
color:rgba(30,30,30,1);
position: relative;
left:80px ;
}
.text{
width:350px;
height:50px;
box-shadow:2px 6px 18px rgba(66,57,238,0.3);
border-radius: 30px;
display:flex;
align-items:center;
margin:10px;
}
.text input{
height:40px;
width:80%;
outline:none;
border:none;
font-size:14px;
margin:5px;
.text img{
margin-left:20px;
}
.conditions{
font-family:myriad pro;
color:#000000;
font-size:14px;
}
.trems{
   top:20px;
    position: relative;
    left:37px ;
display: flex;
align-items:center;
}
.conditions a{
color:#A594F9;
```

```
font-weight:500;
}
button{
 width:200px;
height:40px;
 outline:none;
 border:none;
 border-radius:20px;
 background-color: #dd2251;
 box-shadow:2px 6px 16px rgba(66,57,238,0.3);
 color:#FFFFFF;
 font-weight:600;
 letter-spacing:1px;
 font-weight: 13px;
}
button:active{
transform:scale(1.1);
}
.text-container p{
width:70%;
 text-align: center;
 font-family:arial;
 font-size: 15px;
 font-weight: 400;
 line-height:0px;
}
ul {
    position:relative;
    top:40px;
    left:25%;
    right:100px;
    transform: translate(-50%, -50%);
    margin: 75px;
    padding:0;
    display:flex;
    flex:auto;
  }
  ul li {
    list-style: none;
  }
  ul li a {
    position: relative;
    width:60px;
```

```
height:60px;
  display:block;
  text-align:center;
  margin:0 10px;
  border-radius: 50%;
  padding: 6px;
  box-sizing: border-box;
  text-decoration:none;
  box-shadow: 0 10px 15px rgba(0,0,0,0.3);
  background: linear-gradient(0deg, #ddd, #fff);
  transition: .5s;
}
ul li a:hover {
  box-shadow: 0 2px 5px rgba(0,0,0,0.3);
  text-decoration:none;
}
ul li a .fab {
 width: 100%;
  height:100%;
  display:block;
  background: linear-gradient(0deg, #fff, #ddd);
  border-radius: 50%;
  line-height: calc(60px - 12px);
  font-size:24px;
  color: #262626;
  transition: .5s;
}
ul li:nth-child(1) a:hover .fab {
  color: #3b5998;
}
ul li:nth-child(2) a:hover .fab {
  color: #00aced;
}
ul li:nth-child(3) a:hover .fab {
  color: #dd4b39;
}
ul li:nth-child(4) a:hover .fab {
  color: #007bb6;
}
```

```
ul li:nth-child(5) a:hover .fab {
  color: #e4405f;
}
.toop{
    position: relative;
    top: 20px;
    left: 75px;
}
.check{
    position: relative;
    top: -8px;
    left: -5px;
}
.para{
    position: relative;
    top: 0px;
    left: -45px;
}
.diag{
    position: relative;
    top:0px;
    margin: 0px;
    padding: 0px;
    width: 100px;;
    bottom: 0;
    height:0;
    background-color: #000000;
    left:-10px;
}
.fig1{
  background-color: #000000;
 width: 90rem;
    position: relative;
    size:100%;
}
#png{
    position: relative;
    left: -270px;
    top: -45px;
}
.or{
    position: relative;
    left:180px;
}
```

```
.s1{
      position: relative;
     left: 140px;
  }
  .t{
      position: relative;
     left:-100px ;
     top:10px;
  }
SIGNUP.JS
 /* CSS Document */
 body{
  margin:0px;
  padding:0px;
 }
 a{
  text-decoration:none;
 .container{
  display:flex;
  justify-content: center;
  align-items:center;
  height: 90%;
  background-color: #ffffff;
  position: absolute;
  left: 50%;
  right: 66%;
  bottom: 0%;
```

top:50%;

.sign-up{

width:50%;
display:flex;

transform:translate(-50%,-50%);

border-radius:40px;

border-color: aquamarine; background-repeat:no-repeat;

position: relative;

left: -250px;

flex-direction:column;

background-size:cover;

box-shadow:2px 2px 30px rgba(21, 8, 255, 0.2);

```
align-items: center;
.text-container{
    position: relative;
    top:-100px; padding-bottom:-50px;
 width:50%;
 height:100%;
 display:flex;
 flex-direction:column;
 justify-content: center;
 align-items: center;
 margin-left:700px;
 margin-bottom:-10px;
 top:-40px
}
.heading{
font-family:calibri;
color:rgba(30,30,30,1);
position: relative;
left:80px ;
}
.text{
width:350px;
height:50px;
 box-shadow:2px 6px 18px rgba(66,57,238,0.3);
 border-radius: 30px;
 display:flex;
 align-items:center;
margin:10px;
}
.text input{
height:40px;
width:80%;
 outline:none;
 border:none;
 font-size:14px;
margin:5px;
.text img{
margin-left:20px;
}
.conditions{
 font-family:myriad pro;
```

```
color:#000000;
 font-size:14px;
}
.trems{
    top:20px;
    position: relative;
    left:37px ;
 display: flex;
 align-items:center;
}
.conditions a{
color:#A594F9;
font-weight:500;
button{
 width:200px;
 height:40px;
 outline:none;
 border:none;
 border-radius:20px;
 background-color: #dd2251;
 box-shadow:2px 6px 16px rgba(66,57,238,0.3);
 color:#FFFFFF;
 font-weight:600;
 letter-spacing:1px;
 font-weight: 13px;
}
button:active{
 transform:scale(1.1);
}
.text-container p{
width:70%;
 text-align: center;
 font-family:arial;
 font-size: 15px;
 font-weight: 400;
 line-height:0px;
}
ul {
    position:relative;
    top:40px;
    left:25%;
    right:100px;
    transform: translate(-50%, -50%);
```

```
margin: 75px;
  padding:0;
  display:flex;
  flex:auto;
}
ul li {
  list-style: none;
}
ul li a {
  position: relative;
  width:60px;
  height:60px;
  display:block;
  text-align:center;
  margin:0 10px;
  border-radius: 50%;
  padding: 6px;
  box-sizing: border-box;
  text-decoration:none;
  box-shadow: 0 10px 15px rgba(0,0,0,0.3);
  background: linear-gradient(0deg, #ddd, #fff);
  transition: .5s;
}
ul li a:hover {
  box-shadow: 0 2px 5px rgba(0,0,0,0.3);
  text-decoration:none;
}
ul li a .fab {
  width: 100%;
  height:100%;
  display:block;
  background: linear-gradient(0deg, #fff, #ddd);
  border-radius: 50%;
  line-height: calc(60px - 12px);
  font-size:24px;
  color: #262626;
  transition: .5s;
}
ul li:nth-child(1) a:hover .fab {
  color: #3b5998;
}
```

```
ul li:nth-child(2) a:hover .fab {
  color: #00aced;
}
ul li:nth-child(3) a:hover .fab {
  color: #dd4b39;
}
ul li:nth-child(4) a:hover .fab {
  color: #007bb6;
}
ul li:nth-child(5) a:hover .fab {
  color: #e4405f;
}
.toop{
    position: relative;
    top: 20px;
    left: 75px;
}
.check{
    position: relative;
    top: -8px;
    left: -5px;
}
.para{
    position: relative;
    top: 0px;
    left: -45px;
}
.diag{
    position: relative;
    top:0px;
    margin: 0px;
    padding: 0px;
    width: 100px;;
    bottom: 0;
    height:0;
    background-color: #000000;
    left:-10px;
.fig1{
  background-color: #000000;
  width: 90rem;
```

```
position: relative;
          size:100%;
      }
      #png{
          position: relative;
          left: -270px;
          top: -45px;
      }
       .or{
          position: relative;
          left:180px;
      }
       .s1{
          position: relative;
          left: 140px;
      }
       .t{
          position: relative;
          left:-100px ;
          top:10px;
LOGIN.HTML
 <html>
 <head>
         <title>Animated Login Form</title>
         <link rel="stylesheet" type="text/css" href="..\static\css\login.css">
         <link href="https://fonts.googleapis.com/css?family=Poppins:600&display=swap"</pre>
 rel="stylesheet">
         <script src="https://kit.fontawesome.com/a81368914c.js"></script>
         <meta name="viewport" content="width=device-width, initial-scale=1">
 </head>
 <body >
         <img class="wave" src="..\static\images\wave1.png">
         <div class="container">
                <div class="img">
                        <div id="png"><a href="/" title="HOME"><img style="width:75px;</pre>
 height:75px ; " src="...\static\images\home-page.png"></a></div>
                        <img src="..\static\images\bg.png">
                </div>
                <div class="login-content">
                        <form action='/login' method="POST">
```

```
<div class="msg"></div>
                              <img src="..\static\images\avatar.png">
                              <h2 class="title">Welcome</h2>
                      <div class="input-div one">
                          <div class="i">
                                     <i class="fas fa-user"></i></i>
                          </div>
                          <div class="div">
                                      <input type="email" name="email" Placeholder="Email"</pre>
class="input" required>
                         </div>
                      </div>
                      <div class="input-div pass">
                          <div class="i">
                              <i class="fas fa-lock"></i></i>
                          </div>
                          <div class="div">
                              <input type="password" name="password" placeholder="Password"</pre>
class="input" required>
                  </div>
               </div>
               <a href="/forgot">Forgot Password?</a>
               <input type="submit" class="btn" value="Login">
                              <br>
                              <br>
                              <div class="app" >
                                     Don't have an account? <a id="app1"</p>
href="\signup">Signup</a></div>
            </form>
        </div>
    </div>
    <script type="text/javascript" src="login.js"></script>
</body>
</html>
```

LOGIN.CSS

```
<head>
<meta charset="utf-8">
<title>Sign-up</title>
<link href="..\static\css\signup.css" rel="stylesheet">
<script src="https://kit.fontawesome.com/a81368914c.js"></script>
<link rel="stylesheet"</pre>
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css" integrity="sha384-
Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm" crossorigin="anonymous">
</head>
<body style="background-color:#2d2c2c;">
<!--container---->
<div class="container">
 <!--sign-up-box-container--->
<div class="sign-up">
    <div id="png"><a href="/" title="HOME"><img style="width:55px; height:55px; "</pre>
src="..\static\images\home-page.png"></a></div>
 <!--heading-->
 <form action="/register" method="post">
    <div class="msg"><h4></h4></div>
 <h1 class="heading">Hello,Friend</h1>
 <!--name-box-->
 <div class="text">
 <img height="12px" src="../static/images/user.png" />
 <input placeholder="Name" type="text" name="username"/>
 </div>
 <!--Email-box-->
 <div class="text">
 <img height="12px" src="..\static\images/email.png" />
 <input placeholder=" Example@gmail.com" type="email" name="email" />
 </div>
 <!--Password-box-->
 <div class="text">
 <img height="20px" src="..\static\images\password.png" />
 <input placeholder=" Password" type="password" name="password"/>
 </div>
<!--trems-->
<div class="terms">
<br><input class="check" type="checkbox" required>I
read and agree to <a href="#">Terms &amp; Conditions</a>
</div>
```

```
<!--button-->
<div class="toop">
<button type="submit" class="edit btn btn-primary" >CREATE ACCOUNT</button> </div>
</form>
<!--sign-in-->
<div class="colu">
  Already have an account? <a href="/signin">Sign in</a>
</div></div>
</div>
<!--text-container-->
<div class="text-container">
<h1 style="color: #2d2c2c;font-family:cursive;">Please Fill in the <br> blanks for sign
up</h1>
<!-- <div class="diag"><img class="fig1" src="../static/images/user-1.png"></div> -->
<!-- <div class="para"> <b>Welcome</b>,Please Fill in the blanks for sign up</div> -->
</div>
</div>
</body>
</html>
```

ADD HTML

```
{% block body %}
<style>
   body{
        overflow: hidden;
    }
</style>
<div class="container">
    <div class="row">
        <div class="col-md-6">
            <br>
            <br>
            <br>
            <h3>Add Expense</h3>
            <form action="/addexpense" method="POST">
                <div class="form-group">
                    <br>
                     <label for="">Date</label>
                     <input class="form-control" type="date" name="date" id="date"></div>
                <div class="form-group"> <label for="">Expense name</label>
```

```
<input class="form-control" type="text" name="expensename"</pre>
id="expensename">
                </div>
                <div class="form-group">
                     <label for="">Expense Amount</label>
                      <input class="form-control" type="number" min="0" name="amount"</pre>
id="amount">
                </div>
                <div class="form-group">
                    <label for=""></label>
                    <select class="form-control" name="paymode" id="paymode">
                        <option selected hidden>Pay-Mode</option>
                        <option name="cash" value="cash">cash</option>
                        <option name="debitcard" value="debitcard">debitcard</option>
                        <option name="creditcard" value="creditcard">creditcard</option>
                        <option name="epayment" value="epayment">epayment</option>
                        <option name="onlinebanking"</pre>
value="onlinebanking">onlinebanking</option>
                    </select>
                 <div class="form-group">
                    <label for=""></label>
                    <select class="form-control" name="category" id="category">
                         <option selected hidden>Category</option>
                        <option name = "food" value="food">food</option>
                        <option name = "entertainment"</pre>
value="entertainment">Entertainment</option>
                        <option name = "business" value="business">Business
                        <option name ="rent" value="rent">Rent</option>
                        <option name = "EMI" value="EMI">EMI</option>
                        <option name = "other" value="other">other</option>
                    </select>
                </div>
                <input class="btn btn-danger" type="submit" value="Add" id="">
            </form>
```

```
<div style="position: relative; left: 590px; top: -460px;" class="imagge">
                <img width="120%" height="100%" src="../static/images/expense.png"</pre>
class="rounded float-left" alt="...">
               </div>
        </div>
    </div>
</div>
   {% endblock %}
BASE HTML
 <html lang="en">
 <head>
     <link rel="stylesheet"</pre>
 href="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/css/bootstrap.min.css"
 integrity="sha384-TX8t27EcRE3e/ihU7zmQxVncDAy5uIKz4rEkgIXeMed4M0jlfIDPvg6uqKI2xXr2"
 crossorigin="anonymous">
     <script src="https://cdn.jsdelivr.net/npm/chart.js@3.2.1/dist/chart.min.js"></script>
    <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-</pre>
 DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
 crossorigin="anonymous"></script>
 <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"</pre>
 integrity="sha384-9/reFTGAW83EW2RDu2S0VKaIzap3H661ZH81PoY1FhbGU+6BZp6G7niu735Sk71N"
 crossorigin="anonymous"></script>
 <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"</pre>
 integrity="sha384-B4gt1jrGC7Jh4AgTPSdUt0Bvf08shuf57BaghqFfPlYxofvL8/KUEfYiJOMMV+rV"
 crossorigin="anonymous"></script>
 <link rel="stylesheet" href="https://pro.fontawesome.com/releases/v5.10.0/css/all.css"</pre>
 integrity="sha384-AYmEC3Yw5cVb3ZcuHtOA93w35dYTsvhLPVnYs9eStHfGJvOvKxVfELGroGkvsg+p"
 crossorigin="anonymous"/>
     <title>XPENSE</title>
 </head>
 <body>
   <nav class="navbar sticky-top navbar-expand-lg navbar-light" style="background-color:</pre>
 #000000;">
```

```
<a style="color: #FFA62B; font-size: 25px;" class="navbar-brand" href="#">Fin
Budget</a>
   <button class="navbar-toggler" type="button" data-toggle="collapse" data-</pre>
target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-
expanded="false" aria-label="Toggle navigation">
     <span class="navbar-toggler-icon"></span>
   </button>
   <div class="collapse navbar-collapse" id="navbarSupportedContent">
     <a style="color: #ffffff;" class="nav-link" href="/">Home <span class="sr-</pre>
only">(current)</span></a>
       <a style="color: rgb(255, 255, 255);" class="nav-link" href="/add">Add</a>
       <a style="color: rgb(255, 255, 255);" class="nav-link"</pre>
href="/display">History</a>
       <a style="color: rgb(236, 236, 236);" class="nav-link" href="/limit">LIMIT</a>
       <a style="color: rgb(255, 255, 255);" class="nav-link dropdown-toggle" href="#"</pre>
id="navbarDropdown" role="button" data-toggle="dropdown" aria-haspopup="true" aria-
expanded="false">
         Report
         </a>
         <div class="dropdown-menu" aria-labelledby="navbarDropdown">
          <a style="color: rgb(0, 0, 0);" class="dropdown-item" href="/today">TODAY</a>
          <a style="color: rgb(0, 0, 0);" class="dropdown-item" href="/month">Month</a>
          <a style="color: rgb(0, 0, 0);" class="dropdown-item" href="/year">Year</a>
         </div>
       <div class="form-inline my-5 my-lg-1" style="position: absolute; left: 1250px;">

       <a style="color: rgb(255, 255, 255);" class="btn btn-primary" href="#"><i</pre>
class="fa fa-user fa-fw"></i>User </a>
  <a style="color: rgb(255, 255, 255);" class="btn btn-primary dropdown-toggle "href="#"</pre>
id="navbarDropdown" data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">
```

```
<div class="dropdown-menu" aria-labelledby="navbarDropdown">
               <div class="dropdown-divider"></div>
               <a class="dropdown-item" style="color: darkred;" href="/logout">Log-Out <i</pre>
   class="fa fa-sign-out" aria-hidden="true"></i></a>
             </div>
           <div >
          </div>
       </div>
    </nav>
      {% block body %}
      {% endblock %}
   </body>
   </html>
DISPLAY HTML
 {% block body %}
 <div class="container">
     <h3 class="mt-3">EXPENSES</h3>
 {% if expense is defined %}
     {% for row in expense %}
     <div class="row">
         <div class="col-md-12">
             <div class="card shadow-sm mb-2 bg-white rounded"></div>
             <div class="card-body">
                 <div class="row">
                     <div class="col-md-2">
                         <span class="btn btn-outline-dark">{{row[1]}}</span> </div>
                     <div class="col-md-2 mt-3"><H6>{{row[2]}}</H6></div>
                     <div class="col-md-2 mt-3" > ₹<span style=" color: rgb(255, 0, 0) ">
 {{row[3]}} </div>
```

```
<div class="col-md-2 mt-3">
                        <span class="badge badge-pill badge-info">{{row[4]}}</span>
                    </div>
                    <div class="col-md-2 mt-3">
                        <span class="badge badge-primary">{{row[5]}}</span>
                        <div class="col-md-1 mt-3">
                            <a href="/edit/\{\{row[6]\}\} " class="btn btn-sm btn-
success">Edit</a>
                        </div>
                        <div class="col-md-1 mt-3">
                                 <a href="/delete/{{row[6]}}" class="btn btn-sm btnDelete</pre>
btn-success">Delete</a>
                         </div>
                   </div>
            </div>
        </div>
    </div>
    <!--when no DATA-Found-->
   {% else %}
   <div class="card shadow-sm mb-2 bg-white rounded"></div>
   <div class="card-body">
   <div style="text-align: center; font-family: monospace; color:red; "><h5><a</pre>
href="/add"> ADD-DATA </a> to Display</h3></div>
    <img width=60% src="../static/images/no data found.png">
    </div>
    {% endfor %}
    {% endif %}
   <div class="row">
       <div class="col-md-6">
           <h3 class="mt-5">Expense Breakdown</h3>
           <div class="card shadow mb-2 bg-white rounded-bottom">
               <div class="card-body">
               <div class="row">
                   <div class="col-md-6">Food</div>
                   <div id="tfood" class="col-md-6"> \{\{ t_food\}\} </div>
                </div>
               </div>
           </div>
```

```
<div class="card shadow mb-2 bg-white rounded">
   <div class="card-body">
   <div class="row">
       <div class="col-md-6">Entertainment</div>
       </div>
</div>
<div class="card shadow mb-2 bg-white rounded">
   <div class="card-body">
   <div class="row">
       <div class="col-md-6">Business</div>
       <div id="tbusiness" class="col-md-6"> {{t_business}}  </div>
    </div>
   </div>
</div>
<div class="card shadow mb-2 bg-white rounded">
   <div class="card-body">
    <div class="row">
       <div class="col-md-6">Rent</div>
       <div id="trent" class="col-md-6"> {{    t_rent }}    </div>
    </div>
   </div>
</div>
<div class="card shadow mb-2 bg-white rounded">
   <div class="card-body">
   <div class="row">
       <div class="col-md-6">EMI</div>
       <div id="temi" class="col-md-6">{{ t_EMI }} </div>
    </div>
   </div>
</div>
<div class="card shadow mb-2 bg-white rounded">
   <div class="card-body">
   <div class="row">
       <div class="col-md-6">Other</div>
       <div id="tother" class="col-md-6"> {{ t_other}}</div>
```

```
</div>
      </div>
  </div>
  <div class="card shadow mb-2 btn-outline-danger rounded-pill">
      <div class="card-body">
      <div class="row">
          <div class="col-md-6">Total</div>
          <div class="col-md-6">₹ {{total}} </div>
       </div>
      </div>
  </div>
</div>
 <div class="col-md-6">
  <canvas id="myChart" width="400" height="400"></canvas>
 <script>
      let food = document.getElementById('tfood').innerHTML
     let entertainment = document.getElementById('tentertainment').innerHTML
     let business = document.getElementById('tbusiness').innerHTML
      let rent = document.getElementById('trent').innerHTML
     let emi = document.getElementById('temi').innerHTML
      let other = document.getElementById('tother').innerHTML
 var ctx = document.getElementById('myChart').getContext('2d');
  var myChart = new Chart(ctx, {
     type: 'doughnut',
      data: {
          labels: ['Food', 'Entertainment', 'Business', 'Rent', 'EMI', 'Other'],
          datasets: [{
              label: 'Expenses Chart',
              data: [food, entertainment, business, rent, emi, other],
              backgroundColor: [
              'rgb(255, 99, 132)',
              'rgb(0, 0, 0)',
              'rgb(255, 205, 86)',
              'rgb(201, 203, 207)',
                 'rgb(54, 162, 235)',
                  'rgb(215, 159, 64)'
              ],
          }]
      },
      options: {
          responsive: true,
          plugins: {
legend: {
```

```
position: 'bottom',
},
title: {
    display: true,
    text: 'EXPENSE BREAKDOWN'
}

}
}

}

// coript>
    </div>
    </div>
{/ div>
{/ endblock %}
```

FORGOT HTML

```
<head>
  <style>
   *, *:before, *:after {
  -webkit-box-sizing: border-box;
          box-sizing: border-box;
}
body {
  background-image: url('static/images/fpbg1.jpeg');
  background-repeat: no-repeat;
  background-attachment: fixed;
  background-size: cover;
  font-family: 'Lato', sans-serif;
}
/**** For Smartphones ******/
.container-center {
  position: absolute;
  left: 25%;
  width: 95%;
  height: 90%;
  -webkit-transition: all 0.1s;
  transition: all 0.1s;
  bottom: 40%;
  -webkit-transform: translateX(-50%) translateY(50%);
          transform: translateX(-50%) translateY(50%);
}
```

```
h2, img {
  text-align: center;
  color: white;
  font-weight: 10;
  text-shadow: 0px 1px rgba(0, 0, 0, 0.3);
}
h4{
  text-align: center;
  color:black;
  font-size: 1.1em;
  font-family: times;
  font-style:normal;
  line-height: 130%;
 opacity: .6;
form {
  width: 100%;
  overflow: hidden;
  background-color: #FEFEFE;
  padding: 70px 13px;
  border-radius: 21px;
  -webkit-box-shadow: 0px 5px 34px rgba(0, 0, 0, 0.1);
          box-shadow: 0px 5px 34px rgba(0, 0, 0, 0.1);
}
formgroup {
  position: relative;
  width: 100%;
  display: block;
  margin: 1em 0;
  font-size: 1em;
}
formgroup input {
  width: 100%;
  border: none;
  border-bottom: 1px solid #888888;
  padding: 8px 0;
  font-size: inherit !important;
  margin-bottom: 13px;
  outline: none;
  opacity: 0.7;
  font-weight: 600;
}
formgroup input:focus {
  opacity: 1;
```

```
border-bottom: 2px solid #F71442;
  color: #F71442;
formgroup label {
  position: absolute;
  font-size: 0.8em;
  top: -1em;
  left: 0;
  -webkit-transition: all 0.3s;
  transition: all 0.3s;
  opacity: 0.7;
  color: #888888;
  text-transform: uppercase;
}
formgroup span {
  position: absolute;
  top: -1em;
  left: -500px;
  opacity: 0;
  color: #333333;
  font-weight: bold;
  text-transform: uppercase;
  font-size: 0.8em;
  -webkit-transition: all 0.3s;
  transition: all 0.3s;
}
formgroup input:focus + label {
  left: 500px;
  opacity: 0;
formgroup input:focus ~ span {
  left: 0;
  opacity: 1;
}
.forgot {
  display: block;
  width: 100%;
  text-align: center;
  font-size: 1em;
  font-weight: bold;
  margin-top: 21px;
  opacity: 0.8;
}
#login-btn {
```

```
border: none;
  color: #FEFEFE;
  padding: 0.8em 0;
  font-size: 1em;
  font-weight: 300;
  width: 100%;
  border-radius: 55px;
  -webkit-box-shadow: 0px 3px 21px #A594F9;
          box-shadow: 0px 3px 21px #A594F9;
  background: -webkit-gradient(linear, left top, right top, from(#F98340), to(#F71442));
  background: #A594F9;
  background-size: 100%;
  text-shadow: 0px 1px 2px rgba(0, 0, 0, 0.2);
}
.social {
  margin-top: 1.8em;
  display: -webkit-box;
 display: -ms-flexbox;
  display: flex;
.social button {
 width: 50%;
 margin: 0 8px;
  padding: 10px 0;
  font-size: 0.9em;
  border: none;
  border-radius: 34px;
  -webkit-box-shadow: 0px 1px 13px rgba(0, 0, 0, 0.2);
          box-shadow: 0px 1px 13px rgba(0, 0, 0, 0.2);
  color: white;
  font-weight: bold;
  cursor: pointer;
}
.social #facebook {
  background: #1F4788;
  background: -webkit-gradient(linear, left top, right top, from(#4B77BE), to(#1F4788));
  background: linear-gradient(to right, #4B77BE, #1F4788);
  background-size: 100%;
}
.social #google {
  background: #FEFEFE;
  background: -webkit-gradient(linear, left top, right top, from(#FEFEFE), to(#f1f1f1));
  background: linear-gradient(to right, #FEFEFE, #f1f1f1);
  background-size: 100%;
  color: #F71442;
```

```
}
p {
  color: white;
  text-align: center;
}
p a {
  color: inherit;
  text-decoration: none;
  font-weight: bold;
}
/**** For Tablets *****/
@media screen and (min-width: 480px) {
  .container-center {
    width: 70%;
  }
  #login-btn {
    padding: 0.8em 0;
    font-size: 1.2em;
  }
}
/**** For Desktop Monitors ******/
@media screen and (min-width: 768px) {
  .container-center {
   width: 500px;
 }
}
  </style>
</head>
<body>
  <div class="container-center">
  <center><h1>Change Your Password</h1></center>
  <form action='/forgotpw' method="POST">
    <h4>Enter your email and new password
    </h4>
    <br>
    <formgroup>
      <input type="text" name="email" id="email" placeholder="Email"/>
      <span>enter your email</span>
    </formgroup>
```

EDIT.HTML

```
{% block body %}
<div class="container">
    <div class="row">
        <div class="col-md-6">
            <h3>Edit Expense</h3>
            <form action="/update/{{expenses[6]}}" method="POST">
                     <input type="hidden" class="form-control" name="" value =</pre>
"{{expenses[6]}}" id="">
                <div class="form-group">
                     <label for="">Date</label>
                      <input class="form-control" type="date" name="date"</pre>
value="\{\{expenses[1]\}\}" \quad id="date"></div>
             <script type="text/javascript">
                        var d = new Date(value="{{expenses[1]}}" );
                        var elem = document.getElementById("date");
                        elem.value = d.toISOString().slice(0,16);
                      </script>
                <div class="form-group"> <label for="">Expense name</label>
```

```
<input class="form-control" type="text" name="expensename"</pre>
value="{{expenses[2]}}" id="expensename">
                </div>
                <div class="form-group">
                     <label for="">Expense Amount</label>
                      <input class="form-control" type="number" min="0" name="amount"</pre>
value="{{expenses[3]}}" id="amount">
                </div>
                <div class="form-group">
                    <label for=""></label>
                    <select class="form-control" name="paymode" value="{{expenses[4]}}"</pre>
id="paymode">
                        <option selected hidden>{{expenses[4]}}</option>
                        <option value="cash">cash</option>
                        <option value="debitcard">debitcard</option>
                        <option value="creditcard">creditcard</option>
                        <option value="epayment">epayment</option>
                        <option value="onlinebanking">onlinebanking</option>
                    </select>
                 <div class="form-group">
                    <label for=""></label>
                    <select class="form-control" name="category" value="{{expenses[5]}}"</pre>
id="category">
                         <option selected hidden>{{expenses[5]}}</option>
                        <option value="food">food</option>
                        <option value="entertainment">Entertainment</option>
                        <option value="business ">Business</option>
                        <option value="rent">Rent</option>
                        <option value="EMI">EMI</option>
                        <option value="other">other</option>
                    </select>
                </div>
                <input class="btn btn-danger" type="submit" value="Update" id="">
            </form>
        </div>
    </div>
</div>
```

```
{% endblock %}
```

LIMIT.HTML

MONTH.HTML

```
<div class="card-body ">
           <div class="row">
              <div id ="ttime" class="col-md-6">{{row [0]}}</div>
              <div id="tamount" class="col-md-6"> {{row[1] }} </div>
           </div>
           </div>
       </div>
    {% endfor %}
</div>
</div>
<section>
   <div class="row">
       <div class="col-md-6">
           <h3 class="mt-5">Expense Breakdown BY Category</h3>
           <div class="card shadow mb-2 bg-white rounded-bottom">
              <div class="card-body ">
              <div class="row">
                  <div class="col-md-6">Food</div>
                  <div id="tfood" class="col-md-6"> {{ t_food}} </div>
               </div>
              </div>
           </div>
           <div class="card shadow mb-2 bg-white rounded">
           <div class="card-body">
            <div class="row">
               <div class="col-md-6">Entertainment</div>
               </div>
           </div>
        </div>
        <div class="card shadow mb-2 bg-white rounded">
           <div class="card-body">
            <div class="row">
               <div class="col-md-6">Business</div>
               <div id="tbusiness" class="col-md-6"> {{t_business}}  </div>
            </div>
           </div>
        </div>
```

```
<div class="card shadow mb-2 bg-white rounded">
     <div class="card-body">
     <div class="row">
         <div class="col-md-6">Rent</div>
         <div id="trent" class="col-md-6"> {{ t_rent }} </div>
     </div>
    </div>
 </div>
 <div class="card shadow mb-2 bg-white rounded">
    <div class="card-body">
     <div class="row">
         <div class="col-md-6">EMI</div>
         <div id="temi" class="col-md-6">{{ t_EMI }} </div>
     </div>
    </div>
 </div>
<div class="card shadow mb-2 bg-white rounded">
     <div class="card-body">
     <div class="row">
         <div class="col-md-6">Other</div>
         <div id="tother" class="col-md-6"> {{ t_other}}</div>
      </div>
    </div>
 </div>
 <div class="card shadow mb-2 btn-outline-danger rounded-pill">
     <div class="card-body">
     <div class="row">
         <div class="col-md-6">Total</div>
         <div class="col-md-6">₹ {{total}} </div>
     </div>
     </div>
</div>
</div>
<div class="col-md-6">
<canvas id="myChart" width="400" height="400"></canvas>
<script>
    let food = document.getElementById('tfood').innerHTML
    let entertainment = document.getElementById('tentertainment').innerHTML
    let business = document.getElementById('tbusiness').innerHTML
```

```
let rent = document.getElementById('trent').innerHTML
            let emi = document.getElementById('temi').innerHTML
            let other = document.getElementById('tother').innerHTML
        var ctx = document.getElementById('myChart').getContext('2d');
        var myChart = new Chart(ctx, {
            type: 'doughnut',
            data: {
                labels: ['Food', 'Entertainment', 'Business', 'Rent', 'EMI', 'Other'],
                datasets: [{
                    label: 'Expenses Chart',
                    data: [food, entertainment, business, rent, emi, other],
                    backgroundColor: [
                    'rgb(255, 99, 132)',
                    'rgb(0, 0, 0)',
                    'rgb(255, 205, 86)',
                    'rgb(201, 203, 207)',
                       'rgb(54, 162, 235)',
                        'rgb(215, 159, 64)'
                    ],
                }]
            },
            options: {
                responsive: true,
                plugins: {
      legend: {
        position: 'bottom',
     },
     title: {
        display: true,
       text: 'EXPENSE BREAKDOWN'
     }
   }
            }
       });
       </script>
       </div>
   </div>
</div>
```

```
</section>
</div>
{% endblock %}
```

TODAY.HTML

```
{% block body %}
<div class="container">
<div class="row">
    <div class="col-md-5">
        <h3 class="mt-5">Today Expense Breakdown</h3>
        <div class="card shadow mb-2 bg-white rounded-pill">
            <div class="card-body ">
            <div class="row">
                <div class="col-md-6">DATE</div>
                <div class="col-md-6"> AMOUNT </div>
             </div>
            </div>
        </div>
        {% for row in texpense %}
        <div class="card shadow mb-2 bg-white rounded-bottom">
            <div class="card-body ">
            <div class="row">
                <div id ="ttime" class="col-md-6">{{row [0]}}</div>
                <div id="tamount" class="col-md-6"> \{\{row[1] \}\} </div>
             </div>
            </div>
        </div>
    {% endfor %}
</div>
</div>
```

```
<section>
```

```
<div class="row">
   <div class="col-md-6">
      <h3 class="mt-5">Expense Breakdown BY Category</h3>
      <div class="card shadow mb-2 bg-white rounded-bottom">
          <div class="card-body ">
          <div class="row">
             <div class="col-md-6">Food</div>
             </div>
          </div>
      </div>
      <div class="card shadow mb-2 bg-white rounded">
       <div class="card-body">
       <div class="row">
           <div class="col-md-6">Entertainment</div>
           </div>
       </div>
    </div>
    <div class="card shadow mb-2 bg-white rounded">
       <div class="card-body">
       <div class="row">
           <div class="col-md-6">Business</div>
           <div id="tbusiness" class="col-md-6"> {{t_business}}  </div>
        </div>
       </div>
    </div>
    <div class="card shadow mb-2 bg-white rounded">
       <div class="card-body">
       <div class="row">
           <div class="col-md-6">Rent</div>
           <div id="trent" class="col-md-6"> {{ t_rent }} </div>
        </div>
       </div>
    </div>
    <div class="card shadow mb-2 bg-white rounded">
```

```
<div class="card-body">
    <div class="row">
        <div class="col-md-6">EMI</div>
        <div id="temi" class="col-md-6">{{ t_EMI }}
                                                       </div>
     </div>
    </div>
</div>
<div class="card shadow mb-2 bg-white rounded">
    <div class="card-body">
    <div class="row">
        <div class="col-md-6">Other</div>
        <div id="tother" class="col-md-6"> {{ t_other}}</div>
      </div>
    </div>
</div>
<div class="card shadow mb-2 btn-outline-danger rounded-pill">
    <div class="card-body">
    <div class="row">
        <div class="col-md-6">Total</div>
        <div class="col-md-6">₹ {{total}} </div>
      </div>
    </div>
</div>
</div>
<div class="col-md-6">
<canvas id="myChart" width="400" height="400"></canvas>
<script>
    let food = document.getElementById('tfood').innerHTML
    let entertainment = document.getElementById('tentertainment').innerHTML
    let business = document.getElementById('tbusiness').innerHTML
    let rent = document.getElementById('trent').innerHTML
    let emi = document.getElementById('temi').innerHTML
    let other = document.getElementById('tother').innerHTML
var ctx = document.getElementById('myChart').getContext('2d');
var myChart = new Chart(ctx, {
    type: 'doughnut',
    data: {
        labels: ['Food', 'Entertainment', 'Business', 'Rent', 'EMI', 'Other'],
        datasets: [{
            label: 'Expenses Chart',
            data: [food, entertainment, business, rent, emi, other],
            backgroundColor: [
```

```
'rgb(255, 99, 132)',
                     'rgb(0, 0, 0)',
                     'rgb(255, 205, 86)',
                     'rgb(201, 203, 207)',
                        'rgb(54, 162, 235)',
                         'rgb(215, 159, 64)'
                     ],
                }]
             },
             options: {
                 responsive: true,
                 plugins: {
       legend: {
         position: 'bottom',
       },
      title: {
         display: true,
         text: 'EXPENSE BREAKDOWN'
      }
     }
             }
         });
        </script>
        </div>
    </div>
 </div>
</section>
</div>
{% endblock %}
```

YEAR.HTML

{% block body %}

```
<div class="container">
<div class="row">
    <div class="col-md-5">
        <h3 class="mt-5">YEAR Expense Breakdown</h3>
        <div class="card shadow mb-2 bg-white rounded-pill">
            <div class="card-body ">
            <div class="row">
                <div value = "month" class="col-md-6"> </div>
                <div class="col-md-6"> AMOUNT </div>
             </div>
            </div>
        </div>
        {% for row in texpense %}
        <div class="card shadow mb-2 bg-white rounded-bottom">
            <div class="card-body">
            <div class="row">
                <div id ="ttime" class="col-md-6">{{row [0]}}</div>
                <div id="tamount" class="col-md-6"> \{\{row[1] \}\} </div>
             </div>
            </div>
        </div>
    {% endfor %}
</div>
</div>
<section>
    <div class="row">
        <div class="col-md-6">
            <h3 class="mt-5">Expense Breakdown BY Category</h3>
            <div class="card shadow mb-2 bg-white rounded-bottom">
                <div class="card-body">
                <div class="row">
                    <div class="col-md-6">Food</div>
                    <div id="tfood" class="col-md-6"> {{ t_food}}
                                                                      </div>
                </div>
                </div>
            </div>
```

```
<div class="card shadow mb-2 bg-white rounded">
   <div class="card-body">
   <div class="row">
       <div class="col-md-6">Entertainment</div>
       </div>
   </div>
</div>
<div class="card shadow mb-2 bg-white rounded">
   <div class="card-body">
   <div class="row">
       <div class="col-md-6">Business</div>
       <div id="tbusiness" class="col-md-6"> {{t_business}}  </div>
    </div>
   </div>
</div>
<div class="card shadow mb-2 bg-white rounded">
   <div class="card-body">
   <div class="row">
       <div class="col-md-6">Rent</div>
       <div id="trent" class="col-md-6"> {{    t_rent }}    </div>
    </div>
   </div>
</div>
<div class="card shadow mb-2 bg-white rounded">
   <div class="card-body">
   <div class="row">
       <div class="col-md-6">EMI</div>
       <div id="temi" class="col-md-6">{{ t_EMI }} </div>
    </div>
   </div>
</div>
<div class="card shadow mb-2 bg-white rounded">
   <div class="card-body">
   <div class="row">
       <div class="col-md-6">Other</div>
       <div id="tother" class="col-md-6"> {{ t_other}}</div>
```

```
</div>
      </div>
  </div>
  <div class="card shadow mb-2 btn-outline-danger rounded-pill">
      <div class="card-body">
      <div class="row">
          <div class="col-md-6">Total</div>
          <div class="col-md-6">₹ {{total}} </div>
       </div>
      </div>
  </div>
 </div>
 <div class="col-md-6">
  <canvas id="myChart" width="400" height="400"></canvas>
  <script>
      let food = document.getElementById('tfood').innerHTML
      let entertainment = document.getElementById('tentertainment').innerHTML
      let business = document.getElementById('tbusiness').innerHTML
      let rent = document.getElementById('trent').innerHTML
      let emi = document.getElementById('temi').innerHTML
      let other = document.getElementById('tother').innerHTML
  var ctx = document.getElementById('myChart').getContext('2d');
  var myChart = new Chart(ctx, {
      type: 'doughnut',
      data: {
          labels: ['Food', 'Entertainment', 'Business', 'Rent', 'EMI', 'Other'],
          datasets: [{
              label: 'Expenses Chart',
              data: [food, entertainment, business, rent, emi, other],
              backgroundColor: [
              'rgb(255, 99, 132)',
              'rgb(0, 0, 0)',
              'rgb(255, 205, 86)',
              'rgb(201, 203, 207)',
                 'rgb(54, 162, 235)',
                  'rgb(215, 159, 64)'
              ],
          }]
      },
      options: {
          responsive: true,
          plugins: {
legend: {
```

```
position: 'bottom',
       },
       title: {
         display: true,
         text: 'EXPENSE BREAKDOWN'
       }
     }
             }
         });
         </script>
        </div>
    </div>
 </div>
</section>
</div>
{% endblock %}
```

13.2 GITHUB AND PROJECT DEMO LINK:

GITHUB LINK

https://github.com/IBM-EPBL/IBM-Project-8135-1658909741

PROJECT DEMO LINK

 $\frac{https://drive.google.com/drive/folders/1IBLtW\ bbdGdGVRFvRe5-HP3Oi8cSxWtf?usp=sharing}{}$

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