

# **PROJECT REPORT**

## **PERSONAL EXPENSE TRACKER APPLICATION**

**TEAM ID: PNT2022TMID23434**

**Submitted by**

<b>HARSHITHA M S</b>	<b>113219031051</b>
<b>NEERAJA Y</b>	<b>113219031098</b>
<b>YUKTHA SRI K H</b>	<b>113219031166</b>
<b>ZAINAB NUSAIBA</b>	<b>113219031169</b>

## TABLE OF CONTENTS

<b>S.NO</b>	<b>TITLE</b>
<b>1</b>	<b>INTRODUCTION</b>
1.1	Project Overview
1.2	Purpose
<b>2</b>	<b>LITERATURE SURVEY</b>
2.1	Existing problem
2.2	References
2.3	Problem Statement Definition
<b>3</b>	<b>IDEATION &amp; PROPOSED SOLUTION</b>
3.1	Empathy Map Canvas
3.2	Ideation & Brainstorming
3.3	Proposed Solution
3.4	Problem Solution Fit
<b>4</b>	<b>REQUIREMENT ANALYSIS</b>
4.1	Functional requirements
4.2	Non-Functional requirements
<b>5</b>	<b>PROJECT DESIGN</b>
5.1	Data Flow Diagrams
5.2	Solution & Technical Architecture
5.3	User Stories
<b>6</b>	<b>PROJECT PLANNING &amp; SCHEDULING</b>
6.1	Sprint Planning & Estimation
6.2	Sprint Delivery Schedule
<b>7</b>	<b>CODING &amp; SOLUTIONING</b>
7.1	Feature 1
7.2	Feature 2
7.3	Database Schema
<b>8</b>	<b>TESTING</b>
8.1	Test Cases
8.2	User Acceptance Testing

**9 RESULTS**

9.1 Performance Metrics

**10 ADVANTAGES & DISADVANTAGES**

**11 CONCLUSIONS**

**12 FUTURE SCOPE**

**13 APPENDIX**

## **1. INTRODUCTION**

### **1.1 Project Overview.**

Personal expense tracker is a windows store application to be designed for tracking daily personal and business expense transactions. The main feature includes manage account book of different user, management daily transaction, report generation, supplier management, set limit for expense etc. This application helps you to track all the expenses, incomes, accounts of different user and analyzing income or expense reports. It is a flexible and adaptive application suited to personal and business man.

This application will help us to reduce the manual calculators for their daily expenses and also keep the track of the expenses.

### **1.2 Purpose**

- The Purpose of our Project is
- Report generation system(income/expense).
- Provide notifications to user using limit set for expense if it increases the limit .
- Managing the account books of different user .
- It will include the date of transaction and also will capture the photo of receipt of transaction.
- It will also add a location from where transaction had made .
- Managing returned payment of policy ,or debited income.

## **2. LITERATURE SURVEY**

### **2.1 Existing Problem:**

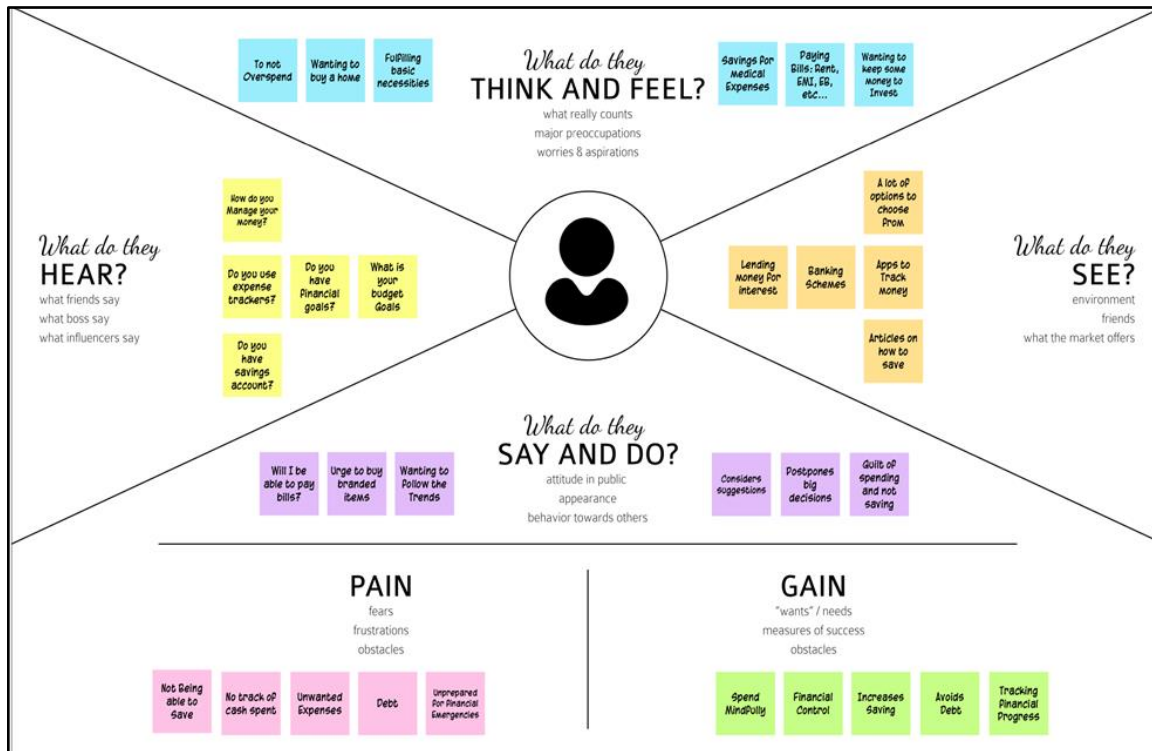
- A personal finance app will not only help you with budgeting and accounting but also give you helpful insights about money management.
- They have an option to set a limit for the amount to be used for that particular month if the limit is exceeded the user will be notified with an email alert .
- This is a personal budget management app that tracks your expenditures and income and gives you recommendations to make you economically strong.

### **2.2 References:**

- [https://www.researchgate.net/publication/347972162\\_Expense\\_Manager\\_Application](https://www.researchgate.net/publication/347972162_Expense_Manager_Application)
- [https://www.researchgate.net/publication/357644872\\_An\\_Android-Based\\_Mobile\\_Application\\_for\\_Tracking\\_Daily\\_Expenses](https://www.researchgate.net/publication/357644872_An_Android-Based_Mobile_Application_for_Tracking_Daily_Expenses)

### 3. IDEATION & PROPOSED SOLUTION

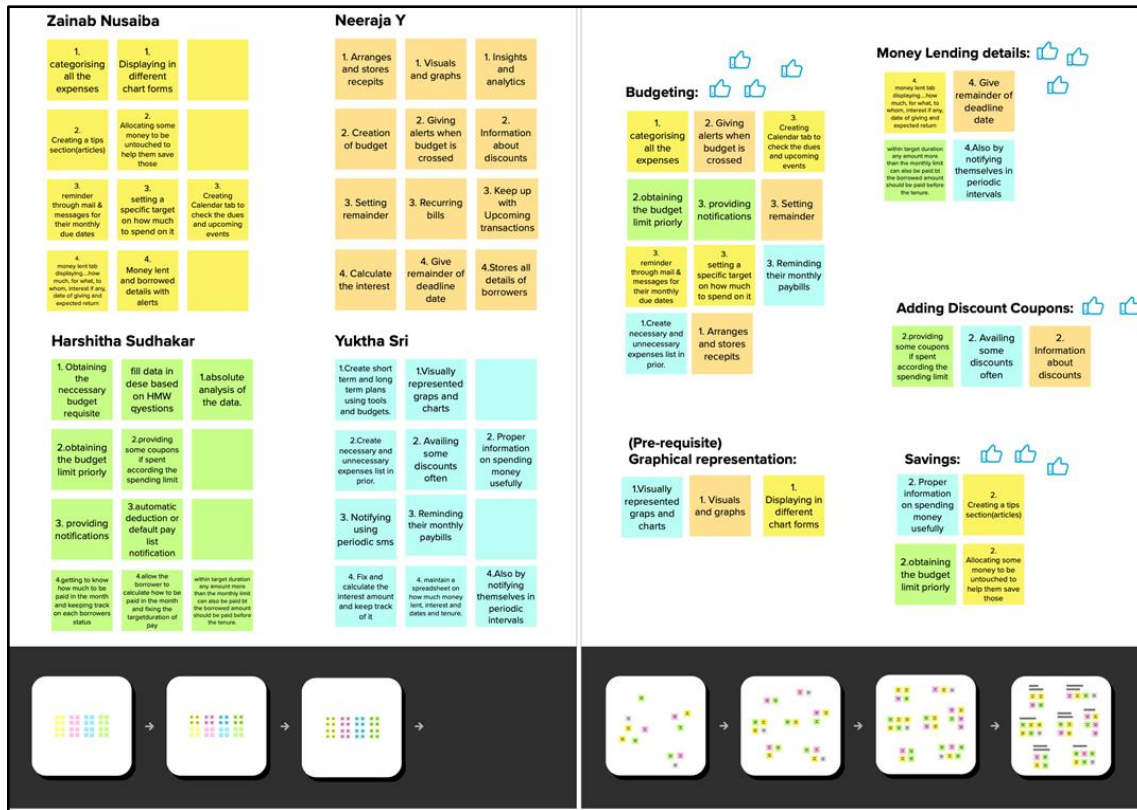
#### 3.1 EMPATHY MAP CANVAS



Link:

1. <https://app.mural.co/t/nandha5209/m/nandha5209/1663403322685/25e79a31a22cc8b819ca0d9c96bbd1909626b177?sender=u80aec0d3bca7bbaa1df83835>

### 3.2 Ideation & Brainstorming



Link:

1. <https://app.mural.co/t/ibmproject4978/m/ibmproject4978/1665222728593/a6fc027d68001365fa9ce98629b7fdf6716a0d77?invited=true&sender=u01f470fac3a4953fe1935959>

### 3.3 Proposed Solution

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	How might we create a way to get an accurate budget outlook - <b>Budgeting</b> How might we help a user reduce his unnecessary expenses - <b>Saving</b> How might we help a money lender to track the details of money he lent - <b>Money Lending</b>
2.	Idea / Solution description	<b>Budgeting</b> - Categorizing expenditures, graphs, storage of receipts, setting a spending limit on the categories <b>Saving</b> - tips(articles) page <b>Money Lending</b> - a tab representing - how much, for what, description, interest rate, date of giving and receiving
3.	Novelty / Uniqueness	<b>Budgeting</b> - remainder for monthly bills, let's you create necessary and unnecessary expenditure list in prior <b>Saving</b> - creating a budget limit for the next month beforehand, allocating some money to be untouched to help them save <b>Money Lending</b> - periodic reminders on giving or receiving the money lent
4.	Social Impact / Customer Satisfaction	The expenditures of the users will be organized and detailed which will help them not miss out on crucial details while tracking and managing their money. This will help them save better and help them to take conscious financial decisions.
5.	Business Model (Revenue Model)	Revenue model - even more detailed calculations of their expenditures such as

## 3.4 Problem Solution fit

Define CS, fit into CC	<b>1. CUSTOMER SEGMENT(S)</b> <span>CS</span> Who is your customer? i.e. working parents of 0-5 y.o. kids  <b>Working professional, Student, industrialists who want to save and track their money.</b>	<b>6. CUSTOMER CONSTRAINTS</b> <span>CC</span> What constraints prevent your customers from taking action or limit their choices of solutions? i.e. spending power, budget, no cash, network connection, available devices.  <b>We have a feature called as spending limit, which indeed asks the user to fix the spending limit as per the savings from the salary</b>	<b>5. AVAILABLE SOLUTIONS</b> <span>AS</span> Which solutions are available to the customers when they face the problem or need to get the job done? What have they tried in the past? What pros & cons do these solutions have? i.e. pen and paper is an alternative to digital notetaking  <b>Sets the remainder for the upcoming bills and keeps up the transaction.</b>	Explore AS, differentiate
	<b>2. JOBS-TO-BE-DONE / PROBLEMS</b> <span>J&amp;P</span> Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides.  <b>This is a platform for managing one's bills and allot sum for their future recurring bills without affecting their savings</b>	<b>9. PROBLEM ROOT CAUSE</b> <span>RC</span> What is the real reason that this problem exists? What is the back story behind the need to do this job? i.e. customers have to do it because of the change in regulations.  <b>To keep track of the expenses in a automated manner so that it ll be way more convenient than the traditional manual method of tracking the expenses.</b>	<b>7. BEHAVIOUR</b> <span>BE</span> What does your customer do to address the problem and get the job done? i.e. Directly related: find the right solar panel installer, calculate usage and benefits; indirectly associated: customers spend free time on volunteering work (i.e. Greenpeace)  <b>The user id asked to set the salary and the spending limit and the extra expenses so that it helps in providing the limit of utilisation.</b>	
Identify strong TR & EM	<b>3. TRIGGERS</b> <span>TR</span> What triggers customers to act? i.e. seeing their neighbour installing solar panels, reading about a more efficient solution in the news.  <b>Seeing other people spending mindfully triggers one to use this application.</b>	<b>10. YOUR SOLUTION</b> <span>SL</span> If you are working on an existing business, write down your current solution first, fill in the canvas, and check how much it fits reality. If you are working on a new business proposition, then keep it blank until you fill in the canvas and come up with a solution that fits within customer limitations, solves a problem and matches customer behaviour.  <b>Expense tracker is an android based application. This application allows the user to maintain a computerised diary. Expense tracker application which will keep a track of Expenses of a user on a day- to-day basis.</b>	<b>8. CHANNELS of BEHAVIOUR</b> <span>CH</span> <b>8.1 ONLINE</b> What kind of actions do customers take online? Extract online channels from #7  <b>8.2 OFFLINE</b> What kind of actions do customers take offline? Extract offline channels from #7 and use them for customer development.  <b>Since we are providing online it indeed helps to update the expense and in online the can work with all the feature but in offline it only shows the history.</b>	Identify strong TR & EM
	<b>4. EMOTIONS: BEFORE / AFTER</b> <span>EM</span> How do customers feel when they face a problem or a job and afterwards? i.e. lost, insecure > confident, in control - use it in your communication strategy & design.  <b>Feeling guilty about spending more than the spending limit which affects the savings may help one to track their needful savings.</b>			



## 4. REQUIREMENT ANALYSIS

### 4.1 Functional requirements

<b>Functional Requirements:</b> Following are the functional requirements of the proposed solution.		
FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP Keeping the user Logged in after validation
FR-3	User Interface	Design wireframes for all the tabs Routing for all the tabs API calls for UI functioning Creation of various tabs
FR-4	User Sets the budget	Create various inbuilt categories Allow adding user-built categories Budget constraints on various
FR-5	User adds income and expenses for visualization	Input of expense data through Forms Visualization based on the data entered
FR-6	User setting data for unavoidable expenses	Setting dates and amount in the calendar tab Email , app alerts for reminders on monthly dues
FR-7	Users saving methods	necessary and unnecessary list set by user Alert on expense entered that matches the list Allocation of money for saving Tips section
FR-8	User receives email alert when the limit is crossed	Email alert function and extra data from users Customized Settings
FR-9	Backend Connection for Database	Getting data from the users (API) Storing data on Database (API) Various category creation within databases to store different types of data
FR-10	Application Deployment	Deployment-1 of the app for trial Run trial for working with multiple user login API for handling the traffic

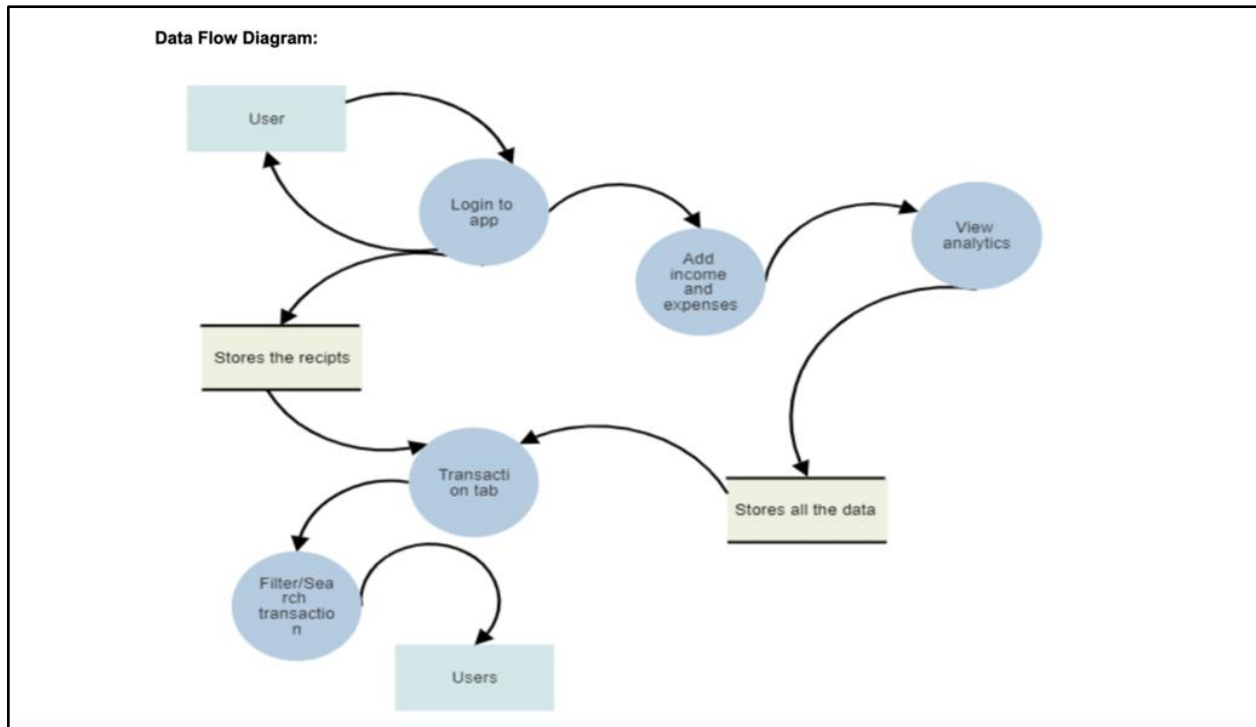
## 4.2 Non-functional requirements

Following are the non-functional requirements of the proposed solution.

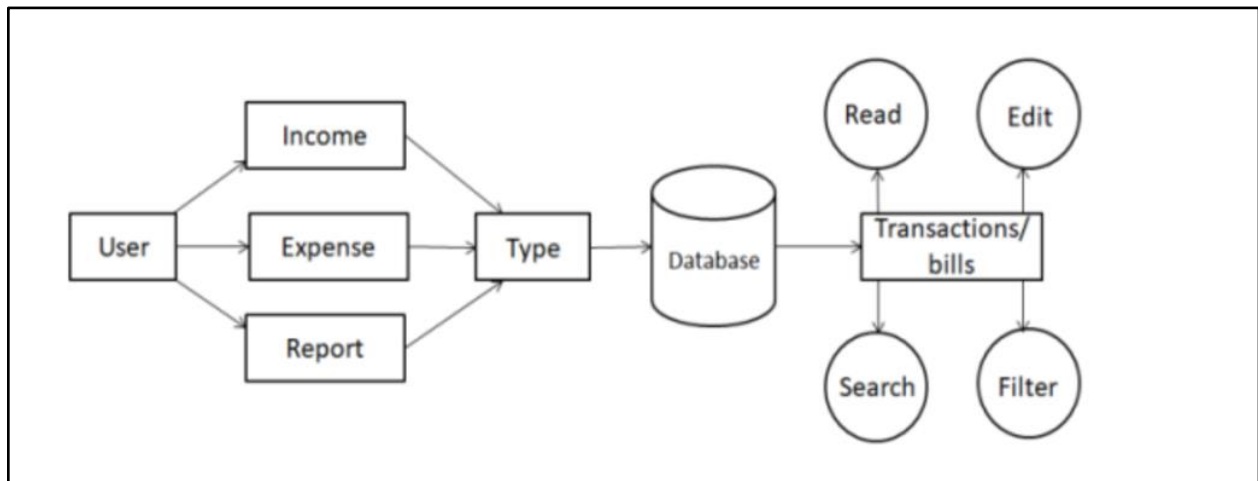
FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Consideration of User Experience and User Interface with the help of standards for web applications for better usability.
NFR-2	Security	User id logins and cookies- implemented for session-based interaction with the user.
NFR-3	Reliability	Feedback from the user will be taken and help options for the instructions and use.
NFR-4	Performance	Allowing access to Old and new device-compatible usage through coding. Better UX.
NFR-5	Availability	It will be available for all device users
NFR-6	Scalability	Future Functional requirements on controlling the scalability with customized APIs for the problems faced and the feedback received.

## 5. PROJECT DESIGN

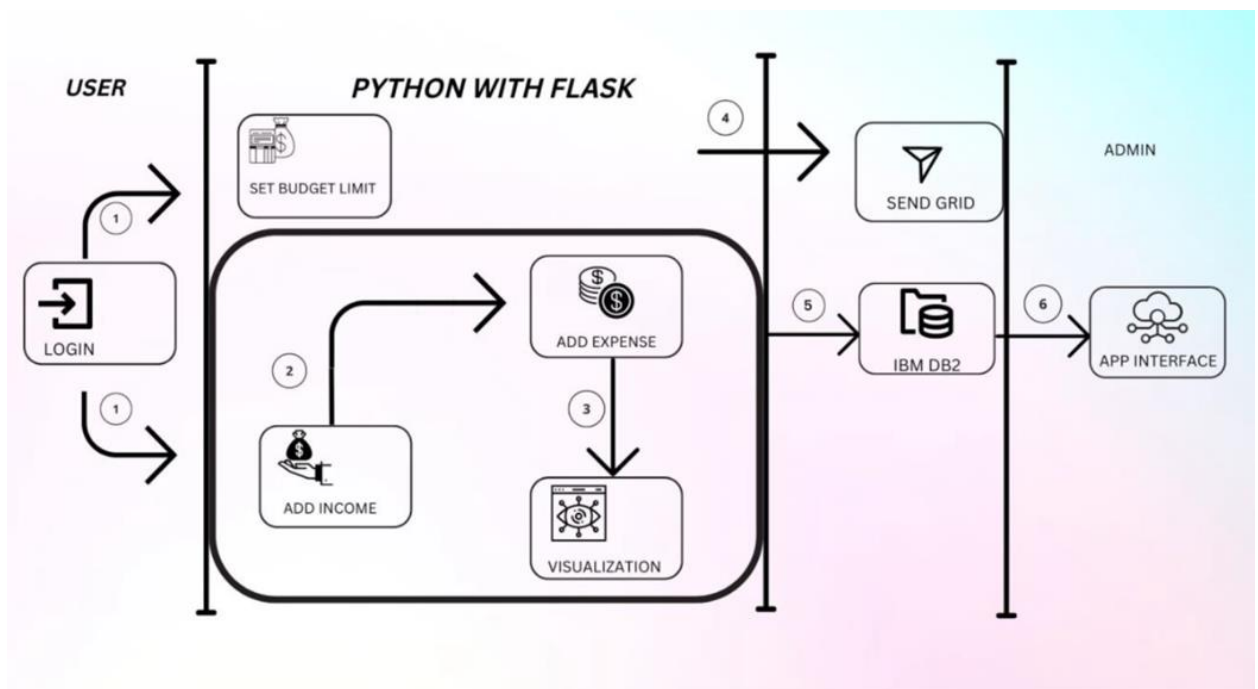
### 5.1 Data flow diagram

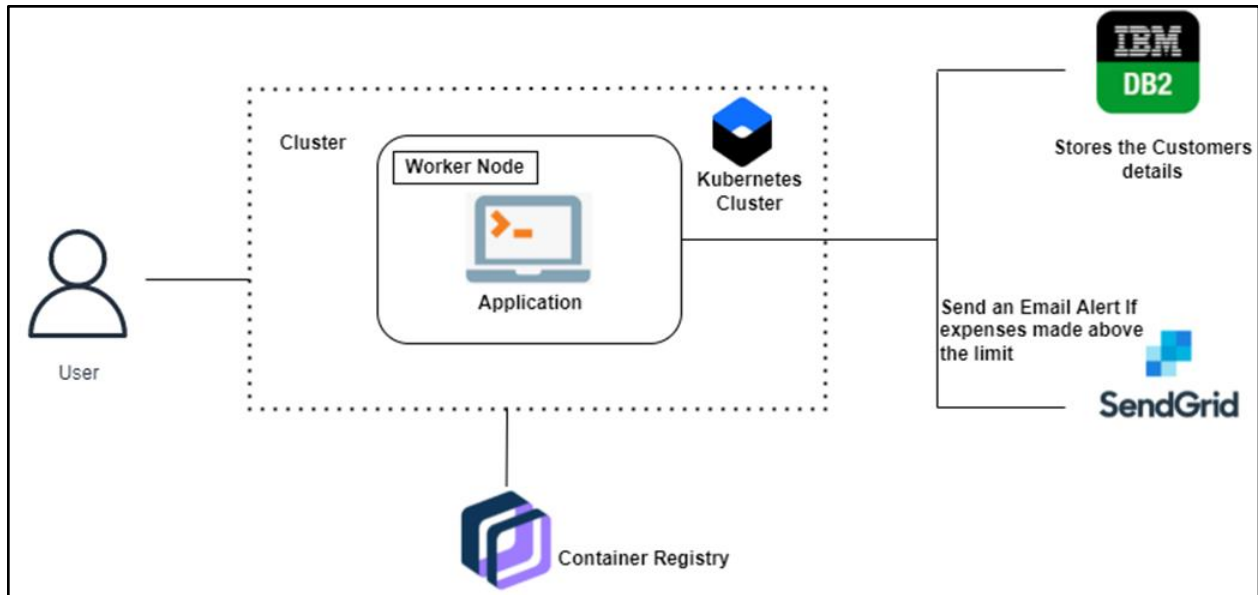


## 5.2 Solution Architecture:



## Technical architecture





### 5.3 User stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer	Registration	USN-1	As a user, I can register for the application by entering my email, and password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
		USN-2	As a user, I will receive a confirmation email once I have registered for the application	I can receive a confirmation email & click confirm	High	Sprint-1
	Login	USN-3	As a user, I can log into the application by entering the email & password	I can access my account	High	Sprint-1
	Dashboard	USN-4	As a user, I can move between different user Interfaces.	I can toggle and use the application	High	Sprint-1
Business Man	Budget	USN-5	As a user, I need to set the budget to spend within the limit	I can set the budget	High	Sprint-1
Industrialist	Analytics	USN-6	As a user, I need a graphical representation to make analytics	I can visualize in form of bar chart, pie chart	High	Sprint-1
Student	Reminders	USN-7	As a user, I need to know about the upcoming payments	I can be in alert	High	Sprint-2
Employees	Transactions Tab	USN-8	As a user, I need to search and filter transaction	I can view my transactions	Medium	Sprint-2
	Discounts	USN-9	As a user, I need to know about discounts	I can get discounts	Low	Sprint-3
Money Lenders	Money lent tab	USN-10	As a user, I need to about the details of money lent	I can store all details of borrowers	Low	Sprint-3

## 6. PROJECT PLANNING & SCHEDULING

### 6.1 Sprint Planning & Estimation

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	User Registration	USN-1	Registration through Form	2	High	Zainab
			Registration through Gmail	2	High	Zainab
Sprint-1	User Confirmation	USN-2	Confirmation via Email	2	High	Zainab
			Confirmation via OTP	2	Low	Zainab
			Keeping the user Logged in after validation	2	Medium	Zainab
Sprint-1	User Interface	USN-3	Design wireframes for all the tabs	4	High	Harshitha, Neeraja, Yuktha, and Zainab
			Routing for all the tabs	2	High	Zainab
			API calls for UI functioning	3	High	Neeraja, Zainab
			Creation of various tabs	1	High	Neeraja, Zainab
Sprint-2	User Sets the budget	USN-4	Create various inbuilt categories	2	High	Zainab
			Allow adding user-built categories	2	High	Neeraja, Yuktha, Harshitha

### 6.2 Sprint Delivery Schedule:

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority
			Budget constraints on various	2	High
Sprint-2	User adds income and expenses for visualization	USN-5	Input of expense data through Forms	3	High
			Visualization based on the data entered	3	High
Sprint-2	User setting data for unavoidable expenses	USN-6	Setting dates and amount in the calendar tab	5	High
			Email , app alerts for reminders on monthly dues	3	High
Sprint-3	Users saving methods	USN-7	necessary and unnecessary list set by user	2	High
			Alert on expense entered that matches the list	1	High
			Allocation of money for saving(no actual transaction)	2	Medium
Sprint-3	User receives email alert when the limit is crossed	USN-8	Tips section	2	Medium
			Email alert function and extra data from users	2	Medium
			Customized Settings	2	Medium
Sprint-3	Backend Connection for Database	USN-9	Getting data from the users (API)	2	High
			Storing data on Database (API)	3	High
			Various category creation within databases to store different types of data	4	High
Sprint-4	Application Deployment	USN-10	Deployment-1 of the app for trial	5	High
			Run trial for working with multiple user login	10	High
			API for handling the traffic/errors (if any)	5	Medium

## 7. CODING & SOLUTIONING

### 7.1 Feature 1

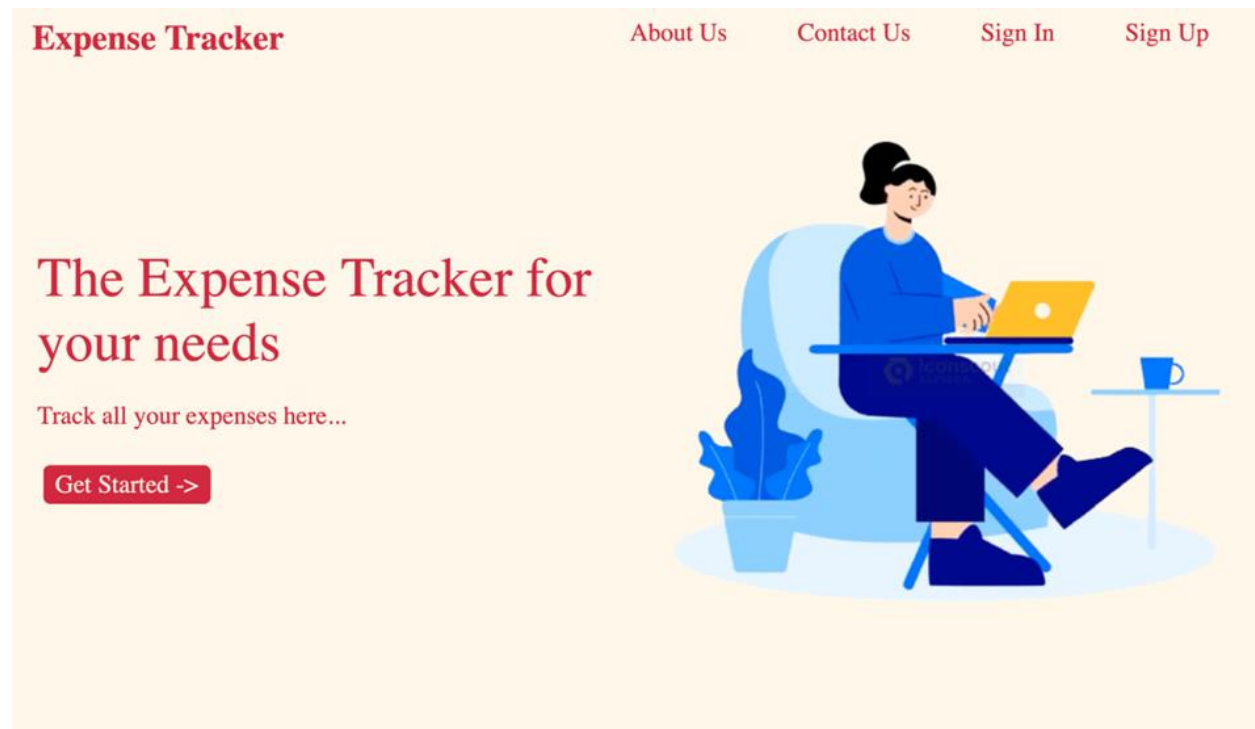
#### Description:

After making this application we assure that this application will help its users to manage the cost of their daily expenditure. It will guide them and make them aware about their daily expenses. It will prove to be helpful for the people who are frustrated with their daily budget management, irritated because of the amount of expenses and wish to manage money and to preserve the record of their daily cost which may be useful to change their way of spending money. In short, this application will help its users to overcome the wastage of money.

#### HOME PAGE:

##### SPRINT 1:

##### Landing Page:



##### SPRINT 1:

#### App.py:

```
from flask import Flask, request, redirect
from flask import Blueprint, render_template
app = Flask(__name__)
app.debug = True
```



```
@app.route('/')
def landingPage():
    return render_template("landingPage.html")

@app.route('/navbar')
def navbar():
    return render_template("Navbar.html")

@app.route('/contactus')
def contactus():
    return render_template("contactUs.html")

@app.route('/signup')
def signup():
    return render_template("signUp.html")

@app.route('/signin')
def signin():
    return render_template("signIn.html")

@app.route('/aboutus')
def aboutus():
    return render_template("aboutUs.html")

@app.route('/skeleton')
def skeleton():
    return render_template("skeleton.html")

@app.route('/dashboard')
def dashboard():
    return render_template("dashboard.html")

@app.route('/addingExpenses')
def addingExpenses():
    return render_template("addingExpenses.html")

if __name__ == '__main__':
    app.run()
```

Index code:

### Navbar.html:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <link
      rel="stylesheet"
      href="{ {url_for('static',filename='css/Navbar.css')}}"
    />
  </head>
  <body>
    <nav>
      <a href="/" class="appName">Expense Tracker</a>
      <div class="rightNav">
        <span><a href="/aboutus" class="landingLink"> About Us</a></span>
        <span><a href="/contactus" class="landingLink"> Contact Us</a></span>
        <span><a href="/signin" class="landingLink">Sign In</a> </span>
        <span><a href="/signup" class="landingLink">Sign Up</a></span>
      </div>
    </nav>
  </body>
</html>
```

Navbar.css:

```
nav {
  display: flex;
  justify-content: space-between;
}
.appName {
  font-size: 2.5rem;
  font-weight: bold;
  color: #d32840;
  text-decoration: none;
}
.landingLink {
  text-decoration: none;
  font-size: 1.8rem;
  font-weight: 500;
  margin: 0rem 1rem;
```



```
padding: 0.3rem 1rem;
color: #d32840;
}
.landingLink:hover {
border-bottom: 4px solid #d32840;
}
.active {
border-bottom: 4px solid #d32840;
}
```

SignIn.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8" />
<meta http-equiv="X-UA-Compatible" content="IE=edge" />
<meta name="viewport" content="width=device-width, initial-scale=1.0" />
<link
rel="stylesheet"
href="{ { url_for('static',filename='css/signIn.css') } }"
/>
<title>signIn</title>
</head>
<body>
{ % include 'Navbar.html' % }
<h1>Sign In Page</h1>
<div class="signin" style="border:1px solid rgb(30, 28, 28)">
<form action="">
<label for="username"><b>username</b></label>
<input type="text" placeholder="Enter username" name="username" required
class="name"></br></br>
<label for="psw"><b>Password</b></label>
<input type="password" placeholder="Enter Password" name="psw" required
class="psw"></br></br>
</form>
<p class="or">or</p>
<a href="/login" target="_blank"><button class="googlelogin">Signin with google</button></a>
</div>
</body>
</html>
```

SignIn.css:

```
* {
background-color: #fff7e9;
margin: 0.4rem;
}
```

```

body{
  color: red
}
.signin{
width:30%;
height: 50%;
margin: 3%;
}
.name,.psw,.googlelogin{
  color: red;
  border: 1px solid rgb(30, 28, 28);
  padding: 1%;
}
.googlelogin{
  margin-left: 25%;
}
.or{
  padding-left: 35%;
}

```

SignUp.html:

```

<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Sign Up</title>
    <link
      rel="stylesheet"
      href="{ { url_for('static',filename='css/signUp.css') } }"
    />
  </head>
  <body>
    {% include 'Navbar.html' %}
    <h1>Sign Up Page</h1>
    <section class="signup" style="border:1px solid rgb(32, 30, 30)">
      <form action="" class="hero">
        <label for="fullname"><b>Full Name</b></label>
        <input type="text" placeholder="Enter name" name="name" class="name" required></br></br>
        <label for="email"><b>Email</b></label>
        <input type="text" placeholder="Enter Email" name="email" class="email" required></br></br>
        <label for="username"><b>Username</b></label>
        <input type="text" placeholder="Enter username" name="username" class="username"
required></br></br>

```

```

        <label for="psw"><b>Password</b></label>
        <input type="password" placeholder="Enter Password" name="psw" class="psw"
required></br></br>
        <label for="psw-repeat"><b>Repeat Password</b></label>
        <input type="password" placeholder="Repeat Password" name="psw-repeat" class="psw-repeat"
required></br></br>
        <div class="clearfix">
            <button type="button" class="cancelbtn">Cancel</button></br>
            <button type="submit" class="signupbtn">Sign Up</button>
        </div>
        <p class="or">or</p>
        <a href="/login" target="_blank"><button class="google">sign up with google</button></a>
    </section>
</body>
</html>

```

SignUp.css:

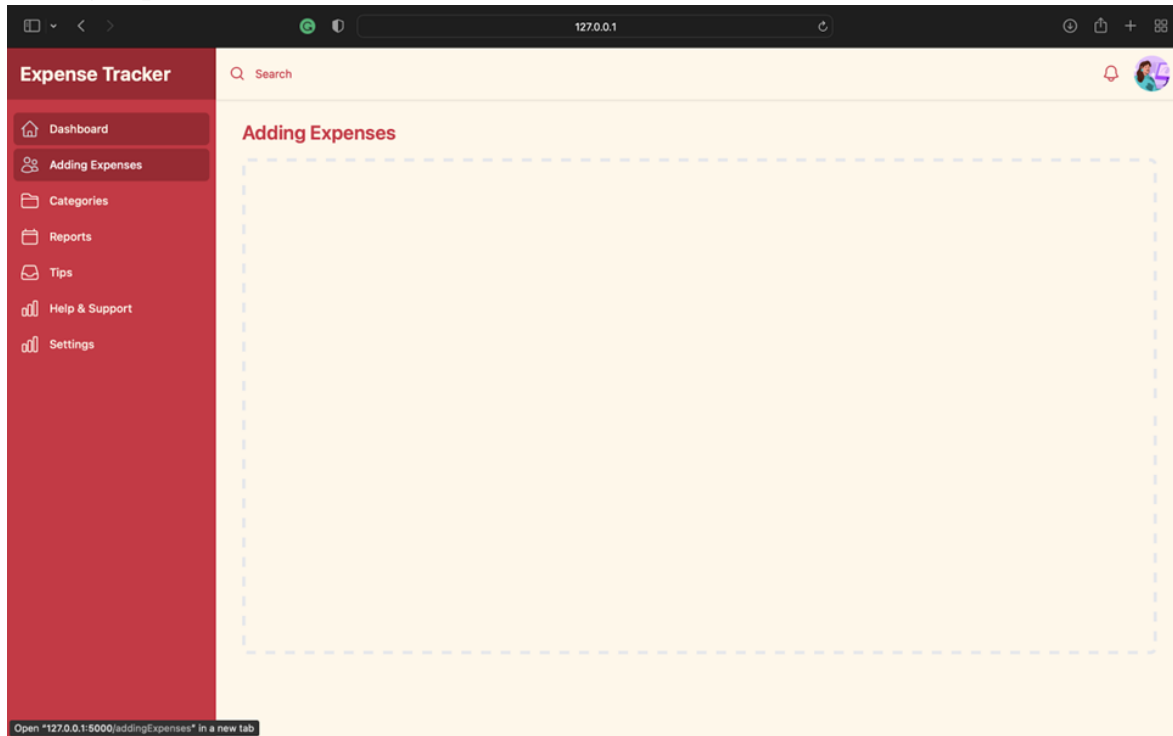
```

* {
    background-color: #fff7e9;
    margin: 0.4rem;
}
body{
    color: red;
}
.signup{
width:30%;
height: 50%;
margin: 3%;
}
.cancelbtn,.signupbtn,.name,.email,.psw,.psw-repeat,.username,.google,.login{
    color: red;
    border: 1px solid rgb(32, 30, 30);
    padding: 1%;
}
.cancelbtn,.signupbtn,.or{
    margin-left: 27%;
}
.google{
    margin-left: 20%;
}
.or{
    margin-left: 30%;
}

```

## SPRINT 2:

### Adding Expense:



## PYTHON CODE FOR SPRINT 2:

```
from flask import Blueprint,render_template
views = Blueprint('views',__name__)

@views.route('/')
def landingPage():
    return render_template("landingPage.html")

@views.route('/dashboard')
def dashboard():
    return render_template("dashboard.html")

@views.route('/aboutus')
def aboutUs():
    return render_template("aboutUs.html")

@views.route('/contactus')
```

```
def contactUs():
    return render_template("contactUs.html")

@views.route('/transactions')
def transactions():
    return render_template("transactions.html")

@views.route('/addingExpenses')
def addingExpenses():
    return render_template("addingExpenses.html")
```

```
@views.route('/categories')
def categories():
    return render_template("categories.html")
```

```
@views.route('/reports')
def reports():
    return render_template("reports.html")
```

```
@views.route('/tips')
def tips():
    return render_template("tips.html")
```

```
@views.route('/help&support')
def helpAndSupport():
    return render_template("help&support.html")
```

```
@views.route('/settings')
def settings():
    return render_template("settings.html")
```

```
@views.route('/notifications')
def setnotificationsings():
    return render_template("notifications.html")
```

```
@views.route('/skeleton')
def skeleton():
    return render_template("skeleton.html")
```

```
# stores main views or the url endpoints for the functioning of the frontend aspect
# anything that's not related to authentication and just for navigation
BASE CODE:
# stores database models in this
```

Skeleton.html:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />

    <link
      rel="stylesheet"
      href="{ { url_for('static',filename='css/skeleton.css') } }"
    />
    <script src="https://cdn.tailwindcss.com"></script>
  </head>
  <body class="bg-[#fff7e9]">
    <div>
      <div class="relative z-40 md:hidden" role="dialog" aria-modal="true">

        <div class="fixed inset-0 bg-[#d32840] bg-opacity-75"></div>

        <div class="fixed inset-0 z-40 flex">
          >
            <div
              class="relative flex w-full max-w-xs flex-1 flex-col bg-gray-800 pt-5 pb-4"
            >

              <div class="absolute top-0 right-0 -mr-12 pt-2">
                <button
                  type="button"
                  class="ml-1 flex h-10 w-10 items-center justify-center rounded-full focus:outline-none
focus:ring-2 focus:ring-inset focus:ring-white"
                >
                  <span class="sr-only">Close sidebar</span>

                <svg
                  class="h-6 w-6 text-white"
                  xmlns="http://www.w3.org/2000/svg"
                  fill="none"
                  viewBox="0 0 24 24"
                  stroke-width="1.5"
                  stroke="currentColor"
                  aria-hidden="true"
                >
                  <path
```

```

        stroke-linecap="round"
        stroke-linejoin="round"
        d="M6 18L18 6M6 6l12 12"
      />
    </svg>
  </button>
</div>

<div class="flex flex-shrink-0 items-center px-4">

</div>
<div class="mt-5 h-0 flex-1 overflow-y-auto">
  <nav class="space-y-1 px-2 ">

    <a
      href="/dashboard"
      class="bg-gray-900 text-white group flex items-center px-2 py-2 text-base font-medium
rounded-md"
    >
      <!-- Heroicon name: outline/home -->
      <svg
        class="text-gray-300 mr-4 flex-shrink-0 h-6 w-6"
        xmlns="http://www.w3.org/2000/svg"
        fill="none"
        viewBox="0 0 24 24"
        stroke-width="1.5"
        stroke="currentColor"
        aria-hidden="true"
      >
        <path
          stroke-linecap="round"
          stroke-linejoin="round"
          d="M2.25 12l8.954-8.954c.44-.439 1.152-.439 1.591 0L21.75 12M4.5 9.75v10.125c0
.621.504 1.125 1.125 1.125H9.75v-4.875c0-.621.504-1.125 1.125-1.125h2.25c.621 0 1.125.504 1.125
1.125V21h4.125c.621 0 1.125-.504 1.125-1.125V9.75M8.25 21h8.25"
        />
      </svg>
      Dashboard
    </a>

    <a
      href="#"
      class="text-gray-300 hover:bg-[#a31d2f] hover:text-white group flex items-center px-2 py-2
text-base font-medium rounded-md"

```

```

>
<!-- Heroicon name: outline/users -->
<svg
  class="text-gray-400 group-hover:text-gray-300 mr-4 flex-shrink-0 h-6 w-6"
  xmlns="http://www.w3.org/2000/svg"
  fill="none"
  viewBox="0 0 24 24"
  stroke-width="1.5"
  stroke="currentColor"
  aria-hidden="true"
>
  <path
    stroke-linecap="round"
    stroke-linejoin="round"
    d="M15 19.128a9.38 9.38 0 002.625 3.72 9.337 9.337 0 004.121-.952 4.125 4.125 0 00-
7.533-2.493M15 19.128v-.003c0-1.113-.285-2.16-.786-3.07M15 19.128v.106A12.318 12.318 0 018.624
21c-2.331 0-4.512-.645-6.374-1.766l-.001-.109a6.375 6.375 0 0111.964-3.07M12 6.375a3.375 3.375 0
11-6.75 0 3.375 3.375 0 016.75 0zm8.25 2.25a2.625 2.625 0 11-5.25 0 2.625 2.625 0 015.25 0z"
  />
</svg>
Team
</a>

<a
  href="#"
  class="text-gray-300 hover:bg-[#a31d2f] hover:text-white group flex items-center px-2 py-2
text-base font-medium rounded-md"
>
<!-- Heroicon name: outline/folder -->
<svg
  class="text-gray-400 group-hover:text-gray-300 mr-4 flex-shrink-0 h-6 w-6"
  xmlns="http://www.w3.org/2000/svg"
  fill="none"
  viewBox="0 0 24 24"
  stroke-width="1.5"
  stroke="currentColor"
  aria-hidden="true"
>
  <path
    stroke-linecap="round"
    stroke-linejoin="round"
    d="M2.25 12.75V12A2.25 2.25 0 014.5 9.75h15A2.25 2.25 0 0121.75 12v.75m-8.69-6.44l-
2.12-2.12a1.5 1.5 0 00-1.061-.44H4.5A2.25 2.25 0 002.25 6v12a2.25 2.25 0 002.25 2.25h15A2.25 2.25 0
0021.75 18V9a2.25 2.25 0 00-2.25-2.25h-5.379a1.5 1.5 0 01-1.06-.44z"

```



```

    />
  </svg>
  Projects
</a>

<a
  href="#"
  class="text-gray-300 hover:bg-gray-700 hover:text-white group flex items-center px-2 py-2
text-base font-medium rounded-md"
>
  <!-- Heroicon name: outline/categories -->
  <svg
    class="text-gray-400 group-hover:text-gray-300 mr-4 flex-shrink-0 h-6 w-6"
    xmlns="http://www.w3.org/2000/svg"
    fill="none"
    viewBox="0 0 24 24"
    stroke-width="1.5"
    stroke="currentColor"
    aria-hidden="true"
  >
    <path
      stroke-linecap="round"
      stroke-linejoin="round"
      d="M6.75 3v2.25M17.25 3v2.25M3 18.75V7.5a2.25 2.25 0 012.25-2.25h13.5A2.25 2.25 0
0121 7.5v11.25m-18 0A2.25 2.25 0 005.25 21h13.5A2.25 2.25 0 0021 18.75m-18 0v-7.5A2.25 2.25 0
015.25 9h13.5A2.25 2.25 0 0121 11.25v7.5"
    />
  </svg>
  Categories
</a>

<a
  href="#"
  class="text-gray-300 hover:bg-gray-700 hover:text-white group flex items-center px-2 py-2
text-base font-medium rounded-md"
>
  <!-- Heroicon name: outline/inbox -->
  <svg
    class="text-gray-400 group-hover:text-gray-300 mr-4 flex-shrink-0 h-6 w-6"
    xmlns="http://www.w3.org/2000/svg"
    fill="none"
    viewBox="0 0 24 24"
    stroke-width="1.5"
    stroke="currentColor"

```

```

        aria-hidden="true"
    >
    <path
        stroke-linecap="round"
        stroke-linejoin="round"
        d="M2.25 13.5h3.86a2.25 2.25 0 012.012 1.244l.256.512a2.25 2.25 0 002.013
1.244h3.218a2.25 2.25 0 002.013-1.244l.256-.512a2.25 2.25 0 012.013-1.244h3.859m-19.5338V18a2.25
2.25 0 002.25 2.25h15A2.25 2.25 0 0021.75 18v-4.162c0-.224-.034-.447-.1-.661L19.24 5.338a2.25 2.25
0 00-2.15-1.588H6.911a2.25 2.25 0 00-2.15 1.588L2.35 13.177a2.25 2.25 0 00-.1661z"
    />
</svg>
Documents
</a>

<a
    href="#"
    class="text-gray-300 hover:bg-gray-700 hover:text-white group flex items-center px-2 py-2
text-base font-medium rounded-md"
    >
    <!-- Heroicon name: outline/chart-bar -->
    <svg
        class="text-gray-400 group-hover:text-gray-300 mr-4 flex-shrink-0 h-6 w-6"
        xmlns="http://www.w3.org/2000/svg"
        fill="none"
        viewBox="0 0 24 24"
        stroke-width="1.5"
        stroke="currentColor"
        aria-hidden="true"
    >
    <path
        stroke-linecap="round"
        stroke-linejoin="round"
        d="M3 13.125C3 12.504 3.504 12 4.125 12h2.25c.621 0 1.125.504 1.125 1.125v6.75C7.5
20.496 6.996 21 6.375 21h-2.25A1.125 1.125 0 013 19.875v-6.75zM9.75 8.625c0-.621.504-1.125 1.125-
1.125h2.25c.621 0 1.125.504 1.125 1.125v11.25c0 .621-.504 1.125-1.125 1.125h-2.25a1.125 1.125 0 01-
1.125-1.125V8.625zM16.5 4.125c0-.621.504-1.125 1.125-1.125h2.25C20.496 3 21 3.504 21
4.125v15.75c0 .621-.504 1.125-1.125 1.125h-2.25a1.125 1.125 0 01-1.125-1.125V4.125z"
    />
    </svg>
    Reports
</a>
</nav>
</div>
</div>

```

```

<div class="w-14 flex-shrink-0" aria-hidden="true">
  <!-- Dummy element to force sidebar to shrink to fit close icon -->
</div>
</div>
</div>

<!-- Static sidebar for desktop -->
<div class="hidden md:fixed md:inset-y-0 md:flex md:w-64 md:flex-col">
  <!-- Sidebar component, swap this element with another sidebar if you like -->
  <div class="flex min-h-0 flex-1 flex-col bg-[#d32840]">
    <div class="flex h-16 flex-shrink-0 items-center bg-[#a31d2f] px-4">
      <a href="/" class="text-2xl font-bold text-[#fff7e9]">Expense Tracker</a>
    </div>
    <div class="flex flex-1 flex-col overflow-y-auto">
      <nav class="flex-1 space-y-1 px-2 py-4">
        <!-- Current: "bg-gray-900 text-white", Default: "text-gray-300 hover:bg-gray-700 hover:text-white" -->
        <a
          href="/dashboard"
          class="bg-[#a31d2f] text-[#fff7e9] group flex items-center px-2 py-2 text-sm font-medium rounded-md"
        >
          <!--
          Heroicon name: outline/home

          Current: "text-gray-300", Default: "text-gray-400 group-hover:text-gray-300"
        -->
        <svg
          class="text-gray-300 mr-3 flex-shrink-0 h-6 w-6"
          xmlns="http://www.w3.org/2000/svg"
          fill="none"
          viewBox="0 0 24 24"
          stroke-width="1.5"
          stroke="currentColor"
          aria-hidden="true"
        >
          <path
            stroke-linecap="round"
            stroke-linejoin="round"
            d="M2.25 12l8.954-8.954c.44-.439 1.152-.439 1.591 0L21.75 12M4.5 9.75v10.125c0 .621.504 1.125 1.125 1.125H9.75v-4.875c0-.621-.504-1.125-1.125-1.125h2.25c.621 0 1.125.504 1.125 1.125V9.75c0-.621-.504-1.125-1.125-1.125h2.25c.621 0 1.125.504 1.125 1.125V9.75M8.25 21h8.25"
          />

```

```

</svg>
Dashboard
</a>

<a
  href="/addingExpenses"
  class="text-[#fff7e9] hover:bg-[#a31d2f] hover:text-white group flex items-center px-2 py-2
text-sm font-medium rounded-md"
>
  <!-- Heroicon name: outline/users -->
  <svg
    class="text-[#fff7e9] group-hover:text-gray-300 mr-3 flex-shrink-0 h-6 w-6"
    xmlns="http://www.w3.org/2000/svg"
    fill="none"
    viewBox="0 0 24 24"
    stroke-width="1.5"
    stroke="currentColor"
    aria-hidden="true"
  >
    <path
      stroke-linecap="round"
      stroke-linejoin="round"
      d="M15 19.128a9.38 9.38 0 002.625 3.72 9.337 9.337 0 004.121-.952 4.125 4.125 0 00-
7.533-2.493M15 19.128v-.003c0-1.113-.285-2.16-.786-3.07M15 19.128v.106A12.318 12.318 0 018.624
21c-2.331 0-4.512-.645-6.374-1.766l-.001-.109a6.375 6.375 0 0111.964-3.07M12 6.375a3.375 3.375 0
11-6.75 0 3.375 3.375 0 016.75 0zm8.25 2.25a2.625 2.625 0 11-5.25 0 2.625 2.625 0 015.25 0z"
    />
  </svg>
  Adding Expenses
</a>

<a
  href="/categories"
  class="text-[#fff7e9] hover:bg-[#a31d2f] hover:text-white group flex items-center px-2 py-2
text-sm font-medium rounded-md"
>
  <!-- Heroicon name: outline/folder -->
  <svg
    class="text-[#fff7e9] group-hover:text-gray-300 mr-3 flex-shrink-0 h-6 w-6"
    xmlns="http://www.w3.org/2000/svg"
    fill="none"
    viewBox="0 0 24 24"
    stroke-width="1.5"
    stroke="currentColor"

```

```
aria-hidden="true"
>
<path
stroke-linecap="round"
stroke-linejoin="round"
d="M2.25 12.75V12A2.25 2.25 0 014.5 9.75h15A2.25 2.25 0 0121.75 12v.75m-8.69-6.44l-
2.12-2.12a1.5 1.5 0 00-1.061-.44H4.5A2.25 2.25 0 002.25 6v12a2.25 2.25 0 002.25 2.25h15A2.25 2.25 0
0021.75 18V9a2.25 2.25 0 00-2.25-2.25h-5.379a1.5 1.5 0 01-1.06-.44z"
/>
</svg>
Categories
</a>
```

```
<a
href="/reports"
class="text-[#fff7e9] hover:bg-[#a31d2f] hover:text-white group flex items-center px-2 py-2
text-sm font-medium rounded-md"
>
```

```
<!-- Heroicon name: outline/categories -->
<svg
class="text-[#fff7e9] group-hover:text-gray-300 mr-3 flex-shrink-0 h-6 w-6"
xmlns="http://www.w3.org/2000/svg"
fill="none"
viewBox="0 0 24 24"
stroke-width="1.5"
stroke="currentColor"
aria-hidden="true"
>
<path
stroke-linecap="round"
stroke-linejoin="round"
d="M6.75 3v2.25M17.25 3v2.25M3 18.75V7.5a2.25 2.25 0 012.25-2.25h13.5A2.25 2.25 0
0121 7.5v11.25m-18 0A2.25 2.25 0 005.25 21h13.5A2.25 2.25 0 0021 18.75m-18 0v-7.5A2.25 2.25 0
015.25 9h13.5A2.25 2.25 0 0121 11.25v7.5"
/>
</svg>
Reports
</svg>
```

```
<a
href="/tips"
class="text-[#fff7e9] hover:bg-[#a31d2f] hover:text-white group flex items-center px-2 py-2
text-sm font-medium rounded-md"
>
```

```
<!-- Heroicon name: outline/inbox -->
<svg
  class="text-[#fff7e9] group-hover:text-gray-300 mr-3 flex-shrink-0 h-6 w-6"
  xmlns="http://www.w3.org/2000/svg"
  fill="none"
  viewBox="0 0 24 24"
  stroke-width="1.5"
  stroke="currentColor"
  aria-hidden="true"
>
  <path
    stroke-linecap="round"
    stroke-linejoin="round"
    d="M2.25 13.5h3.86a2.25 2.25 0 012.012 1.244l.256.512a2.25 2.25 0 002.013
1.244h3.218a2.25 2.25 0 002.013-1.244l.256-.512a2.25 2.25 0 012.013-1.244h3.859m-19.5 3.38V18a2.25
2.25 0 002.25 2.25h15A2.25 2.25 0 0021.75 18v-4.162c0-.224-.034-.447-.1-.661L19.24 5.338a2.25 2.25
0 00-2.15-1.588H6.911a2.25 2.25 0 00-2.15 1.588L2.35 13.177a2.25 2.25 0 00-.1.661z"
  />
</svg>
Tips
</a>
```

```
<a
  href="/help&support"
  class="text-[#fff7e9] hover:bg-[#a31d2f] hover:text-white group flex items-center px-2 py-2
text-sm font-medium rounded-md"
>
  <!-- Heroicon name: outline/chart-bar -->
  <svg
    class="text-[#fff7e9] group-hover:text-gray-300 mr-3 flex-shrink-0 h-6 w-6"
    xmlns="http://www.w3.org/2000/svg"
    fill="none"
    viewBox="0 0 24 24"
    stroke-width="1.5"
    stroke="currentColor"
    aria-hidden="true"
  >
    <path
      stroke-linecap="round"
      stroke-linejoin="round"
      d="M3 13.125C3 12.504 3.504 12 4.125 12h2.25c.621 0 1.125.504 1.125 1.125v6.75C7.5
20.496 6.996 21 6.375 21h-2.25A1.125 1.125 0 013 19.875v-6.75zM9.75 8.625c0-.621.504-1.125 1.125-
1.125h2.25c.621 0 1.125.504 1.125 1.125v11.25c0 .621-.504 1.125-1.125 1.125h-2.25a1.125 1.125 0 01-
```

```
1.125-1.125V8.625zM16.5 4.125c0-.621.504-1.125 1.125-1.125h2.25C20.496 3 21 3.504 21
4.125v15.75c0 .621-.504 1.125-1.125 1.125h-2.25a1.125 1.125 0 01-1.125-1.125V4.125z"
    />
</svg>
    Help & Support
</a>
<a
    href="/settings"
    class="text-[#fff7e9] hover:bg-[#a31d2f] hover:text-white group flex items-center px-2 py-2
text-sm font-medium rounded-md"
    >
    <!-- Heroicon name: outline/chart-bar -->
    <svg
        class="text-[#fff7e9] group-hover:text-gray-300 mr-3 flex-shrink-0 h-6 w-6"
        xmlns="http://www.w3.org/2000/svg"
        fill="none"
        viewBox="0 0 24 24"
        stroke-width="1.5"
        stroke="currentColor"
        aria-hidden="true"
    >
        <path
            stroke-linecap="round"
            stroke-linejoin="round"
            d="M3 13.125C3 12.504 3.504 12 4.125 12h2.25c.621 0 1.125.504 1.125 1.125v6.75C7.5
20.496 6.996 21 6.375 21h-2.25A1.125 1.125 0 013 19.875v-6.75zM9.75 8.625c0-.621.504-1.125 1.125-
1.125h2.25c.621 0 1.125.504 1.125 1.125v11.25c0 .621-.504 1.125-1.125 1.125h-2.25a1.125 1.125 0 01-
1.125-1.125V8.625zM16.5 4.125c0-.621.504-1.125 1.125-1.125h2.25C20.496 3 21 3.504 21
4.125v15.75c0 .621-.504 1.125-1.125 1.125h-2.25a1.125 1.125 0 01-1.125-1.125V4.125z"
        />
    </svg>
    Settings
</a>
</nav>
</div>
</div>
</div>
<div class="flex flex-col md:pl-64">
    <div class="sticky top-0 z-10 flex h-16 flex-shrink-0 bg-[#fff7e9] shadow">
        <button
            type="button"
            class="border-r border-gray-200 px-4 text-gray-500 focus:outline-none focus:ring-2 focus:ring-
inset focus:ring-indigo-500 md:hidden"
        >
```

```

<span class="sr-only">Open sidebar</span>
<!-- Heroicon name: outline/bars-3-bottom-left -->
<svg
  class="h-6 w-6"
  xmlns="http://www.w3.org/2000/svg"
  fill="none"
  viewBox="0 0 24 24"
  stroke-width="1.5"
  stroke="currentColor"
  aria-hidden="true"
>
  <path
    stroke-linecap="round"
    stroke-linejoin="round"
    d="M3.75 6.75h16.5M3.75 12h16.5m-16.5 5.25H12"
  />
</svg>
</button>
<div class="flex flex-1 justify-between px-4">
  <div class="flex flex-1">
    <form class="flex w-full md:ml-0" action="#" method="GET">
      <label for="search-field" class="sr-only">Search</label>
      <div
        class="relative w-full text-gray-400 focus-within:text-gray-600"
      >
        <div
          class="pointer-events-none absolute inset-y-0 left-0 flex items-center"
        >
          <!-- Heroicon name: mini/magnifying-glass -->
          <svg
            class="h-5 w-5 text-[#d32840]"
            xmlns="http://www.w3.org/2000/svg"
            viewBox="0 0 20 20"
            fill="currentColor"
            aria-hidden="true"
          >
            <path
              fill-rule="evenodd"
              d="M9 3.5a5.5 5.5 0 100 100 11 5.5 5.5 0 000-11zM2 9a7 7 0 112.452 4.391H3.328A7.75 7.75 0 111.06 1.06L3.328 7.75A7 7 0 012 9z"
              clip-rule="evenodd"
            />
          </svg>
        </div>
      </div>
    </form>
  </div>

```



```

        <input
          id="search-field"
          class="block h-full w-full border-transparent py-2 pl-8 pr-3 text-gray-900 placeholder-
[#d32840] bg-[#fff7e9] focus:border-transparent focus:placeholder-gray-400 focus:outline-none
focus:ring-0 sm:text-sm"
          placeholder="Search"
          type="search"
          name="search"
        />
      </div>
    </form>
  </div>
  <div class="ml-4 flex items-center md:ml-6">
    <button
      type="button"
      class="rounded-full bg-[#fff7e9] p-1 text-gray-400 hover:text-gray-500 focus:outline-none
focus:ring-2 focus:ring-indigo-500 focus:ring-offset-2"
    >
      <span class="sr-only">View notifications</span>
      <!-- Heroicon name: outline/bell -->
      <svg
        class="h-6 w-6 text-[#d32840]"
        xmlns="http://www.w3.org/2000/svg"
        fill="none"
        viewBox="0 0 24 24"
        stroke-width="1.5"
        stroke="currentColor"
        aria-hidden="true"
      >
        <path
          stroke-linecap="round"
          stroke-linejoin="round"
          d="M14.857 17.082a23.848 23.848 0 005.454-1.31A8.967 8.967 0 0118 9.75v-.7V9A6 6 0
006 9v.75a8.967 8.967 0 01-2.312 6.022c1.733.64 3.56 1.085 5.455 1.31m5.714 0a24.255 24.255 0 01-
5.714 0m5.714 0a3 3 0 11-5.714 0"
        />
      </svg>
    </button>

    <!-- Profile dropdown -->
    <div class="relative ml-3">
      <div>
        <button
          type="button"

```

```

        class="flex max-w-xs items-center rounded-full bg-white text-sm focus:outline-none
focus:ring-2 focus:ring-indigo-500 focus:ring-offset-2"
        id="user-menu-button"
        aria-expanded="false"
        aria-haspopup="true"
    >
    <span class="sr-only">Open user menu</span>
    
</button>
</div>

```

<!--

Dropdown menu, show/hide based on menu state.

Entering: "transition ease-out duration-100"

From: "transform opacity-0 scale-95"

To: "transform opacity-100 scale-100"

Leaving: "transition ease-in duration-75"

From: "transform opacity-100 scale-100"

To: "transform opacity-0 scale-95"

-->

<!-- Active: "bg-gray-100", Not Active: "" -->

<!-- <div

```

        class="absolute right-0 z-10 mt-2 w-48 origin-top-right rounded-md bg-white py-1 shadow-lg
ring-1 ring-black ring-opacity-5 focus:outline-none"

```

```

        role="menu"

```

```

        aria-orientation="vertical"

```

```

        aria-labelledby="user-menu-button"

```

```

        tabindex="-1"
    >

```

```

    <a

```

```

        href="#"

```

```

        class="block px-4 py-2 text-sm text-gray-700"

```

```

        role="menuitem"

```

```

        tabindex="-1"

```

```

        id="user-menu-item-0"

```

```

    >Your Profile</a>

```

```

    >

```

```

        <a
          href="#"
          class="block px-4 py-2 text-sm text-gray-700"
          role="menuitem"
          tabindex="-1"
          id="user-menu-item-1"
        >Settings</a>
      >

      <a
        href="#"
        class="block px-4 py-2 text-sm text-gray-700"
        role="menuitem"
        tabindex="-1"
        id="user-menu-item-2"
      >Sign out</a>
    >
  </div> -->
</div>
</div>
</div>
</div>
</div>

</div>
</div>
</body>
</html>

```

Dashboard.html:

```

<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />

    <link
      rel="stylesheet"
      href="{ { url_for('static',filename='css/skeleton.css') } }"
    />
    <script src="https://cdn.tailwindcss.com"></script>
  </head>

```

```

<body class="bg-[#fff7e9]">
  <div>
    <div class="relative z-40 md:hidden" role="dialog" aria-modal="true">

      <div class="fixed inset-0 bg-[#d32840] bg-opacity-75"></div>

      <div class="fixed inset-0 z-40 flex">
>
        <div
          class="relative flex w-full max-w-xs flex-1 flex-col bg-gray-800 pt-5 pb-4"
        >

          <div class="absolute top-0 right-0 -mr-12 pt-2">
            <button
              type="button"
              class="ml-1 flex h-10 w-10 items-center justify-center rounded-full focus:outline-none
focus:ring-2 focus:ring-inset focus:ring-white"
            >
              <span class="sr-only">Close sidebar</span>

              <svg
                class="h-6 w-6 text-white"
                xmlns="http://www.w3.org/2000/svg"
                fill="none"
                viewBox="0 0 24 24"
                stroke-width="1.5"
                stroke="currentColor"
                aria-hidden="true"
              >
                <path
                  stroke-linecap="round"
                  stroke-linejoin="round"
                  d="M6 18L18 6M6 6l12 12"
                />
              </svg>
            </button>
          </div>

          <div class="flex flex-shrink-0 items-center px-4">

            </div>
            <div class="mt-5 h-0 flex-1 overflow-y-auto">
              <nav class="space-y-1 px-2 ">

```

```
<a
  href="/dashboard"
  class="bg-gray-900 text-white group flex items-center px-2 py-2 text-base font-medium
rounded-md"
>
  <!-- Heroicon name: outline/home -->
  <svg
    class="text-gray-300 mr-4 flex-shrink-0 h-6 w-6"
    xmlns="http://www.w3.org/2000/svg"
    fill="none"
    viewBox="0 0 24 24"
    stroke-width="1.5"
    stroke="currentColor"
    aria-hidden="true"
  >
    <path
      stroke-linecap="round"
      stroke-linejoin="round"
      d="M2.25 12l8.954-8.955c.44-.439 1.152-.439 1.591 0L21.75 12M4.5 9.75v10.125c0
.621.504 1.125 1.125 1.125H9.75v-4.875c0-.621-.504-1.125-1.125-1.125h2.25c.621 0 1.125.504 1.125
1.125V21h4.125c.621 0 1.125-.504 1.125-1.125V9.75M8.25 21h8.25"
    />
  </svg>
  Dashboard
</a>
```

```
<a
  href="#"
  class="text-gray-300 hover:bg-[#a31d2f] hover:text-white group flex items-center px-2 py-2
text-base font-medium rounded-md"
>
  <!-- Heroicon name: outline/users -->
  <svg
    class="text-gray-400 group-hover:text-gray-300 mr-4 flex-shrink-0 h-6 w-6"
    xmlns="http://www.w3.org/2000/svg"
    fill="none"
    viewBox="0 0 24 24"
    stroke-width="1.5"
    stroke="currentColor"
    aria-hidden="true"
  >
    <path
      stroke-linecap="round"
      stroke-linejoin="round"
```

```
d="M15 19.128a9.38 9.38 0 002.625.372 9.337 9.337 0 004.121-.952 4.125 4.125 0 00-7.533-2.493M15 19.128v-.003c0-1.113-.285-2.16-.786-3.07M15 19.128v.106A12.318 12.318 0 018.624 21c-2.331 0-4.512-.645-6.374-1.766l-.001-.109a6.375 6.375 0 0111.964-3.07M12 6.375a3.375 3.375 0 11-6.75 0 3.375 3.375 0 016.75 0zm8.25 2.25a2.625 2.625 0 11-5.25 0 2.625 2.625 0 015.25 0z"
```

```
/>  
</svg>  
Team  
</a>
```

```
<a  
  href="#"  
  class="text-gray-300 hover:bg-[#a31d2f] hover:text-white group flex items-center px-2 py-2  
text-base font-medium rounded-md"
```

```
>  
<!-- Heroicon name: outline/folder -->  
<svg  
  class="text-gray-400 group-hover:text-gray-300 mr-4 flex-shrink-0 h-6 w-6"  
  xmlns="http://www.w3.org/2000/svg"  
  fill="none"  
  viewBox="0 0 24 24"  
  stroke-width="1.5"  
  stroke="currentColor"  
  aria-hidden="true"  
>  
  <path  
    stroke-linecap="round"  
    stroke-linejoin="round"  
    d="M2.25 12.75V12A2.25 2.25 0 014.5 9.75h15A2.25 2.25 0 0121.75 12v.75m-8.69-6.44l-2.12-2.12a1.5 1.5 0 00-1.061-.44H4.5A2.25 2.25 0 002.25 6v12a2.25 2.25 0 002.25 2.25h15A2.25 2.25 0 0021.75 18V9a2.25 2.25 0 00-2.25-2.25h-5.379a1.5 1.5 0 01-1.06-.44z"</path>  
</svg>  
Projects
```

```
</a>  
  
<a  
  href="#"  
  class="text-gray-300 hover:bg-gray-700 hover:text-white group flex items-center px-2 py-2  
text-base font-medium rounded-md"
```

```
>  
<!-- Heroicon name: outline/categories -->  
<svg  
  class="text-gray-400 group-hover:text-gray-300 mr-4 flex-shrink-0 h-6 w-6"  
  xmlns="http://www.w3.org/2000/svg"
```

```

fill="none"
viewBox="0 0 24 24"
stroke-width="1.5"
stroke="currentColor"
aria-hidden="true"
>
<path
stroke-linecap="round"
stroke-linejoin="round"
d="M6.75 3v2.25M17.25 3v2.25M3 18.75V7.5a2.25 2.25 0 012.25-2.25h13.5A2.25 2.25 0
0121 7.5v11.25m-18 0A2.25 2.25 0 005.25 21h13.5A2.25 2.25 0 0021 18.75m-18 0v-7.5A2.25 2.25 0
015.25 9h13.5A2.25 2.25 0 0121 11.25v7.5"
/>
</svg>
Categories
</a>

<a
href="#"
class="text-gray-300 hover:bg-gray-700 hover:text-white group flex items-center px-2 py-2
text-base font-medium rounded-md"
>
<!-- Heroicon name: outline/inbox -->
<svg
class="text-gray-400 group-hover:text-gray-300 mr-4 flex-shrink-0 h-6 w-6"
xmlns="http://www.w3.org/2000/svg"
fill="none"
viewBox="0 0 24 24"
stroke-width="1.5"
stroke="currentColor"
aria-hidden="true"
>
<path
stroke-linecap="round"
stroke-linejoin="round"
d="M2.25 13.5h3.86a2.25 2.25 0 012.012 1.244l.256.512a2.25 2.25 0 002.013
1.244h3.218a2.25 2.25 0 002.013-1.244l.256-.512a2.25 2.25 0 012.013-1.244h3.859m-19.5.338V18a2.25
2.25 0 002.25 2.25h15A2.25 2.25 0 0021.75 18v-4.162c0-.224-.034-.447-.1-.661L19.24 5.338a2.25 2.25
0 00-2.15-1.588H6.911a2.25 2.25 0 00-2.15 1.588L2.35 13.177a2.25 2.25 0 00-.1661z"
/>
</svg>
Documents
</a>

```

```

<a
  href="#"
  class="text-gray-300 hover:bg-gray-700 hover:text-white group flex items-center px-2 py-2
text-base font-medium rounded-md"
>
  <!-- Heroicon name: outline/chart-bar -->
  <svg
    class="text-gray-400 group-hover:text-gray-300 mr-4 flex-shrink-0 h-6 w-6"
    xmlns="http://www.w3.org/2000/svg"
    fill="none"
    viewBox="0 0 24 24"
    stroke-width="1.5"
    stroke="currentColor"
    aria-hidden="true"
  >
    <path
      stroke-linecap="round"
      stroke-linejoin="round"
      d="M3 13.125C3 12.504 3.504 12 4.125 12h2.25c.621 0 1.125.504 1.125 1.125v6.75C7.5
20.496 6.996 21 6.375 21h-2.25A1.125 1.125 0 0 1 19.875 6.75zM9.75 8.625c0-.621.504-1.125 1.125-
1.125h2.25c.621 0 1.125.504 1.125 1.125v11.25c0 .621-.504 1.125-1.125 1.125h-2.25a1.125 1.125 0 0 1-
1.125-1.125V8.625zM16.5 4.125c0-.621.504-1.125 1.125-1.125h2.25C20.496 3 21 3.504 21
4.125v15.75c0 .621-.504 1.125-1.125 1.125h-2.25a1.125 1.125 0 0 1-1.125-1.125V4.125z"
    />
  </svg>
  Reports
</a>
</nav>
</div>
</div>

<div class="w-14 flex-shrink-0" aria-hidden="true">
  <!-- Dummy element to force sidebar to shrink to fit close icon -->
</div>
</div>
</div>

<!-- Static sidebar for desktop -->
<div class="hidden md:fixed md:inset-y-0 md:flex md:w-64 md:flex-col">
  <!-- Sidebar component, swap this element with another sidebar if you like -->
  <div class="flex min-h-0 flex-1 flex-col bg-[#d32840]">
    <div class="flex h-16 flex-shrink-0 items-center bg-[#a31d2f] px-4">
      <a href="/" class="text-2xl font-bold text-[#fff7e9]">Expense Tracker</a>
    </div>

```



```

<div class="flex flex-1 flex-col overflow-y-auto">
  <nav class="flex-1 space-y-1 px-2 py-4">
    <!-- Current: "bg-gray-900 text-white", Default: "text-gray-300 hover:bg-gray-700 hover:text-
white" -->
    <a
      href="/dashboard"
      class="bg-[#a31d2f] text-[#fff7e9] group flex items-center px-2 py-2 text-sm font-medium
rounded-md"
    >
      <!--
      Heroicon name: outline/home

      Current: "text-gray-300", Default: "text-gray-400 group-hover:text-gray-300"
-->
      <svg
        class="text-gray-300 mr-3 flex-shrink-0 h-6 w-6"
        xmlns="http://www.w3.org/2000/svg"
        fill="none"
        viewBox="0 0 24 24"
        stroke-width="1.5"
        stroke="currentColor"
        aria-hidden="true"
      >
        <path
          stroke-linecap="round"
          stroke-linejoin="round"
          d="M2.25 12l8.954-8.954c.44-.439 1.152-.439 1.591 0L21.75 12M4.5 9.75v10.125c0
.621.504 1.125 1.125 1.125H9.75v-4.875c0-.621.504-1.125 1.125-1.125h2.25c.621 0 1.125.504 1.125
1.125V21h4.125c.621 0 1.125-.504 1.125-1.125V9.75M8.25 21h8.25"
        />
      </svg>
      Dashboard
    </a>

    <a
      href="/addingExpenses"
      class="text-[#fff7e9] hover:bg-[#a31d2f] hover:text-white group flex items-center px-2 py-2
text-sm font-medium rounded-md"
    >
      <!-- Heroicon name: outline/users -->
      <svg
        class="text-[#fff7e9] group-hover:text-gray-300 mr-3 flex-shrink-0 h-6 w-6"
        xmlns="http://www.w3.org/2000/svg"
        fill="none"

```

```

viewBox="0 0 24 24"
stroke-width="1.5"
stroke="currentColor"
aria-hidden="true"
>
<path
stroke-linecap="round"
stroke-linejoin="round"
d="M15 19.128a9.38 9.38 0 002.625 3.72 9.337 9.337 0 004.121-.952 4.125 4.125 0 00-
7.533-2.493M15 19.128v-.003c0-1.113-.285-2.16-.786-3.07M15 19.128v.106A12.318 12.318 0 018.624
21c-2.331 0-4.512-.645-6.374-1.766l-.001-.109a6.375 6.375 0 0111.964-3.07M12 6.375a3.375 3.375 0
11-6.75 0 3.375 3.375 0 016.75 0zm8.25 2.25a2.625 2.625 0 11-5.25 0 2.625 2.625 0 015.25 0z"
/>
</svg>
Adding Expenses
</a>

```

```

<a
href="/categories"
class="text-[#fff7e9] hover:bg-[#a31d2f] hover:text-white group flex items-center px-2 py-2
text-sm font-medium rounded-md"
>
<!-- Heroicon name: outline/folder -->
<svg
class="text-[#fff7e9] group-hover:text-gray-300 mr-3 flex-shrink-0 h-6 w-6"
xmlns="http://www.w3.org/2000/svg"
fill="none"
viewBox="0 0 24 24"
stroke-width="1.5"
stroke="currentColor"
aria-hidden="true"
>
<path
stroke-linecap="round"
stroke-linejoin="round"
d="M2.25 12.75V12A2.25 2.25 0 014.5 9.75h15A2.25 2.25 0 0121.75 12v.75m-8.69-6.44l-
2.12-2.12a1.5 1.5 0 00-1.061-.44H4.5A2.25 2.25 0 002.25 6v12a2.25 2.25 0 002.25 2.25h15A2.25 2.25 0
0021.75 18V9a2.25 2.25 0 00-2.25-2.25h-5.379a1.5 1.5 0 01-1.06-.44z"
/>
</svg>
Categories
</a>

<a

```

```

href="/reports"
class="text-[#fff7e9] hover:bg-[#a31d2f] hover:text-white group flex items-center px-2 py-2
text-sm font-medium rounded-md"
>
<!-- Heroicon name: outline/categories -->
<svg
  class="text-[#fff7e9] group-hover:text-gray-300 mr-3 flex-shrink-0 h-6 w-6"
  xmlns="http://www.w3.org/2000/svg"
  fill="none"
  viewBox="0 0 24 24"
  stroke-width="1.5"
  stroke="currentColor"
  aria-hidden="true"
>
  <path
    stroke-linecap="round"
    stroke-linejoin="round"
    d="M6.75 3v2.25M17.25 3v2.25M3 18.75V7.5a2.25 2.25 0 012.25-2.25h13.5A2.25 2.25 0
0121 7.5v11.25m-18 0A2.25 2.25 0 005.25 21h13.5A2.25 2.25 0 0021 18.75m-18 0v-7.5A2.25 2.25 0
015.25 9h13.5A2.25 2.25 0 0121 11.25v7.5"
  />
</svg>
  Reports
</svg>

<a
  href="/tips"
  class="text-[#fff7e9] hover:bg-[#a31d2f] hover:text-white group flex items-center px-2 py-2
text-sm font-medium rounded-md"
>
<!-- Heroicon name: outline/inbox -->
<svg
  class="text-[#fff7e9] group-hover:text-gray-300 mr-3 flex-shrink-0 h-6 w-6"
  xmlns="http://www.w3.org/2000/svg"
  fill="none"
  viewBox="0 0 24 24"
  stroke-width="1.5"
  stroke="currentColor"
  aria-hidden="true"
>
  <path
    stroke-linecap="round"
    stroke-linejoin="round"

```

```
d="M2.25 13.5h3.86a2.25 2.25 0 012.012 1.244l.256.512a2.25 2.25 0 002.013
1.244h3.218a2.25 2.25 0 002.013-1.244l.256-.512a2.25 2.25 0 012.013-1.244h3.859m-19.5338V18a2.25
2.25 0 002.25 2.25h15A2.25 2.25 0 0021.75 18v-4.162c0-.224-.034-.447-.1-.661L19.24 5.338a2.25 2.25
0 00-2.15-1.588H6.911a2.25 2.25 0 00-2.15 1.588L2.35 13.177a2.25 2.25 0 00-.1661z"
```

```
/>
```

```
</svg>
```

Tips

```
</a>
```

```
<a
```

```
href="/help&support"
```

```
class="text-[#fff7e9] hover:bg-[#a31d2f] hover:text-white group flex items-center px-2 py-2
text-sm font-medium rounded-md"
```

```
>
```

```
<!-- Heroicon name: outline/chart-bar -->
```

```
<svg
```

```
class="text-[#fff7e9] group-hover:text-gray-300 mr-3 flex-shrink-0 h-6 w-6"
```

```
xmlns="http://www.w3.org/2000/svg"
```

```
fill="none"
```

```
viewBox="0 0 24 24"
```

```
stroke-width="1.5"
```

```
stroke="currentColor"
```

```
aria-hidden="true"
```

```
>
```

```
<path
```

```
stroke-linecap="round"
```

```
stroke-linejoin="round"
```

```
d="M3 13.125C3 12.504 3.504 12 4.125 12h2.25c.621 0 1.125.504 1.125 1.125v6.75C7.5
20.496 6.996 21 6.375 21h-2.25A1.125 1.125 0 013 19.875v-6.75zM9.75 8.625c0-.621.504-1.125 1.125-
1.125h2.25c.621 0 1.125.504 1.125 1.125v11.25c0 .621-.504 1.125-1.125 1.125h-2.25a1.125 1.125 0 01-
1.125-1.125V8.625zM16.5 4.125c0-.621.504-1.125 1.125-1.125h2.25C20.496 3 21 3.504 21
4.125v15.75c0 .621-.504 1.125-1.125 1.125h-2.25a1.125 1.125 0 01-1.125-1.125V4.125z"
```

```
/>
```

```
</svg>
```

Help & Support

```
</a>
```

```
<a
```

```
href="/settings"
```

```
class="text-[#fff7e9] hover:bg-[#a31d2f] hover:text-white group flex items-center px-2 py-2
text-sm font-medium rounded-md"
```

```
>
```

```
<!-- Heroicon name: outline/chart-bar -->
```

```
<svg
```

```
class="text-[#fff7e9] group-hover:text-gray-300 mr-3 flex-shrink-0 h-6 w-6"
```

```

        xmlns="http://www.w3.org/2000/svg"
        fill="none"
        viewBox="0 0 24 24"
        stroke-width="1.5"
        stroke="currentColor"
        aria-hidden="true"
      >
        <path
          stroke-linecap="round"
          stroke-linejoin="round"
          d="M3 13.125C3 12.504 3.504 12 4.125 12h2.25c.621 0 1.125.504 1.125 1.125v6.75C7.5
20.496 6.996 21 6.375 21h-2.25A1.125 1.125 0 0 1 19.875v-6.75zM9.75 8.625c0-.621.504-1.125 1.125-
1.125h2.25c.621 0 1.125.504 1.125 1.125v11.25c0 .621-.504 1.125-1.125 1.125h-2.25a1.125 1.125 0 0 1-
1.125-1.125V8.625zM16.5 4.125c0-.621.504-1.125 1.125-1.125h2.25C20.496 3 21 3.504 21
4.125v15.75c0 .621-.504 1.125-1.125 1.125h-2.25a1.125 1.125 0 0 1-1.125-1.125V4.125z"
        />
      </svg>
    Settings
  </a>
</nav>
</div>
</div>
</div>
<div class="flex flex-col md:pl-64">
  <div class="sticky top-0 z-10 flex h-16 flex-shrink-0 bg-[#fff7e9] shadow">
    <button
      type="button"
      class="border-r border-gray-200 px-4 text-gray-500 focus:outline-none focus:ring-2 focus:ring-
inset focus:ring-indigo-500 md:hidden"
    >
      <span class="sr-only">Open sidebar</span>
      <!-- Heroicon name: outline/bars-3-bottom-left -->
      <svg
        class="h-6 w-6"
        xmlns="http://www.w3.org/2000/svg"
        fill="none"
        viewBox="0 0 24 24"
        stroke-width="1.5"
        stroke="currentColor"
        aria-hidden="true"
      >
        <path
          stroke-linecap="round"
          stroke-linejoin="round"

```

```

d="M3.75 6.75h16.5M3.75 12h16.5m-16.5 5.25H12"
/>
</svg>
</button>
<div class="flex flex-1 justify-between px-4">
  <div class="flex flex-1">
    <form class="flex w-full md:ml-0" action="#" method="GET">
      <label for="search-field" class="sr-only">Search</label>
      <div
        class="relative w-full text-gray-400 focus-within:text-gray-600"
      >
        <div
          class="pointer-events-none absolute inset-y-0 left-0 flex items-center"
        >
          <!-- Heroicon name: mini/magnifying-glass -->
          <svg
            class="h-5 w-5 text-[#d32840]"
            xmlns="http://www.w3.org/2000/svg"
            viewBox="0 0 20 20"
            fill="currentColor"
            aria-hidden="true"
          >
            <path
              fill-rule="evenodd"
              d="M9 3.5a5.5 5.5 0 100 11 5.5 5.5 0 00-11zM2 9a7 7 0 112.452 4.391l3.328 3.328a.75.75 0 11-1.06 1.06l-3.329-3.328A7 7 0 012 9z"
              clip-rule="evenodd"
            />
          </svg>
        </div>
        <input
          id="search-field"
          class="block h-full w-full border-transparent py-2 pl-8 pr-3 text-gray-900 placeholder-[#d32840] bg-[#fff7e9] focus:border-transparent focus:placeholder-gray-400 focus:outline-none focus:ring-0 sm:text-sm"
          placeholder="Search"
          type="search"
          name="search"
        />
      </div>
    </form>
  </div>
  <div class="ml-4 flex items-center md:ml-6">
    <button

```

```

        type="button"
        class="rounded-full bg-[#fff7e9] p-1 text-gray-400 hover:text-gray-500 focus:outline-none
focus:ring-2 focus:ring-indigo-500 focus:ring-offset-2"
    >
    <span class="sr-only">View notifications</span>
    <!-- Heroicon name: outline/bell -->
    <svg
        class="h-6 w-6 text-[#d32840]"
        xmlns="http://www.w3.org/2000/svg"
        fill="none"
        viewBox="0 0 24 24"
        stroke-width="1.5"
        stroke="currentColor"
        aria-hidden="true"
    >
        <path
            stroke-linecap="round"
            stroke-linejoin="round"
            d="M14.857 17.082a23.848 23.848 0 005.454-1.31A8.967 8.967 0 0118 9.75v-.7V9A6 6 0
006 9v.75a8.967 8.967 0 01-2.312 6.022c1.733.64 3.56 1.085 5.455 1.31m5.714 0a24.255 24.255 0 01-
5.714 0m5.714 0a3 3 0 11-5.714 0"
        />
    </svg>
</button>

<!-- Profile dropdown -->
<div class="relative ml-3">
    <div>
        <button
            type="button"
            class="flex max-w-xs items-center rounded-full bg-white text-sm focus:outline-none
focus:ring-2 focus:ring-indigo-500 focus:ring-offset-2"
            id="user-menu-button"
            aria-expanded="false"
            aria-haspopup="true"
        >
        <span class="sr-only">Open user menu</span>
        
        </button>
    </div>

```

<!--

Dropdown menu, show/hide based on menu state.

Entering: "transition ease-out duration-100"

From: "transform opacity-0 scale-95"

To: "transform opacity-100 scale-100"

Leaving: "transition ease-in duration-75"

From: "transform opacity-100 scale-100"

To: "transform opacity-0 scale-95"

-->

<!-- Active: "bg-gray-100", Not Active: "" -->

<!-- <div

class="absolute right-0 z-10 mt-2 w-48 origin-top-right rounded-md bg-white py-1 shadow-lg  
ring-1 ring-black ring-opacity-5 focus:outline-none"

role="menu"

aria-orientation="vertical"

aria-labelledby="user-menu-button"

tabindex="-1"

>

<a

href="#"

class="block px-4 py-2 text-sm text-gray-700"

role="menuitem"

tabindex="-1"

id="user-menu-item-0"

>Your Profile</a

>

<a

href="#"

class="block px-4 py-2 text-sm text-gray-700"

role="menuitem"

tabindex="-1"

id="user-menu-item-1"

>Settings</a

>

<a

href="#"

class="block px-4 py-2 text-sm text-gray-700"

role="menuitem"

tabindex="-1"



```

        id="user-menu-item-2"
        >Sign out</a>
    >
</div> -->
</div>
</div>
</div>
</div>

```

```

</div>
</div>
</body>
</html>
Landingpage.html:
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8" />
<meta http-equiv="X-UA-Compatible" content="IE=edge" />
<meta name="viewport" content="width=device-width, initial-scale=1.0" />
<link
rel="stylesheet"
href="{ { url_for('static',filename='css/landingPage.css') } }"
/>
<title>Expense Tracker Landing Page</title>
</head>
<body>
{% include 'Navbar.html' %}
<div class="contents">
<div class="leftContents">
<p class="message1">The Expense Tracker for your needs</p>
<p class="message2">Track all your expenses here...</p>
<div>
<a href="/dashboard" class="getStartedButton">Get Started -></a>
</div>
</div>
<div class="rightContents">

  </div>
</div>
</body>
</html>

```

## FEATURE 2:

## SPRINT 3:

### PYTHON CODE FOR SPRINT 3:

#### BASE CODE:

##### Contact.html:

```

<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <link
      rel="stylesheet"
      href="{ {url_for('static',filename='contactUs.css') }}"
    />
    <title>Contact Us</title>
  </head>
  <body>
    {% include 'Navbar.html' %}
    <h1>Contact Us Page</h1>
    <script>
      window.watsonAssistantChatOptions = {
        integrationID: "65e6917c-135a-4648-9eef-f0b647fdac98", // The ID of this integration.
        region: "jp-tok", // The region your integration is hosted in.
        serviceInstanceID: "6031e5ab-decf-4990-ad01-54cf7a987e0e", // The ID of your service instance.
        onLoad: function(instance) { instance.render(); }
      };
      setTimeout(function(){
        const t=document.createElement('script');
        t.src="https://web-chat.global.assistant.watson.appdomain.cloud/versions/" +
(window.watsonAssistantChatOptions.clientVersion || 'latest') + "/WatsonAssistantChatEntry.js";
        document.head.appendChild(t);
      });
    </script>
  </body>

```

</html>

Addingexpenses.html:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<title>Expense Manager</title>

<!-- Icon Bar link-->

<link rel = "icon" href = "image/wallet2.svg" type = "image/x-icon">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css"

integrity="sha384-

Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJISAwIGgFAW/dAiS6JXm"

crossorigin="anonymous">

<link

rel="stylesheet"

href="{ {url\_for('static',filename='style.css')} }"

/>

<link href="https://fonts.googleapis.com/css2?family=Open+Sans:wght@400;700&display=swap"

rel="stylesheet">

<link href="https://cdnjs.cloudflare.com/ajax/libs/Chart.js/2.9.3/Chart.css" rel="stylesheet">

<script src="https://code.jquery.com/jquery-3.2.1.slim.min.js"

integrity="sha384-

KJ3o2DKtIkVYIK3UENzM7KCKRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"

crossorigin="anonymous"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js"

integrity="sha384-

ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"

crossorigin="anonymous"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"

integrity="sha384-

JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmYI"

crossorigin="anonymous"></script>

<script src="https://cdnjs.cloudflare.com/ajax/libs/Chart.js/2.9.3/Chart.js"

crossorigin="anonymous"></script>

<!-- Bootstrap CSS -->

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta1/dist/css/bootstrap.min.css"

rel="stylesheet" integrity="sha384-

giJf6kkoqNQ00vy+HMDP7azOuL0xtbfIcaT9wjKHr8RbDVddVHYTfAAsrekwKmp1"

crossorigin="anonymous">

```

<!--          PDF          -->
<script src="html2pdf.bundle.min.js"></script>
<script>
  function generatePDF() {
    // Choose the element that our invoice is rendered in.
    const element = document.getElementById("invoice");
    // Choose the element and save the PDF for our user.
    html2pdf()
      .from(element)
      .save();
  }
</script>

</head>
<body>
  <!--          NAV BAR          -->
  <nav class="navbar navbar-expand-lg navbar-dark bg-primary">
    <div class="container-fluid">
      <a class="navbar-brand active" href="#">Adding Expenses</a>
      <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
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">
        <div><button type="button" class="btn btn-danger" onclick="generatePDF()">Generate
PDF</button></div>
      </div>
    </nav>

    <!--          GEnenerating PDF File          -->
    <div id="invoice">
      <!--          Container For Showing EXPENSE ANF Income          -->
      <div class="row">
        <div class="col-4 left-container">
          <div class="month-container">
            <div class="header fs-white">Your Budget</div>
            <div id="current-month" class="sub-text fs-white"></div>
            <div class="budget-container p-2 mt-4">
              <span id="month-budget" class="month-amount">₹ 0</span>
            </div>
          </div>
        </div>

```

```

<div class="chart-container">
  <canvas id="expense-chart"></canvas>
</div>
</div>
<div class="col-7 right-container">
  <div class="calc-container">
    <div class="header fs-dark-grey">Track Your Budget</div>
    <div class="dropdown open">
      <button class="btn btn-info dropdown-toggle"
        type="button" id="dropdownMenu3" data-toggle="dropdown"
        aria-haspopup="true" aria-expanded="false">
        Expense Type
      </button>
      <div class="dropdown-menu">
        <a class="dropdown-item" id="type-savings">Savings</a>
        <a class="dropdown-item" id="type-expense">Expense</a>
        <a class="dropdown-item" id="type-investment">Investment</a>
      </div>
    </div>
    <div class="mt-3 tracking-text text-capitalize sub-text bottom-border">Tracking Savings
    💰</div>

    <div class="row mt-4">
      <div class="col-7">
        <input class="form-control input-expense-description" type="text"
placeholder="Description">
      </div>
      <div class="col-4">
        <input class="form-control input-expense-value" type="number" placeholder="Value">
      </div>
      <div class="col-1">
        <button type="button" class="btn btn-success btn-submit-expense">&check;</button>
      </div>
    </div>
    <div class="expense-list mt-4">

  </div>

</div>
</div>
</div>
<!-- Closing div for PDF -->
</div>

```

```
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta1/dist/js/bootstrap.bundle.min.js"
integrity="sha384-ygbV9kiqUc6oa4msXn9868pTtWMgiQaeYH7/t7LECLbyPA2x65Kgf80OJFdroafW"
crossorigin="anonymous"></script>
```

```
<script>
```

```
let ExpenseController = (() => {
  let total = 0, savings = 0, expenses = 0, investments = 0;
```

```
  return {
    inputEntry(userInput) {
      if (userInput['expenseType'] === 'savings') {
        savings += userInput['value'];
        total += userInput['value'];
      }
      if (userInput['expenseType'] === 'investment') {
        investments += userInput['value'];
        total -= userInput['value'];
      }
      if (userInput['expenseType'] === 'expense') {
        expenses += userInput['value'];
        total -= userInput['value'];
      }
    },
```

```
    getSavingsData() {
      return savings;
    },
```

```
    getExpensesData() {
      return expenses;
    },
```

```
    getInvestmentData() {
      return investments;
    },
```

```
    getTotalData() {
      return total;
    }
  }
```

```
})();
```

```
let UIController = (() => {
```

```

let expenseType = 'savings';

let HTMLStrings = {
  inExpenseDescription: 'input-expense-description',
  inExpenseValue: 'input-expense-value',
  btnSubmitExpense: 'btn-submit-expense',
  expenseList: 'expense-list',
  currentMonth: '#current-month',
  typeExpense: '#type-expense',
  typeSavings: '#type-savings',
  typeInvestment: '#type-investment',
  trackingText: 'tracking-text',
  expenseChart: '#expense-chart',
  monthBudget: '#month-budget'
};

return {
  numberFormat(number) {
    return Intl.NumberFormat('en-IN').format(number);
  },
  showCurrentMonth() {
    let now, month, year, months;

    now = new Date();
    month = now.getMonth();
    year = now.getFullYear();
    months = [
      'January', 'February', 'March', 'April', 'May', 'June', 'July', 'August', 'September', 'October',
      'November', 'December'
    ];
    document.querySelector(HTMLStrings.currentMonth).textContent = months[month] + " " + year;
  },

  getHTMLStrings() {
    return HTMLStrings;
  },

  setExpenseType(type) {
    console.log('here', type);
    this.expenseType = type;
    let emoji = "💰";
    if (type === 'savings') {
      emoji = "💵";
    }
  }
};

```

```

        if (document.querySelector(HTMLStrings.btnSubmitExpense).classList.contains('btn-
warning')) {
            document.querySelector(HTMLStrings.btnSubmitExpense).classList.remove('btn-warning');
        }
        if (document.querySelector(HTMLStrings.btnSubmitExpense).classList.contains('btn-danger'))
    {
        document.querySelector(HTMLStrings.btnSubmitExpense).classList.remove('btn-danger');
    }
    if (!document.querySelector(HTMLStrings.btnSubmitExpense).classList.contains('btn-
success')) {
        document.querySelector(HTMLStrings.btnSubmitExpense).classList.add('btn-success');
    }
    }

    if (type === 'expense') {
        emoji = "☐";
        if (document.querySelector(HTMLStrings.btnSubmitExpense).classList.contains('btn-
warning')) {
            document.querySelector(HTMLStrings.btnSubmitExpense).classList.remove('btn-warning');
        }
        if (document.querySelector(HTMLStrings.btnSubmitExpense).classList.contains('btn-success'))
    {
        document.querySelector(HTMLStrings.btnSubmitExpense).classList.remove('btn-success');
    }
    if (!document.querySelector(HTMLStrings.btnSubmitExpense).classList.contains('btn-danger'))
    {
        document.querySelector(HTMLStrings.btnSubmitExpense).classList.add('btn-danger');
    }
    }
    if (type === 'investment') {
        emoji = "🏠";
        if (document.querySelector(HTMLStrings.btnSubmitExpense).classList.contains('btn-danger'))
    {
        document.querySelector(HTMLStrings.btnSubmitExpense).classList.remove('btn-danger');
    }
    if (document.querySelector(HTMLStrings.btnSubmitExpense).classList.contains('btn-success'))
    {
        document.querySelector(HTMLStrings.btnSubmitExpense).classList.remove('btn-success');
    }
    if (!document.querySelector(HTMLStrings.btnSubmitExpense).classList.contains('btn-
warning')) {
        document.querySelector(HTMLStrings.btnSubmitExpense).classList.add('btn-warning');
    }
    }
}

```



```
document.querySelector(HTMLStrings.trackingText).textContent = "Tracking " + type + " " + emoji;
```

```
},
```

```
getUserExpenseInput() {  
  return {  
    description: document.querySelector(HTMLStrings.inExpenseDescription).value,  
    value: parseInt(document.querySelector(HTMLStrings.inExpenseValue).value),  
    date: new Date().toLocaleDateString(),  
    expenseType: this.expenseType ? this.expenseType : 'savings'  
  }  
},
```

```
addListItem (inputObj) {  
  let html, element;  
  element = HTMLStrings.expenseList;
```

```
  if (inputObj['expenseType'] === 'savings') {  
    html = '<div class="bottom-border"> <div class="row expense-row"><div class="col-2  
expense-date fs-15">' + inputObj['date'] + ' </div><div class="col-8 expense-text fs-15">' +  
inputObj['description'] + ' </div><div class="col-2 expense-value expense-saving fs-15"> ₹ ' +  
this.numberFormat(inputObj['value']) + ' </div></div>'  
  } else if (inputObj['expenseType'] === 'expense') {  
    html = '<div class="bottom-border"> <div class="row expense-row"><div class="col-2  
expense-date fs-15">' + inputObj['date'] + ' </div><div class="col-8 expense-text fs-15">' +  
inputObj['description'] + ' </div><div class="col-2 expense-value expense-cost fs-15"> ₹ ' +  
this.numberFormat(inputObj['value']) + ' </div></div>'  
  } else if (inputObj['expenseType'] === 'investment') {  
    html = '<div class="bottom-border"> <div class="row expense-row"><div class="col-2  
expense-date fs-15">' + inputObj['date'] + ' </div><div class="col-8 expense-text fs-15">' +  
inputObj['description'] + ' </div><div class="col-2 expense-value expense-investment fs-15"> ₹ ' +  
this.numberFormat(inputObj['value']) + ' </div></div>'  
  }
```

```
document.querySelector(element).insertAdjacentHTML('beforeend', html);
```

```
document.querySelector(HTMLStrings.inExpenseValue).value = "";  
document.querySelector(HTMLStrings.inExpenseDescription).value = "";  
},
```

```
updateOverallTotal(totalValue) {
```

```

        document.querySelector(HTMLStrings.monthBudget).textContent = "₹ " +
this.numberFormat(totalValue);

        if (totalValue > 0) {
            if (document.querySelector(HTMLStrings.monthBudget).classList.contains('expense-cost')) {
                document.querySelector(HTMLStrings.monthBudget).classList.remove('expense-cost');
            }
            document.querySelector(HTMLStrings.monthBudget).classList.add('expense-saving');
        } else {
            if (document.querySelector(HTMLStrings.monthBudget).classList.contains('expense-saving'))
{
                document.querySelector(HTMLStrings.monthBudget).classList.remove('expense-saving');
            }
            document.querySelector(HTMLStrings.monthBudget).classList.add('expense-cost');
        }
    },

displayChart(savings = 0, expenses = 0, investments = 0) {
    let ctx = document.querySelector(HTMLStrings.expenseChart);
    let expenseChart = new Chart(ctx, {
        type: 'doughnut',
        data: {
            labels: ['Savings', 'Expenses', 'Investments'],
            datasets: [{
                data: [savings, expenses, investments],
                backgroundColor: [
                    'rgba(32, 137, 56, 1)',
                    'rgba(255, 84, 98, 1)',
                    'rgba(255, 206, 86, 1)'
                ],
                borderWidth: 0.5
            }]
        },
        options: {
            legend: {
                labels: {
                    fontColor: 'white'
                }
            }
        }
    });
}

}
})();

```

```

((UIController, ExpenseController) => {

  let HTMLStrings = UIController.getHTMLStrings();
  let setupEventListeners = () => {
    document.querySelector(HTMLStrings.btnSubmitExpense).addEventListener('click', addExpense);
    document.querySelector(HTMLStrings.typeExpense).addEventListener('click', () => {
      setExpenseType('expense')
    });
    document.querySelector(HTMLStrings.typeInvestment).addEventListener('click', () => {
      setExpenseType('investment')
    });
    document.querySelector(HTMLStrings.typeSavings).addEventListener('click', () => {
      setExpenseType('savings')
    });
  };

  let setExpenseType = (type) => {
    UIController.setExpenseType(type);
  }

  let addExpense = () => {
    let input = UIController.getUserExpenseInput();
    console.log(input);

    if (input.description !== "" && !isNaN(input.value) && input.value > 0) {
      console.log('Adding item');
      UIController.addItem(input);
      ExpenseController.inputEntry(input);
      UIController.updateOverallTotal(ExpenseController.getTotalData());
      UIController.displayChart(ExpenseController.getSavingsData(),
ExpenseController.getExpensesData(),
ExpenseController.getInvestmentData());
    }
  }

  let init = () => {
    console.log('Initializing...');
    setupEventListeners();
    UIController.showCurrentMonth();
  }

  init();

```

```
})(UIController, ExpenseController);
</script>
</body>
</html>
```

#### **SPRINT 4:**

#### **CHECK THE EXPENSES - ALERT**

#### **PYTHON CODE FOR SPRINT 4:**

```
Reports.py:
import os
import calendar
import copy
import tendie_expenses
import tendie_dashboard
import tendie_categories
import tendie_budgets

from flask import request, session
from flask_session import Session
from sqlalchemy import create_engine
from sqlalchemy.orm import scoped_session, sessionmaker
from helpers import convertSQLToDict
from datetime import datetime

# Create engine object to manage connections to DB, and scoped session to separate user interactions
with DB
engine = create_engine(os.getenv("DATABASE_URL"))
db = scoped_session(sessionmaker(bind=engine))

# Generates data needed for the budget report by looping through each budget and adding expense history
where categories match between budgets and expenses
# TODO: This data/reporting becomes less beneficial when users have multiple budgets that have the
same categories checked because 1 expense with 'Category A' will be associated with for example 3
budgets that have 'Category A' checked
def generateBudgetsReport(userID, year=None):
    # Create data structure to hold users category spending data
    budgetsReport = []

    # Default to getting current years budgets
    if not year:
        year = datetime.now().year
```

```

# Get every budgets spent/remaining for the user
budgetsReport = tendie_dashboard.getBudgets(userID, year)

# Loop through the budgets and add a new key/value pair to hold expense details per budget
if budgetsReport:
    for record in budgetsReport:
        budgetID = tendie_budgets.getBudgetID(record["name"], userID)
        results = db.execute("SELECT expenses.description, expenses.category, expenses.expenseDate,
expenses.payer, expenses.amount FROM expenses WHERE user_id = :userID AND date_part('year',
date(expensedate)) = :year AND category IN (SELECT categories.name FROM budgetcategories INNER
JOIN categories on budgetcategories.category_id = categories.id WHERE budgetcategories.budgets_id =
:budgetID)",
                            {"userID": userID, "year": year, "budgetID": budgetID}).fetchall()
        expenseDetails = convertSQLToDict(results)
        record["expenses"] = expenseDetails

    return budgetsReport

# Generates data needed for the monthly spending report
def generateMonthlyReport(userID, year=None):

    # Default to getting current years reports
    if not year:
        year = datetime.now().year

    # Create data structure to hold users monthly spending data for the chart (monthly summed data)
    spending_month_chart = tendie_dashboard.getMonthlySpending(userID, year)

    # Get the spending data from DB for the table (individual expenses per month)
    results = db.execute(
        "SELECT description, category, expensedate, amount, payer FROM expenses WHERE user_id =
:userID AND date_part('year', date(expensedate)) = :year ORDER BY id ASC", {"userID": userID,
"year": year}).fetchall()
    spending_month_table = convertSQLToDict(results)

    # Combine both data points (chart and table) into a single data structure
    monthlyReport = {"chart": spending_month_chart,
                     "table": spending_month_table}

    return monthlyReport

```

```

# Generates data needed for the spending trends report
def generateSpendingTrendsReport(userID, year=None):

    # Default to getting current years reports
    if not year:
        year = datetime.now().year

    # Get chart data for spending trends
    spending_trends_chart = tendie_dashboard.getSpendingTrends(userID, year)

    # Data structure for spending trends table
    categories = []
    category = {"name": None, "expenseMonth": 0,
                "expenseCount": 0, "amount": 0}
    spending_trends_table = {
        "January": [],
        "February": [],
        "March": [],
        "April": [],
        "May": [],
        "June": [],
        "July": [],
        "August": [],
        "September": [],
        "October": [],
        "November": [],
        "December": []
    }

    # Get all of the users categories first (doesn't include old categories the user deleted but are still tracked
    in Expenses)
    categories_active = tendie_categories.getSpendCategories(userID)

    # Get any categories that are in expenses but no longer exist as a selectable category for the user
    (because they deleted the category)
    categories_inactive = tendie_categories.getSpendCategories_Inactive(userID)

    # First fill using the users current categories, and then inactive categories from Expenses
    for activeCategory in categories_active:
        category["name"] = activeCategory["name"]
        categories.append(category.copy())

    for inactiveCategory in categories_inactive:
        category["name"] = inactiveCategory["category"]

```

```

categories.append(category.copy())

# Place a deep copy of the categories into each month (need deep copy here because every category
may have unique spend data month to month. TODO: optimize this for memory/performance later)
for month in spending_trends_table.keys():
    spending_trends_table[month] = copy.deepcopy(categories)

# Get expense data for each category by month (retrieves the total amount of expenses per category by
month, and the total count of expenses per category by month. Assumes there is at least 1 expense for the
category)
results = db.execute(
    "SELECT date_part('month', date(expensedate)) AS monthofcategoryexpense, category AS name,
COUNT(category) AS count, SUM(amount) AS amount FROM expenses WHERE user_id = :usersID
AND date_part('year', date(expensedate)) = :year GROUP BY date_part('month', date(expensedate)),
category ORDER BY COUNT(category) DESC",
    {"usersID": userID, "year": year}).fetchall()

spending_trends_table_query = convertSQLToDict(results)

# Loop thru each monthly category expense from above DB query and update the data structure that
holds all monthly category expenses
for categoryExpense in spending_trends_table_query:
    # Get the key (month) for the data structure
    monthOfExpense = calendar.month_name[int(
        categoryExpense["monthofcategoryexpense"])]
    # Traverse the data structure: 1) go to the dict month based on the category expense date, 2) loop
thru each dict category until a match in name occurs with the expense, 3) update the dict
month/amount/count properties to match the DB record
    for category in spending_trends_table[monthOfExpense]:
        if category["name"] == categoryExpense["name"]:
            category["expenseMonth"] = categoryExpense["monthofcategoryexpense"]
            category["expenseCount"] = categoryExpense["count"]
            category["amount"] = categoryExpense["amount"]
            break
        else:
            continue

# Calculates and stores the amount spent per category for the table (note: can't get this to work in jinja
with the spending_trends_table dict because of how jinja scopes variables. TODO: rethink data-structure
to combine these)
numberOfCategories = len(categories)
categoryTotal = 0
# Loops through every month per category and sums up the monthly amounts
for i in range(numberOfCategories):

```

```

    for month in spending_trends_table.keys():
        categoryTotal += spending_trends_table[month][i]["amount"]
    categories[i]["amount"] = categoryTotal
    categoryTotal = 0

# Combine both data points (chart, table, categories) into a single data structure
spendingTrendsReport = {"chart": spending_trends_chart,
                        "table": spending_trends_table, "categories": categories}

return spendingTrendsReport

# Generates data needed for the payers spending report
def generatePayersReport(userID, year=None):

    # Default to getting current years reports
    if not year:
        year = datetime.now().year

    # First get all of the payers from expenses table (this may include payers that don't exist anymore for
    the user (i.e. deleted the payer and didn't update expense records))
    results_payers = db.execute(
        "SELECT payer AS name, SUM(amount) AS amount FROM expenses WHERE user_id = :userID
        AND date_part('year', date(expensedate)) = :year GROUP BY payer ORDER BY amount DESC",
        {"userID": userID, "year": year}).fetchall()
    payers = convertSQLToDict(results_payers)

    # Now get any payers the user has in their account but haven't expensed anything
    results_nonExpensePayers = db.execute(
        "SELECT name FROM payers WHERE user_id = :userID AND name NOT IN (SELECT payer
        FROM expenses WHERE expenses.user_id = :userID AND date_part('year', date(expensedate)) =
        :year)", {"userID": userID, "year": year}).fetchall()
    nonExpensePayers = convertSQLToDict(results_nonExpensePayers)

    # Add the non-expense payers to the payers data structure and set their amounts to 0
    for payer in nonExpensePayers:
        newPayer = {"name": payer["name"], "amount": 0}
        payers.append(newPayer)

    # Calculate the total paid for all payers combined
    totalPaid = 0
    for payer in payers:
        totalPaid = totalPaid + payer["amount"]

```



```

# Calculate the % paid per payer and add to the data structure
if totalPaid != 0:
    for payer in payers:
        payer["percentAmount"] = round((payer["amount"] / totalPaid) * 100)
return payers
else:
    return None

```

## 8. TESTING

### 8.1 Testcase

NFT - Risk Assessment									
S.No	Project Name	Scope/feature	Functional Changes	Hardware Changes	Software Changes	Impact of Downtime	Load/Volumen Changes	Risk Score	Justification
1	Personal Expense Tr	Existing	No Changes	No Changes	Moderate	Low	>5 to 10%	ORANGE	As we have seen the chnages
		Existing	Moderate	No Changes	Moderate	Low	>10 to 15%	GREEN	
		New	Moderate	No Changes	Low	Low	>5 to 20%	GREEN	
		New	High	No Changes	High	Moderate	>5 to 20%	YELLOW	
NFT - Detailed Test Plan									
S.No		Project Overview		NFT Test approach		sumptions/Dependencies/R		Approvals/SignOff	
1		Expenses management		Usability		Dependencies		Approvals	
				Security		Assumptions		Approvals	
End Of Test Report									
S.No	Project Overview	NFT Test approach	NFR - Met	Test Outcome	GO/NO-GO decision	Recommendations	Identified Defects (Detected/Closed/Open)	Approvals/SignOff	
1	Usability	Yes	low	Go	good	Detected	Approvals		
2	Security	Yes	Moderate		good	Open	Approvals		
3	Reliability	Yes	Moderate		good	Detected	Approvals		
4	Performance	Yes	High		good	Detected	Approvals		

### 8.2 Performance Testing

Date	03-Nov-22								
Team ID	PNT2022TMD23434								
Project Name	Project - Personal Expense Tracker Application								
Maximum Marks	4 marks								
Pre-Requlite	Steps To Execute	Test Data	Expected Result	Actual Result	Status	Commnets	TC for Automation(Y/N)	BUG ID	Executed By
	GET STARTED ->". Press "SIGN UP"	<a href="http://127.0.0.1:5000">http://127.0.0.1:5000</a>	Signup page should display	Working as expected	Pass				testrigor
	press "Sign Up"	<a href="http://localhost:5000/signup">http://localhost:5000/signup</a>	User should navigate to dashboard	Working as expected	Pass				testrigor
	press "Sign In"	<a href="http://localhost:5000/signin">http://localhost:5000/signin</a>	User should navigate to dashboard	Working as expected	Pass				testrigor
	press "About Us"	<a href="http://localhost:5000/aboutus">http://localhost:5000/aboutus</a>	User should navigate to about us page	Working as expected	Pass				testrigor
	press "Contact Us"	<a href="http://localhost:5000/contactus">http://localhost:5000/contactus</a>	User should navigate to contact us page	Working as expected	Pass				testrigor
	press "Contact Us" and click on chat bot	<a href="http://localhost:5000/contactus">http://localhost:5000/contactus</a>	chat bot should pop up	Working as expected	Pass				testrigor
	Go to sign in/sign up page and click sign button	<a href="http://localhost:5000/dashboard?username=neerajayuganti1304%40gmail.com&amp;psw=5pgGfqDmeEc8%403W">http://localhost:5000/dashboard?username=neerajayuganti1304%40gmail.com&amp;psw=5pgGfqDmeEc8%403W</a>	user should navigate to Dashboard	Working as expected	Pass				testrigor
	Go to sign in/sign up page and click sign button -->dashboard-->Adding Expenses	<a href="http://localhost:5000/addingExpenses">http://localhost:5000/addingExpenses</a>	user should navigate to adding expenses	Working as expected	Pass				testrigor
	Go to sign in/sign up page and click sign button -->dashboard-->Adding Expenses-->expense type	<a href="http://localhost:5000/addingExpenses">http://localhost:5000/addingExpenses</a>	user should be able to add their expenses	Working as expected	Pass				testrigor
	Go to sign in/sign up page and click sign button -->dashboard-->Adding Expenses--	<a href="http://localhost:5000/addingExpenses">http://localhost:5000/addingExpenses</a>	user should be able to see their budget	Working as expected	Pass				testrigor

## **9. RESULTS**

### **9.1 Performance Metrics**

Software quality is a measurement of something intangible, “how good” a software product really is. Some of the aspects of Software quality taken are

- a. Scalability
- b. Speed
- c. Stability
- d. Reliability
- e. Security
- f. Maintainability and code quality

## **10. ADVANTAGES AND DISADVANTAGES:**

### **ADVANTAGES**

1. Track your expenses anywhere any time.
2. Manage your money and budget without any financial paperwork
3. Flexible and adaptive application suited to personal and business man.
4. It helps to track the daily expenses in extra efficient and manageable way.
5. It can reduce the manual calculation for the expenses

### **DISADVANTAGES:**

1. Automating everything to do with your finances can make you financially lazy.
2. Rigid Decision making and only consider financial out comes
3. May less secure sometimes
4. loading of views may be dependent on records.
5. Data Maintenance may be difficult due to entering data by user

## **11. CONCLUSION:**

After making this application we assure that this application will help its users to manage the cost of their daily expenditure. It will guide them and make them aware about their daily expenses. It will prove to be helpful for the people who are frustrated with their daily budget management, irritated because of the amount of expenses and wish to manage money and to preserve the record of their daily cost which may be useful to change their way of spending money. In short, this application will help its users to overcome the wastage of money.

## **12. FUTURE SCOPE:**

1. We are trying to make this app synchronize with mail and bank account so upcoming bill alert should mail and transaction should stop if there is less balance in account.
2. More Functionality like capture receipt, add location, backup data will be added very soon.
3. We are trying to increase software performance by using maximum use of core.
4. We will try to develop more user friendly Application.
5. The sms sending and receiving module will be created to inform about upcoming bills.
6. The automation email generation with bill detail will be created to make Application more automated and less user efforts.

### 13. APPENDIX

Python code

```
from flask import Flask, request, redirect
from flask import Blueprint, render_template
app = Flask(__name__)
```

```
app.debug = True
```

```
@app.route('/')
def landingPage():
    return render_template("landingPage.html")
```

```
@app.route('/navbar')
def navbar():
    return render_template("Navbar.html")
```

```
@app.route('/contactus')
def contactus():
    return render_template("contactUs.html")
```

```
@app.route('/signup')
def signup():
    return render_template("signUp.html")
```

```
@app.route('/signin')
def signin():
    return render_template("signIn.html")
```

```
@app.route('/aboutus')
def aboutus():
```

```

    return render_template("aboutUs.html")

@app.route('/skeleton')
def skeleton():
    return render_template("skeleton.html")

@app.route('/dashboard')
def dashboard():
    return render_template("dashboard.html")

@app.route('/addingExpenses')
def addingExpenses():
    return render_template("addingExpenses.html")

if __name__ == '__main__':
    app.run()

```

## INDEX CODE:

### NavBar.html:

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <link
        rel="stylesheet"
        href="{ { url_for('static',filename='Navbar.css') } }"
    />
</head>
<body>
    <nav>
        <a href="/" class="appName">Expense Tracker</a>
        <div class="rightNav">
            <span><a href="/aboutus" class="landingLink"> About Us</a></span>
            <span><a href="/contactus" class="landingLink"> Contact Us</a></span>
            <span><a href="/signin" class="landingLink">Sign In</a> </span>
            <span><a href="/signup" class="landingLink">Sign Up</a></span>
        </div>
    </nav>
</body>
</html>

```

### AboutUs.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <link
      rel="stylesheet"
      href="{ {url_for('static',filename='aboutUs.css')}}"
    />
    <title>About Us</title>
  </head>
  <body>
    {% include 'Navbar.html' %}
    <h1>About Us Page</h1>
    <div class="about">
      <p><pre><i>We four friends developed this expense tracker that will help everyone track their expenses.
Expense Tracker helps you to get your finances into the shape so that you don't need to stress about every
penny that you spend. If you know how much and what on you spend, it is easier to change your financial
habits, if you feel like that's what you need. Having a complete picture of your finances in one place.
make them easier to manage.</i></pre></p>
      <p><pre><i>This app allows you to input your income and expenses and gives analytics and insights in
the form of
graphs and bars which help you to track your expenses. It also provides various functionalites such as
creation of budget, gives alert of the upcoming transactions, Information about discounts and various
other functions that helps you to save money</i></pre></p>
    </div>
  </body>
</html>
```

### AddingExpense.html:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Expense Manager</title>
    <!-- Icon Bar link-->
    <link rel = "icon" href = "image/wallet2.svg" type = "image/x-icon">

    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css"
```

```
    integrity="sha384-
Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"
crossorigin="anonymous">
    <link
    rel="stylesheet"
    href="{ {url_for('static',filename='style.css')} } "
    />
    <link href="https://fonts.googleapis.com/css2?family=Open+Sans:wght@400;700&display=swap"
rel="stylesheet">
    <link href="https://cdnjs.cloudflare.com/ajax/libs/Chart.js/2.9.3/Chart.css" rel="stylesheet">
    <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js"
        integrity="sha384-
KJ3o2DKtIkVYIK3UENzmM7KCKRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"
        crossorigin="anonymous"></script>
    <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js"
        integrity="sha384-
ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"
        crossorigin="anonymous"></script>
    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"
        integrity="sha384-
JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmYI"
        crossorigin="anonymous"></script>
    <script src="https://cdnjs.cloudflare.com/ajax/libs/Chart.js/2.9.3/Chart.js"
crossorigin="anonymous"></script>

<!-- Bootstrap CSS -->
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta1/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
giJF6kkoqNQ00vy+HMDP7azOuL0xtbfIcaT9wjKHr8RbDVddVHyTfAAsrekwKmP1"
crossorigin="anonymous">
```

```
<!--          PDF          -->
<script src="html2pdf.bundle.min.js"></script>
<script>
function generatePDF() {
    // Choose the element that our invoice is rendered in.
    const element = document.getElementById("invoice");
    // Choose the element and save the PDF for our user.
    html2pdf()
        .from(element)
        .save();
}
</script>
```

```

</head>
<body>
    <!--          NAV BAR          -->
    <nav class="navbar navbar-expand-lg navbar-dark bg-primary">
        <div class="container-fluid">
            <a class="navbar-brand active" href="#">Adding Expenses</a>
            <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
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">
                <div><button type="button" class="btn btn-danger" onclick="generatePDF()">Generate
PDF</button></div>
            </div>
        </nav>
    <!--          GEnErating PDF File          -->
    <div id="invoice">
        <!--          Container For Showing EXPENSE ANF Income          -->
        <div class="row">
            <div class="col-4 left-container">
                <div class="month-container">
                    <div class="header fs-white">Your Budget</div>
                    <div id="current-month" class="sub-text fs-white"></div>
                    <div class="budget-container p-2 mt-4">
                        <span id="month-budget" class="month-amount">₹ 0</span>
                    </div>
                </div>

                <div class="chart-container">
                    <canvas id="expense-chart"></canvas>
                </div>
            </div>
            <div class="col-7 right-container">
                <div class="calc-container">
                    <div class="header fs-dark-grey">Track Your Budget</div>
                    <div class="dropdown open">
                        <button class="btn btn-info dropdown-toggle"
                            type="button" id="dropdownMenu3" data-toggle="dropdown"
                            aria-haspopup="true" aria-expanded="false">
                            Expense Type
                        </button>

```



```

    <div class="dropdown-menu">
      <a class="dropdown-item" id="type-savings">Savings</a>
      <a class="dropdown-item" id="type-expense">Expense</a>
      <a class="dropdown-item" id="type-investment">Investment</a>
    </div>
  </div>
  <div class="mt-3 tracking-text text-capitalize sub-text bottom-border">Tracking Savings
    💰 </div>

  <div class="row mt-4">
    <div class="col-7">
      <input class="form-control input-expense-description" type="text"
placeholder="Description">
    </div>
    <div class="col-4">
      <input class="form-control input-expense-value" type="number" placeholder="Value">
    </div>
    <div class="col-1">
      <button type="button" class="btn btn-success btn-submit-expense">&check;</button>
    </div>
  </div>
  <div class="expense-list mt-4">

</div>

</div>
</div>
</div>
<!--    Closing div for    PDF    -->
</div>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-beta1/dist/js/bootstrap.bundle.min.js"
integrity="sha384-ygbV9kiqUc6oa4msXn9868pTtWMgiQaeYH7/t7LECLbyPA2x65Kgf80OJFdroafW"
crossorigin="anonymous"></script>

<script>
let ExpenseController = (() => {
  let total = 0, savings = 0, expenses = 0, investments = 0;

  return {
    inputEntry(userInput) {
      if (userInput['expenseType'] === 'savings') {
        savings += userInput['value'];
        total += userInput['value'];
      }
    }
  }
}

```

```

        if (userInput['expenseType'] === 'investment') {
            investments += userInput['value'];
            total -= userInput['value'];
        }
        if (userInput['expenseType'] === 'expense') {
            expenses += userInput['value'];
            total -= userInput['value'];
        }
    },

    getSavingsData() {
        return savings;
    },

    getExpensesData() {
        return expenses;
    },

    getInvestmentData() {
        return investments;
    },

    getTotalData() {
        return total;
    }
}

})();

let UIController = (() => {
    let expenseType = 'savings';

    let HTMLStrings = {
        inExpenseDescription: 'input-expense-description',
        inExpenseValue: 'input-expense-value',
        btnSubmitExpense: 'btn-submit-expense',
        expenseList: 'expense-list',
        currentMonth: '#current-month',
        typeExpense: '#type-expense',
        typeSavings: '#type-savings',
        typeInvestment: '#type-investment',
        trackingText: 'tracking-text',
        expenseChart: '#expense-chart',
        monthBudget: '#month-budget'
    }

```

```

};

return {
  numberFormat(number) {
    return Intl.NumberFormat('en-IN').format(number);
  },
  showCurrentMonth() {
    let now, month, year, months;

    now = new Date();
    month = now.getMonth();
    year = now.getFullYear();
    months = [
      'January', 'February', 'March', 'April', 'May', 'June', 'July', 'August', 'September', 'October',
      'November', 'December'
    ];
    document.querySelector(HTMLStrings.currentMonth).textContent = months[month] + " " + year;
  },

  getHTMLStrings() {
    return HTMLStrings;
  },

  setExpenseType(type) {
    console.log('here', type);
    this.expenseType = type;
    let emoji = "💰";
    if (type === 'savings') {
      emoji = "💵";
      if (document.querySelector(HTMLStrings.btnSubmitExpense).classList.contains('btn-
warning')) {
        document.querySelector(HTMLStrings.btnSubmitExpense).classList.remove('btn-warning');
      }
      if (document.querySelector(HTMLStrings.btnSubmitExpense).classList.contains('btn-danger'))
    {
      document.querySelector(HTMLStrings.btnSubmitExpense).classList.remove('btn-danger');
    }
    if (!document.querySelector(HTMLStrings.btnSubmitExpense).classList.contains('btn-
success')) {
      document.querySelector(HTMLStrings.btnSubmitExpense).classList.add('btn-success');
    }
  }

  if (type === 'expense') {

```

```

        emoji = "☐";
        if (document.querySelector(HTMLStrings.btnSubmitExpense).classList.contains('btn-
warning')) {
            document.querySelector(HTMLStrings.btnSubmitExpense).classList.remove('btn-warning');
        }
        if (document.querySelector(HTMLStrings.btnSubmitExpense).classList.contains('btn-success'))
        {
            document.querySelector(HTMLStrings.btnSubmitExpense).classList.remove('btn-success');
        }
        if (!document.querySelector(HTMLStrings.btnSubmitExpense).classList.contains('btn-danger'))
        {
            document.querySelector(HTMLStrings.btnSubmitExpense).classList.add('btn-danger');
        }
    }
    if (type === 'investment') {
        emoji = "🏠";
        if (document.querySelector(HTMLStrings.btnSubmitExpense).classList.contains('btn-danger'))
        {
            document.querySelector(HTMLStrings.btnSubmitExpense).classList.remove('btn-danger');
        }
        if (document.querySelector(HTMLStrings.btnSubmitExpense).classList.contains('btn-success'))
        {
            document.querySelector(HTMLStrings.btnSubmitExpense).classList.remove('btn-success');
        }
        if (!document.querySelector(HTMLStrings.btnSubmitExpense).classList.contains('btn-
warning')) {
            document.querySelector(HTMLStrings.btnSubmitExpense).classList.add('btn-warning');
        }
    }

    document.querySelector(HTMLStrings.trackingText).textContent = "Tracking " + type + " " +
emoji;

    },

    getUserExpenseInput() {
        return {
            description: document.querySelector(HTMLStrings.inExpenseDescription).value,
            value: parseInt(document.querySelector(HTMLStrings.inExpenseValue).value),
            date: new Date().toLocaleDateString(),
            expenseType: this.expenseType ? this.expenseType : 'savings'
        }
    },

```

```

addListItem (inputObj) {
    let html, element;
    element = HTMLStrings.expenseList;

    if (inputObj['expenseType'] === 'savings') {
        html = '<div class="bottom-border"> <div class="row expense-row"><div class="col-2
expense-date fs-15">' + inputObj['date'] + ' </div><div class="col-8 expense-text fs-15">' +
inputObj['description'] + ' </div><div class="col-2 expense-value expense-saving fs-15"> ₹ ' +
this.numberFormat(inputObj['value']) + ' </div></div>'
    } else if (inputObj['expenseType'] === 'expense') {
        html = '<div class="bottom-border"> <div class="row expense-row"><div class="col-2
expense-date fs-15">' + inputObj['date'] + ' </div><div class="col-8 expense-text fs-15">' +
inputObj['description'] + ' </div><div class="col-2 expense-value expense-cost fs-15"> ₹ ' +
this.numberFormat(inputObj['value']) + ' </div></div>'
    } else if (inputObj['expenseType'] === 'investment') {
        html = '<div class="bottom-border"> <div class="row expense-row"><div class="col-2
expense-date fs-15">' + inputObj['date'] + ' </div><div class="col-8 expense-text fs-15">' +
inputObj['description'] + ' </div><div class="col-2 expense-value expense-investment fs-15"> ₹ ' +
this.numberFormat(inputObj['value']) + ' </div></div>'
    }

    document.querySelector(element).insertAdjacentHTML('beforeend', html);

    document.querySelector(HTMLStrings.inExpenseValue).value = "";
    document.querySelector(HTMLStrings.inExpenseDescription).value = "";
},

updateOverallTotal(totalValue) {
    document.querySelector(HTMLStrings.monthBudget).textContent = "₹ " +
this.numberFormat(totalValue);

    if (totalValue > 0) {
        if (document.querySelector(HTMLStrings.monthBudget).classList.contains('expense-cost')) {
            document.querySelector(HTMLStrings.monthBudget).classList.remove('expense-cost');
        }
        document.querySelector(HTMLStrings.monthBudget).classList.add('expense-saving');
    } else {
        if (document.querySelector(HTMLStrings.monthBudget).classList.contains('expense-saving'))
        {
            document.querySelector(HTMLStrings.monthBudget).classList.remove('expense-saving');
        }
        document.querySelector(HTMLStrings.monthBudget).classList.add('expense-cost');
    }
}

```

```

    },

    displayChart(savings = 0, expenses = 0, investments = 0) {
        let ctx = document.querySelector(HTMLStrings.expenseChart);
        let expenseChart = new Chart(ctx, {
            type: 'doughnut',
            data: {
                labels: ['Savings', 'Expenses', 'Investments'],
                datasets: [{
                    data: [savings, expenses, investments],
                    backgroundColor: [
                        'rgba(32, 137, 56, 1)',
                        'rgba(255, 84, 98, 1)',
                        'rgba(255, 206, 86, 1)'
                    ],
                    borderWidth: 0.5
                }]
            },
            options: {
                legend: {
                    labels: {
                        fontFamily: 'white'
                    }
                }
            }
        });
    }
}
})();

```

```

((UIController, ExpenseController) => {

```

```

    let HTMLStrings = UIController.getHTMLStrings();
    let setupEventListeners = () => {
        document.querySelector(HTMLStrings.btnSubmitExpense).addEventListener('click', addExpense);
        document.querySelector(HTMLStrings.typeExpense).addEventListener('click', () => {
            setExpenseType('expense')
        });
        document.querySelector(HTMLStrings.typeInvestment).addEventListener('click', () => {
            setExpenseType('investment')
        });
        document.querySelector(HTMLStrings.typeSavings).addEventListener('click', () => {
            setExpenseType('savings')
        });
    };

```

```

};

let setExpenseType = (type) => {
  UIController.setExpenseType(type);
}

let addExpense = () => {
  let input = UIController.getUserExpenseInput();
  console.log(input);

  if (input.description !== "" && !isNaN(input.value) && input.value > 0) {
    console.log('Adding item');
    UIController.addListItem(input);
    ExpenseController.inputEntry(input);
    UIController.updateOverallTotal(ExpenseController.getTotalData());
    UIController.displayChart(ExpenseController.getSavingsData(),
ExpenseController.getExpensesData(),
    ExpenseController.getInvestmentData());
  }
}

let init = () => {
  console.log('Initializing...');
  setupEventListeners();
  UIController.showCurrentMonth();
}

init();

})(UIController, ExpenseController);
</script>
</body>
</html>
ContactUs.html:
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <meta http-equiv="X-UA-Compatible" content="IE=edge" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <link
    rel="stylesheet"
    href="{ {url_for('static',filename='contactUs.css')}}"
  />

```

```

<title>Contact Us</title>
</head>
<body>
  {% include 'Navbar.html' %}
  <h1>Contact Us Page</h1>
  <script>
    window.watsonAssistantChatOptions = {
      integrationID: "65e6917c-135a-4648-9eef-f0b647fdac98", // The ID of this integration.
      region: "jp-tok", // The region your integration is hosted in.
      serviceInstanceID: "6031e5ab-decf-4990-ad01-54cf7a987e0e", // The ID of your service instance.
      onLoad: function(instance) { instance.render(); }
    };
    setTimeout(function(){
      const t=document.createElement('script');
      t.src="https://web-chat.global.assistant.watson.appdomain.cloud/versions/" +
(window.watsonAssistantChatOptions.clientVersion || 'latest') + "/WatsonAssistantChatEntry.js";
      document.head.appendChild(t);
    });
  </script>
</body>
</html>

```

Dashboard.html:

```

<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Dashboard</title>
  </head>
  <body>
    {% include 'skeleton.html' %}

    <div class="flex flex-col md:pl-64">
      <main class="flex-1">
        <div class="py-6">
          <div class="mx-auto max-w-7xl px-4 sm:px-6 md:px-8">
            <h1 class="text-2xl font-semibold text-[#d32840]">Dashboard</h1>
          </div>
          <div class="mx-auto max-w-7xl px-4 sm:px-6 md:px-8">
            <!-- Replace with your content -->
            <div class="py-4">
              <div
                class="h-[38rem] rounded-lg border-4 border-dashed border-gray-200"

```



```

        ></div>
    </div>
    <!-- /End replace -->
</div>
</div>
</main>
</div>
</body>
</html>

```

### **LandingPage.html:**

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <link
        rel="stylesheet"
        href="{ {url_for('static',filename='landingPage.css')}} "
    />
    <title>Expense Tracker Landing Page</title>
</head>
<body>
    {% include 'Navbar.html' %}
    <div class="contents">
        <div class="leftContents">
            <p class="message1">The Expense Tracker for your needs</p>
            <p class="message2">Track all your expenses here...</p>
            <div>
                <a href="/dashboard" class="getStartedButton">Get Started -></a>
            </div>
        </div>
        <div class="rightContents">
            
        </div>
    </div>
</body></html>

```

### SignUp.html:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Sign Up</title>
    <link
      rel="stylesheet"
      href="{{ url_for('static',filename='signUp.css') }}"
    />
  </head>
  <body>
    {% include 'Navbar.html' %}
    <h1>Sign Up Page</h1>
    <section class="signup" style="border:1px solid rgb(32, 30, 30)">
      <form action="/dashboard" class="hero">
        <label for="fullname"><b>Full Name</b></label>
        <input type="text" placeholder="Enter name" name="name" class="name" required></br></br>
        <label for="email"><b>Email</b></label>
        <input type="text" placeholder="Enter Email" name="email" class="email" required></br></br>
        <label for="username"><b>Username</b></label>
        <input type="text" placeholder="Enter username" name="username" class="username"
required></br></br>
        <label for="psw"><b>Password</b></label>
        <input type="password" placeholder="Enter Password" name="psw" class="psw"
required></br></br>
        <label for="psw-repeat"><b>Repeat Password</b></label>
        <input type="password" placeholder="Repeat Password" name="psw-repeat" class="psw-repeat"
required></br></br>
        <div class="clearfix">
          <button type="button" class="cancelbtn">Cancel</button></br>
          <a href="/dashboard" target="_blank"><button type="submit" class="signupbtn">Sign
Up</button></a>
        </div>
        <p class="or">or</p>
        <a href="/login" target="_blank"><button class="google">sign up with google</button></a>
      </form>
    </section>
  </body>
</html>
```

**Skeleton.html:**

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />

    <link
      rel="stylesheet"
      href="{ { url_for('static',filename='css/skeleton.css') } }"
    />
    <script src="https://cdn.tailwindcss.com"></script>
  </head>
  <body class="bg-[#fff7e9]">
    <div>
      <div class="relative z-40 md:hidden" role="dialog" aria-modal="true">

        <div class="fixed inset-0 bg-[#d32840] bg-opacity-75"></div>

        <div class="fixed inset-0 z-40 flex">
          >
            <div
              class="relative flex w-full max-w-xs flex-1 flex-col bg-gray-800 pt-5 pb-4"
            >

              <div class="absolute top-0 right-0 -mr-12 pt-2">
                <button
                  type="button"
                  class="ml-1 flex h-10 w-10 items-center justify-center rounded-full focus:outline-none
focus:ring-2 focus:ring-inset focus:ring-white"
                >
                  <span class="sr-only">Close sidebar</span>

                <svg
                  class="h-6 w-6 text-white"
                  xmlns="http://www.w3.org/2000/svg"
                  fill="none"
                  viewBox="0 0 24 24"
                  stroke-width="1.5"
                  stroke="currentColor"
                  aria-hidden="true"
                >
                  <path
```

```

        stroke-linecap="round"
        stroke-linejoin="round"
        d="M6 18L18 6M6 6l12 12"
      />
    </svg>
  </button>
</div>

<div class="flex flex-shrink-0 items-center px-4">

</div>
<div class="mt-5 h-0 flex-1 overflow-y-auto">
  <nav class="space-y-1 px-2 ">

    <a
      href="/dashboard"
      class="bg-gray-900 text-white group flex items-center px-2 py-2 text-base font-medium
rounded-md"
    >
      <!-- Heroicon name: outline/home -->
      <svg
        class="text-gray-300 mr-4 flex-shrink-0 h-6 w-6"
        xmlns="http://www.w3.org/2000/svg"
        fill="none"
        viewBox="0 0 24 24"
        stroke-width="1.5"
        stroke="currentColor"
        aria-hidden="true"
      >
        <path
          stroke-linecap="round"
          stroke-linejoin="round"
          d="M2.25 12l8.954-8.954c.44-.439 1.152-.439 1.591 0L21.75 12M4.5 9.75v10.125c0
.621.504 1.125 1.125 1.125H9.75v-4.875c0-.621.504-1.125 1.125-1.125h2.25c.621 0 1.125.504 1.125
1.125V21h4.125c.621 0 1.125-.504 1.125-1.125V9.75M8.25 21h8.25"
        />
      </svg>
      Dashboard
    </a>

    <a
      href="#"
      class="text-gray-300 hover:bg-[#a31d2f] hover:text-white group flex items-center px-2 py-2
text-base font-medium rounded-md"

```

```

>
<!-- Heroicon name: outline/users -->
<svg
  class="text-gray-400 group-hover:text-gray-300 mr-4 flex-shrink-0 h-6 w-6"
  xmlns="http://www.w3.org/2000/svg"
  fill="none"
  viewBox="0 0 24 24"
  stroke-width="1.5"
  stroke="currentColor"
  aria-hidden="true"
>
  <path
    stroke-linecap="round"
    stroke-linejoin="round"
    d="M15 19.128a9.38 9.38 0 002.625 3.72 9.337 9.337 0 004.121-.952 4.125 4.125 0 00-
7.533-2.493M15 19.128v-.003c0-1.113-.285-2.16-.786-3.07M15 19.128v.106A12.318 12.318 0 018.624
21c-2.331 0-4.512-.645-6.374-1.766l-.001-.109a6.375 6.375 0 0111.964-3.07M12 6.375a3.375 3.375 0
11-6.75 0 3.375 3.375 0 016.75 0zm8.25 2.25a2.625 2.625 0 11-5.25 0 2.625 2.625 0 015.25 0z"
  />
</svg>
Team
</a>

<a
  href="#"
  class="text-gray-300 hover:bg-[#a31d2f] hover:text-white group flex items-center px-2 py-2
text-base font-medium rounded-md"
>
<!-- Heroicon name: outline/folder -->
<svg
  class="text-gray-400 group-hover:text-gray-300 mr-4 flex-shrink-0 h-6 w-6"
  xmlns="http://www.w3.org/2000/svg"
  fill="none"
  viewBox="0 0 24 24"
  stroke-width="1.5"
  stroke="currentColor"
  aria-hidden="true"
>
  <path
    stroke-linecap="round"
    stroke-linejoin="round"
    d="M2.25 12.75V12A2.25 2.25 0 014.5 9.75h15A2.25 2.25 0 0121.75 12v.75m-8.69-6.44l-
2.12-2.12a1.5 1.5 0 00-1.061-.44H4.5A2.25 2.25 0 002.25 6v12a2.25 2.25 0 002.25 2.25h15A2.25 2.25 0
0021.75 18V9a2.25 2.25 0 00-2.25-2.25h-5.379a1.5 1.5 0 01-1.06-.44z"

```

```

    />
  </svg>
  Projects
</a>

<a
  href="#"
  class="text-gray-300 hover:bg-gray-700 hover:text-white group flex items-center px-2 py-2
text-base font-medium rounded-md"
>
  <!-- Heroicon name: outline/categories -->
  <svg
    class="text-gray-400 group-hover:text-gray-300 mr-4 flex-shrink-0 h-6 w-6"
    xmlns="http://www.w3.org/2000/svg"
    fill="none"
    viewBox="0 0 24 24"
    stroke-width="1.5"
    stroke="currentColor"
    aria-hidden="true"
  >
    <path
      stroke-linecap="round"
      stroke-linejoin="round"
      d="M6.75 3v2.25M17.25 3v2.25M3 18.75V7.5a2.25 2.25 0 012.25-2.25h13.5A2.25 2.25 0
0121 7.5v11.25m-18 0A2.25 2.25 0 005.25 21h13.5A2.25 2.25 0 0021 18.75m-18 0v-7.5A2.25 2.25 0
015.25 9h13.5A2.25 2.25 0 0121 11.25v7.5"
    />
  </svg>
  Categories
</a>

<a
  href="#"
  class="text-gray-300 hover:bg-gray-700 hover:text-white group flex items-center px-2 py-2
text-base font-medium rounded-md"
>
  <!-- Heroicon name: outline/inbox -->
  <svg
    class="text-gray-400 group-hover:text-gray-300 mr-4 flex-shrink-0 h-6 w-6"
    xmlns="http://www.w3.org/2000/svg"
    fill="none"
    viewBox="0 0 24 24"
    stroke-width="1.5"
    stroke="currentColor"

```

```

        aria-hidden="true"
    >
    <path
        stroke-linecap="round"
        stroke-linejoin="round"
        d="M2.25 13.5h3.86a2.25 2.25 0 012.012 1.244l.256.512a2.25 2.25 0 002.013
1.244h3.218a2.25 2.25 0 002.013-1.244l.256-.512a2.25 2.25 0 012.013-1.244h3.859m-19.5338V18a2.25
2.25 0 002.25 2.25h15A2.25 2.25 0 0021.75 18v-4.162c0-.224-.034-.447-.1-.661L19.24 5.338a2.25 2.25
0 00-2.15-1.588H6.911a2.25 2.25 0 00-2.15 1.588L2.35 13.177a2.25 2.25 0 00-.1661z"
    />
</svg>
Documents
</a>

<a
    href="#"
    class="text-gray-300 hover:bg-gray-700 hover:text-white group flex items-center px-2 py-2
text-base font-medium rounded-md"
    >
    <!-- Heroicon name: outline/chart-bar -->
    <svg
        class="text-gray-400 group-hover:text-gray-300 mr-4 flex-shrink-0 h-6 w-6"
        xmlns="http://www.w3.org/2000/svg"
        fill="none"
        viewBox="0 0 24 24"
        stroke-width="1.5"
        stroke="currentColor"
        aria-hidden="true"
    >
    <path
        stroke-linecap="round"
        stroke-linejoin="round"
        d="M3 13.125C3 12.504 3.504 12 4.125 12h2.25c.621 0 1.125.504 1.125 1.125v6.75C7.5
20.496 6.996 21 6.375 21h-2.25A1.125 1.125 0 013 19.875v-6.75zM9.75 8.625c0-.621.504-1.125 1.125-
1.125h2.25c.621 0 1.125.504 1.125 1.125v11.25c0 .621-.504 1.125-1.125 1.125h-2.25a1.125 1.125 0 01-
1.125-1.125V8.625zM16.5 4.125c0-.621.504-1.125 1.125-1.125h2.25C20.496 3 21 3.504 21
4.125v15.75c0 .621-.504 1.125-1.125 1.125h-2.25a1.125 1.125 0 01-1.125-1.125V4.125z"
    />
    </svg>
    Reports
</a>
</nav>
</div>
</div>

```

```

<div class="w-14 flex-shrink-0" aria-hidden="true">
  <!-- Dummy element to force sidebar to shrink to fit close icon -->
</div>
</div>
</div>

<!-- Static sidebar for desktop -->
<div class="hidden md:fixed md:inset-y-0 md:flex md:w-64 md:flex-col">
  <!-- Sidebar component, swap this element with another sidebar if you like -->
  <div class="flex min-h-0 flex-1 flex-col bg-[#d32840]">
    <div class="flex h-16 flex-shrink-0 items-center bg-[#a31d2f] px-4">
      <a href="/" class="text-2xl font-bold text-[#fff7e9]">Expense Tracker</a>
    </div>
    <div class="flex flex-1 flex-col overflow-y-auto">
      <nav class="flex-1 space-y-1 px-2 py-4">
        <!-- Current: "bg-gray-900 text-white", Default: "text-gray-300 hover:bg-gray-700 hover:text-white" -->
        <a
          href="/dashboard"
          class="bg-[#a31d2f] text-[#fff7e9] group flex items-center px-2 py-2 text-sm font-medium rounded-md"
        >
          <!--
          Heroicon name: outline/home

          Current: "text-gray-300", Default: "text-gray-400 group-hover:text-gray-300"
        -->
        <svg
          class="text-gray-300 mr-3 flex-shrink-0 h-6 w-6"
          xmlns="http://www.w3.org/2000/svg"
          fill="none"
          viewBox="0 0 24 24"
          stroke-width="1.5"
          stroke="currentColor"
          aria-hidden="true"
        >
          <path
            stroke-linecap="round"
            stroke-linejoin="round"
            d="M2.25 12l8.954-8.954c.44-.439 1.152-.439 1.591 0L21.75 12M4.5 9.75v10.125c0 .621.504 1.125 1.125 1.125H9.75v-4.875c0-.621-.504-1.125-1.125-1.125h2.25c.621 0 1.125.504 1.125 1.125V9.75c0-.621-.504-1.125-1.125-1.125h2.25c.621 0 1.125.504 1.125 1.125V9.75M8.25 21h8.25"
          />

```



```

</svg>
Dashboard
</a>

<a
  href="/addingExpenses"
  class="text-[#fff7e9] hover:bg-[#a31d2f] hover:text-white group flex items-center px-2 py-2
text-sm font-medium rounded-md"
>
  <!-- Heroicon name: outline/users -->
  <svg
    class="text-[#fff7e9] group-hover:text-gray-300 mr-3 flex-shrink-0 h-6 w-6"
    xmlns="http://www.w3.org/2000/svg"
    fill="none"
    viewBox="0 0 24 24"
    stroke-width="1.5"
    stroke="currentColor"
    aria-hidden="true"
  >
    <path
      stroke-linecap="round"
      stroke-linejoin="round"
      d="M15 19.128a9.38 9.38 0 002.625 3.72 9.337 9.337 0 004.121-.952 4.125 4.125 0 00-
7.533-2.493M15 19.128v-.003c0-1.113-.285-2.16-.786-3.07M15 19.128v.106A12.318 12.318 0 018.624
21c-2.331 0-4.512-.645-6.374-1.766l-.001-.109a6.375 6.375 0 0111.964-3.07M12 6.375a3.375 3.375 0
11-6.75 0 3.375 3.375 0 016.75 0zm8.25 2.25a2.625 2.625 0 11-5.25 0 2.625 2.625 0 015.25 0z"
    />
  </svg>
  Adding Expenses
</a>

<a
  href="/categories"
  class="text-[#fff7e9] hover:bg-[#a31d2f] hover:text-white group flex items-center px-2 py-2
text-sm font-medium rounded-md"
>
  <!-- Heroicon name: outline/folder -->
  <svg
    class="text-[#fff7e9] group-hover:text-gray-300 mr-3 flex-shrink-0 h-6 w-6"
    xmlns="http://www.w3.org/2000/svg"
    fill="none"
    viewBox="0 0 24 24"
    stroke-width="1.5"
    stroke="currentColor"

```

```
aria-hidden="true"
>
<path
stroke-linecap="round"
stroke-linejoin="round"
d="M2.25 12.75V12A2.25 2.25 0 014.5 9.75h15A2.25 2.25 0 0121.75 12v.75m-8.69-6.44l-
2.12-2.12a1.5 1.5 0 00-1.061-.44H4.5A2.25 2.25 0 002.25 6v12a2.25 2.25 0 002.25 2.25h15A2.25 2.25 0
0021.75 18V9a2.25 2.25 0 00-2.25-2.25h-5.379a1.5 1.5 0 01-1.06-.44z"
/>
</svg>
Categories
</a>
```

```
<a
href="/reports"
class="text-[#fff7e9] hover:bg-[#a31d2f] hover:text-white group flex items-center px-2 py-2
text-sm font-medium rounded-md"
>
```

```
<!-- Heroicon name: outline/categories -->
<svg
class="text-[#fff7e9] group-hover:text-gray-300 mr-3 flex-shrink-0 h-6 w-6"
xmlns="http://www.w3.org/2000/svg"
fill="none"
viewBox="0 0 24 24"
stroke-width="1.5"
stroke="currentColor"
aria-hidden="true"
>
<path
stroke-linecap="round"
stroke-linejoin="round"
d="M6.75 3v2.25M17.25 3v2.25M3 18.75V7.5a2.25 2.25 0 012.25-2.25h13.5A2.25 2.25 0
0121 7.5v11.25m-18 0A2.25 2.25 0 005.25 21h13.5A2.25 2.25 0 0021 18.75m-18 0v-7.5A2.25 2.25 0
015.25 9h13.5A2.25 2.25 0 0121 11.25v7.5"
/>
</svg>
Reports
</svg>
```

```
<a
href="/tips"
class="text-[#fff7e9] hover:bg-[#a31d2f] hover:text-white group flex items-center px-2 py-2
text-sm font-medium rounded-md"
>
```

```
<!-- Heroicon name: outline/inbox -->
<svg
  class="text-[#fff7e9] group-hover:text-gray-300 mr-3 flex-shrink-0 h-6 w-6"
  xmlns="http://www.w3.org/2000/svg"
  fill="none"
  viewBox="0 0 24 24"
  stroke-width="1.5"
  stroke="currentColor"
  aria-hidden="true"
>
  <path
    stroke-linecap="round"
    stroke-linejoin="round"
    d="M2.25 13.5h3.86a2.25 2.25 0 012.012 1.244l.256.512a2.25 2.25 0 002.013
1.244h3.218a2.25 2.25 0 002.013-1.244l.256-.512a2.25 2.25 0 012.013-1.244h3.859m-19.5 3.38V18a2.25
2.25 0 002.25 2.25h15A2.25 2.25 0 0021.75 18v-4.162c0-.224-.034-.447-.1-.661L19.24 5.338a2.25 2.25
0 00-2.15-1.588H6.911a2.25 2.25 0 00-2.15 1.588L2.35 13.177a2.25 2.25 0 00-.1.661z"
  />
</svg>
Tips
</a>
```

```
<a
  href="/help&support"
  class="text-[#fff7e9] hover:bg-[#a31d2f] hover:text-white group flex items-center px-2 py-2
text-sm font-medium rounded-md"
>
  <!-- Heroicon name: outline/chart-bar -->
  <svg
    class="text-[#fff7e9] group-hover:text-gray-300 mr-3 flex-shrink-0 h-6 w-6"
    xmlns="http://www.w3.org/2000/svg"
    fill="none"
    viewBox="0 0 24 24"
    stroke-width="1.5"
    stroke="currentColor"
    aria-hidden="true"
  >
    <path
      stroke-linecap="round"
      stroke-linejoin="round"
      d="M3 13.125C3 12.504 3.504 12 4.125 12h2.25c.621 0 1.125.504 1.125 1.125v6.75C7.5
20.496 6.996 21 6.375 21h-2.25A1.125 1.125 0 013 19.875v-6.75zM9.75 8.625c0-.621.504-1.125 1.125-
1.125h2.25c.621 0 1.125.504 1.125 1.125v11.25c0 .621-.504 1.125-1.125 1.125h-2.25a1.125 1.125 0 01-
```

```
1.125-1.125V8.625zM16.5 4.125c0-.621.504-1.125 1.125-1.125h2.25C20.496 3 21 3.504 21
4.125v15.75c0 .621-.504 1.125-1.125 1.125h-2.25a1.125 1.125 0 01-1.125-1.125V4.125z"
    />
</svg>
    Help & Support
</a>
<a
    href="/settings"
    class="text-[#fff7e9] hover:bg-[#a31d2f] hover:text-white group flex items-center px-2 py-2
text-sm font-medium rounded-md"
    >
    <!-- Heroicon name: outline/chart-bar -->
    <svg
        class="text-[#fff7e9] group-hover:text-gray-300 mr-3 flex-shrink-0 h-6 w-6"
        xmlns="http://www.w3.org/2000/svg"
        fill="none"
        viewBox="0 0 24 24"
        stroke-width="1.5"
        stroke="currentColor"
        aria-hidden="true"
    >
        <path
            stroke-linecap="round"
            stroke-linejoin="round"
            d="M3 13.125C3 12.504 3.504 12 4.125 12h2.25c.621 0 1.125.504 1.125 1.125v6.75C7.5
20.496 6.996 21 6.375 21h-2.25A1.125 1.125 0 013 19.875v-6.75zM9.75 8.625c0-.621.504-1.125 1.125-
1.125h2.25c.621 0 1.125.504 1.125 1.125v11.25c0 .621-.504 1.125-1.125-1.125h-2.25a1.125 1.125 0 01-
1.125-1.125V8.625zM16.5 4.125c0-.621.504-1.125 1.125-1.125h2.25C20.496 3 21 3.504 21
4.125v15.75c0 .621-.504 1.125-1.125 1.125h-2.25a1.125 1.125 0 01-1.125-1.125V4.125z"
        />
    </svg>
    Settings
</a>
</nav>
</div>
</div>
</div>
<div class="flex flex-col md:pl-64">
    <div class="sticky top-0 z-10 flex h-16 flex-shrink-0 bg-[#fff7e9] shadow">
        <button
            type="button"
            class="border-r border-gray-200 px-4 text-gray-500 focus:outline-none focus:ring-2 focus:ring-
inset focus:ring-indigo-500 md:hidden"
        >
```

```
<span class="sr-only">Open sidebar</span>
<!-- Heroicon name: outline/bars-3-bottom-left -->
<svg
  class="h-6 w-6"
  xmlns="http://www.w3.org/2000/svg"
  fill="none"
  viewBox="0 0 24 24"
  stroke-width="1.5"
  stroke="currentColor"
  aria-hidden="true"
>
  <path
    stroke-linecap="round"
    stroke-linejoin="round"
    d="M3.75 6.75h16.5M3.75 12h16.5m-16.5 5.25H12"
  />
</svg>
</button>
<div class="flex flex-1 justify-between px-4">
  <div class="flex flex-1">
    <form class="flex w-full md:ml-0" action="#" method="GET">
      <label for="search-field" class="sr-only">Search</label>
      <div
        class="relative w-full text-gray-400 focus-within:text-gray-600"
      >
        <div
          class="pointer-events-none absolute inset-y-0 left-0 flex items-center"
        >
          <!-- Heroicon name: mini/magnifying-glass -->
          <svg
            class="h-5 w-5 text-[#d32840]"
            xmlns="http://www.w3.org/2000/svg"
            viewBox="0 0 20 20"
            fill="currentColor"
            aria-hidden="true"
          >
            <path
              fill-rule="evenodd"
              d="M9 3.5a5.5 5.5 0 100 100 11 5.5 5.5 0 000-11zM2 9a7 7 0 112.452 4.391H3.328A7.5 7.5 0 111.06 1.06L3.328 7.5A7 7 0 012 9z"
              clip-rule="evenodd"
            />
          </svg>
        </div>
      </div>
    </form>
  </div>
</div>
```

```

        <input
          id="search-field"
          class="block h-full w-full border-transparent py-2 pl-8 pr-3 text-gray-900 placeholder-
[#d32840] bg-[#fff7e9] focus:border-transparent focus:placeholder-gray-400 focus:outline-none
focus:ring-0 sm:text-sm"
          placeholder="Search"
          type="search"
          name="search"
        />
      </div>
    </form>
  </div>
  <div class="ml-4 flex items-center md:ml-6">
    <button
      type="button"
      class="rounded-full bg-[#fff7e9] p-1 text-gray-400 hover:text-gray-500 focus:outline-none
focus:ring-2 focus:ring-indigo-500 focus:ring-offset-2"
    >
      <span class="sr-only">View notifications</span>
      <!-- Heroicon name: outline/bell -->
      <svg
        class="h-6 w-6 text-[#d32840]"
        xmlns="http://www.w3.org/2000/svg"
        fill="none"
        viewBox="0 0 24 24"
        stroke-width="1.5"
        stroke="currentColor"
        aria-hidden="true"
      >
        <path
          stroke-linecap="round"
          stroke-linejoin="round"
          d="M14.857 17.082a23.848 23.848 0 005.454-1.31A8.967 8.967 0 0118 9.75v-.7V9A6 6 0
006 9v.75a8.967 8.967 0 01-2.312 6.022c1.733.64 3.56 1.085 5.455 1.31m5.714 0a24.255 24.255 0 01-
5.714 0m5.714 0a3 3 0 11-5.714 0"
        />
      </svg>
    </button>

    <!-- Profile dropdown -->
    <div class="relative ml-3">
      <div>
        <button
          type="button"

```

```

        class="flex max-w-xs items-center rounded-full bg-white text-sm focus:outline-none
focus:ring-2 focus:ring-indigo-500 focus:ring-offset-2"
        id="user-menu-button"
        aria-expanded="false"
        aria-haspopup="true"
    >
    <span class="sr-only">Open user menu</span>
    
</button>
</div>

```

<!--

Dropdown menu, show/hide based on menu state.

Entering: "transition ease-out duration-100"

From: "transform opacity-0 scale-95"

To: "transform opacity-100 scale-100"

Leaving: "transition ease-in duration-75"

From: "transform opacity-100 scale-100"

To: "transform opacity-0 scale-95"

-->

<!-- Active: "bg-gray-100", Not Active: "" -->

<!-- <div

```

        class="absolute right-0 z-10 mt-2 w-48 origin-top-right rounded-md bg-white py-1 shadow-lg
ring-1 ring-black ring-opacity-5 focus:outline-none"

```

```

        role="menu"

```

```

        aria-orientation="vertical"

```

```

        aria-labelledby="user-menu-button"

```

```

        tabindex="-1"
    >

```

```

    <a

```

```

        href="#"

```

```

        class="block px-4 py-2 text-sm text-gray-700"

```

```

        role="menuitem"

```

```

        tabindex="-1"

```

```

        id="user-menu-item-0"

```

```

    >Your Profile</a>

```

```

    >

```

```
<a
  href="#"
  class="block px-4 py-2 text-sm text-gray-700"
  role="menuitem"
  tabindex="-1"
  id="user-menu-item-1"
  >Settings</a
>

<a
  href="#"
  class="block px-4 py-2 text-sm text-gray-700"
  role="menuitem"
  tabindex="-1"
  id="user-menu-item-2"
  >Sign out</a
>
</div> -->
</div>
</div>
</div>
</div>

</div>
</div>
</body>
</html>
```

**GITHUB LINK:**

<https://github.com/IBM-EPBL/IBM-Project-28085-1660106526>

**PROJECT DEMO:**

[https://drive.google.com/file/d/15XdGOs4Ps8fhk5wJDA8UAmhC4UPxTEsf/view?usp=share\\_link](https://drive.google.com/file/d/15XdGOs4Ps8fhk5wJDA8UAmhC4UPxTEsf/view?usp=share_link)

**LINK:**

[https://drive.google.com/file/d/1ot0ail93JVJjsGVTS\\_GY1D7Pc7pXGDfNw/view](https://drive.google.com/file/d/1ot0ail93JVJjsGVTS_GY1D7Pc7pXGDfNw/view)