PERSONAL EXPENSE TRACKER

PROJECT REPORT

Submitted by

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BONAFIDE CERTIFICATE

Certified that this mini project report **"PERSONAL EXPENSE TRACKER APPLICATION"** is the bonafide work of **"CHANDRA KUMAR D.K (610819104004), NIKIL KUMAR R(610819104034), KARAN KUMAR B(610819104019) SANDEEP G(610819104040)"** who carried out the project under my supervision.

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PERSONAL EXPENSE TRACKER APPLICATION

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CHAPTER 1

INTRODUCTION

Personal Expense Tracker System is designed to keep a track of Income-Expense of an organisation on a day-to-day basis. This System divides the Income based on personal expenses. If exceed day's expense, system will calculate income and will provide new daily expense allowed amount. Personal expense tracking System will generate report at the end of month to show Income-Expense graph. And employees send reports to the manager for verification. Manager send final reports to administrator. Based on the final reports system predict the next month expense . It will helps to manage over all expense and income. Businesses utilize expense management software to process, pay, and audit employee-initiated expenses. The software includes capabilities for employees to input expenses for approval through a forms. Expense management software simplifies and automates a business' expense entry, eliminates paper trail, and reduces administrative effort. Expense management software allows administrators to have full visibility of and track employee use of business financial resources. Expense management software analyzes overall expenses, identifies cost-saving opportunities, and controls excessive spending."Expense Tracker" is developed to manage the dpersonal expenses in a more efficient and manageable way. By using this application. we can reduce the manual calculations of the daily expenses and keep track of the expenditure.

1.1 Abstract

The web application "Personal Expense Tracker" is developed to manage the daily expenses in a more efficient and manageable way. By using this application we can reduce the manual

calculations of the daily expenses and keep track of the expenditure. In this application, user can provide his income to calculate his total expenses per day and these results will be stored for each user. The application has the provision to predict the income and expense for the manager using data mining. In this application people can manage and limil their expenses.

1.2 Purpose

- Also known as expense manager and money manager, an expense tracker is a software or application that **helps to keep an accurate record of your money inflow and outflow**. Many people in India live on a fixed income, and they find that towards the end of the month they don't have sufficient money to meet their needs.

- When you track your spending, **you know where your money goes and you can ensure that your money is used wisely**. Tracking your expenditures also allows you to understand why you're in debt and how you got there. This will then help you design a befitting strategy of getting out of debt

- An expense is **a cost that businesses incur in running their operations**. Expenses include wages, salaries, maintenance, rent, and depreciation. Expenses are deducted from revenue to arrive at profits. Businesses are allowed to deduct certain expenses from taxes to help alleviate the tax burden and bulk up profits.

- An expense report contains a categorized and itemized list of expenses that were made on behalf of the organization. This report **helps the employer or finance team determine what money was spent, what was purchased, and how much of the expenditure is approved for reimbursement**.

CHAPTER 2

LITERATURE SURVEY

2.1 Existing problem

- **How it Actually Works**
  In existing, we need to maintain the Excel sheets, CSV etc. files for the user daily and monthly expenses. In existing, there is no as such complete solution to keep a track of its daily expenditure easily. To do so a personas to keep a log in a diary or in a computer, also all the calculations needs to be done by the user which may sometimes results in errors leading to losses.

- **Drawbacks of the Existing System**
  There can be many disadvantages of using a manual accounting system. Accounting, for any business, can be a complex undertaking. A manual accounting system requires you to understand

the accounting process in a way that may be unnecessary with a computerized accounting system. This can be an advantage or a disadvantage, depending on the person doing the bookkeeping; often, a specially trained professional is needed to ensure that accounting is done properly. Unraveling the complexity of your financial records by hand may be time consuming. Since it takes time to generate reports.

2.2 References

App Name: Spendee (Reference From IBM) (Releasedon13.11.2013)

Spendee is a free money tracker app for budget planning and money management. It is useful to someone who just wants to track daily expenses, instead of being confused by the complicated expenses book keeping.

Platform to help you make more educated decisions.

Budget App–Expense Tracker (Releasedon04.05.2020)

Budget app is a expense tracker app which tracks and records your **expenses** with a help of a balance calculator.

Wallet: Budget Expense Tracker:(Releasedon21.4.2011)

Wallet is all-in-one personal finance app which has features of budget planner, bill manager, and money saver in it.

Expense Tracker:(Releasedon2022)

Daily Expense Tracker System is designed to keep a track of Income-Expense of an organisation on a dayto-day basis. This System divides the Income based on daily expenses. If exceed day's expense, system will calculate income and will provide new daily expense allowed amount

Online Income and Expense Tracker:(Releasedon2019)

It is a web application which is helpful to manage out income and expense as a daily or periodically or else whenever we want to remind and acts as an indicator or reminder example in the fastest world which we can't able to remember what are the things we have to do for the end of month and what are the payments we have to pay for the particular month.

Student Expense Tracker:(Releasedon2022)

This is an android application which is used to track the daily expense of a student. It is like a digital diary that keeps record of expenses done by student. The application keeps track of money spent and the earnings both of the student on day-to-day basis. It also has the feature that it gives warning messages if we are exceeding on our expenses and hence, we can limit our expenses and avoid overspending. If you spend less money than the daily expense allowed amount, the money left after spending is added into user's savings.

2.3 Problem Statement Definition

Create a problem statement to understand your customer's point of view. The Customer Problem Statement template helps you focus on what matters to create experiences people will love. A well-articulated customer problem statement allows you and your team to find the ideal solution for the challenges your customers face. Throughout the process, you'll also be able to empathize with your customers, which helps you better understand how they perceive your product or service.

CHAPTER3
IDEATION & PROPOSED SOLUTION

3.1 Empathy Map Canvas:

An empathy map is a simple, easy-to-digest visual that captures knowledge about a user's behaviors and attitudes.

It is a useful tool to helps teams better understand their users.
Creating an effective solution requires understanding the true problem and the person who is experiencing it. The exercise of creating the map helps participants consider things from the user's perspective along with his or her goals and challenges.

3.2 Ideation & Brainstorming:

Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich number of creative solutions.

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

Step-1: Team Gathering, Collaboration and Select the Problem Statement
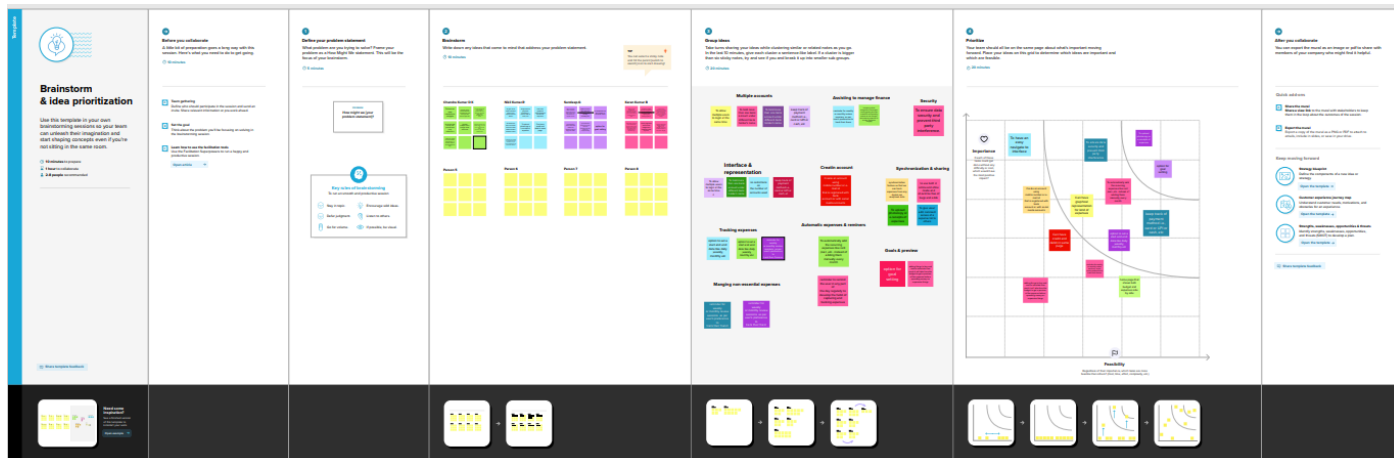
3.3 Proposed Solution:

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

Project team shall fill the following information in the proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	It's about being aware of expenses in day-to-day life. Often people lose track of where and how much was spent in the long run, ultimately have to live while sustaining the little money they have left for their essential needs. There is a need for people to track and monitor their expense regularly and doing this through paper and pen or in excel is not that completely feasible.
2.	Idea / Solution description	The main idea is to enable users to set limits for their Expenses and Alert them through Mail When the Limit Exceeds.
3.	Novelty / Uniqueness	Detailed analyses of what and how the user spends, and all the spending habits can be tracked and accordingly adjusted. The weekly, monthly, and year-wise comparison of expenditures will be and will let the user know **through Alerts When the limit exceeds**. When you track your expenses, you are taking control of your finances. It lets you regulate spending impulses and eliminate worthless spending, thereby avoiding debt. At every point, you will be aware about how much money you are left with.

4.	Social Impact / Customer Satisfaction	It can help you to * Track and prioritize spending * Avoid unnecessary spending habits *Take Control of your Finances
5.	Business Model (Revenue Model)	Through our application the revenue for the company will be in the form of subscription plans. Makes the user know about what are all the good things and trending ways to invest money safely and securely.
6.	Scalability of the Solution	The system can handle a large number of users since it is based on the cloud system. It is very easy to store and retrieve data from the cloud rather than getting it from a database.

3.4 Problem Solution fit:

Problem – Solution Fit Template: The Problem-Solution Fit simply means that you have found a problem with your customer and that the solution you have realized for it actually solves the customer's problem. It helps entrepreneurs, marketers and corporate innovators identify behavioral patterns and recognize what would work and why

Purpose:

- ☐ Solve complex problems in a way that fits the state of your customers.
- ☐ Succeed faster and increase your solution adoption by tapping into existing mediums and channels of behaviour.
- ☐ Sharpen your communication and marketing strategy with the right triggers and messaging.
- ☐ Increase touch-points with your company by finding the right problem behaviour fit and building trust by solving frequent annoyances, or urgent or costly problems.
- ☐ Understand the existing situation in order to improve it for your target group.

Project Title : Personal Expense Tracker Application	Problem -Solution Fit Template	Team ID: PNT2022TMI29949
1. CUSTOMER SEGMENT(S) CS Who is your customer? i.e. working parents of 0-5 y.o. kids Customers use different methods to track their income and expense by using paper and pen, spreadsheets and budgeting apps	**6. CUSTOMER CONSTRAINTS** CC 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. This constaints that the customer face while hsing this applicatin is used in a low cost and easy way.	**5. AVAILABLE SOLUTIONS** AS 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 The solution which we have proposed are if the expense exceeded than specified limit, the application will show you an alert message
2. JOBS-TO-BE-DONE / PROBLEMS J&P Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides. Customers can able to track their income and expenses easily	**9. PROBLEM ROOT CAUSE** RC 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. Due to unawareness there is no right on software so that the customer finds hard to track their expense	**7. BEHAVIOUR** BE 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) They can able to make decision whether they can avoid some unwanted expenses.
3. TRIGGERS Some of the triggers are advertised in the television for the information of the experts. **4. EMOTIONS: BEFORE / AFTER** With traditional tracker system customers fid difficult to track their expenses but after using personal expense they their expense easily	**10. YOUR SOLUTION** This application tracks your every expenses anywhere and anytime without using the paper work.Just click and enter your expenditure. To avoid data loss, quick settlements and reduce human error.	**8.CHANNELS of BEHAVIOUR** **8.1 ONLINE** With the help of variouis online channel customers track their expenses regularly. **8.2 OFFLINE** Personal Expense Tracker Application enables customers to reduce spending their expenses for unwanted things

Left margin labels: Define CS, fit into CC | Focus on J&P tap into BE, understand RC | Identify strong TR & EM

Right margin labels: Explore AS, differentiate | Focus on J&P tap into BE, understand RC | Identify strong TR & EM

CHAPTER 4
REQUIREMENT ANALYSIS

4.1 Functional requirement:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Form for collecting details
FR-2	Login	Enter username and password
FR-3	Calendar	Personal expense tracker application must allow user to add the data to their expenses.
FR-4	Expense Tracker	This application will send alert message to the user if the limit exceeds.
FR-5	Report generation	The monthly report for the budgets will be sent through mail
FR-6	Category	This application shall allow users to add categories of their expenses.

4.2 Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Helps to keep an accurate record of your income and expenses.
NFR-2	Security	Budget tracking apps are considered very safe from those who commit cyber crimes.
NFR-3	Reliability	Each data record is stored on a well built efficient database schema. There is no risk of data loss.
NFR-4	Performance	The types of expense are categories along with an option. Throughput of the system is increased due to light weight database support.
NFR-5	Availability	The application must have a 100% up-time.
NFR-6	Scalability	The ability to appropriately handle increasing demands.

CHAPTER 5
PROJECT DESIGN

5.1 Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can graphically depict the right amount of the system requirement. It shows how data enters and leaves the system, what changes the information, and where data is stored.
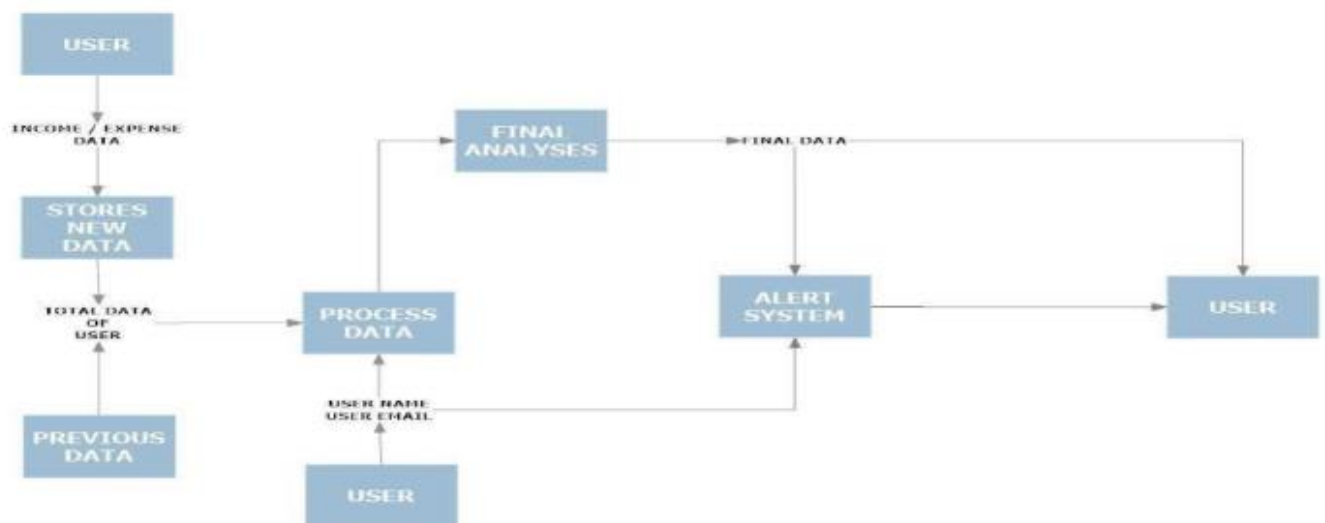
5.2 Solution & Technical Architecture
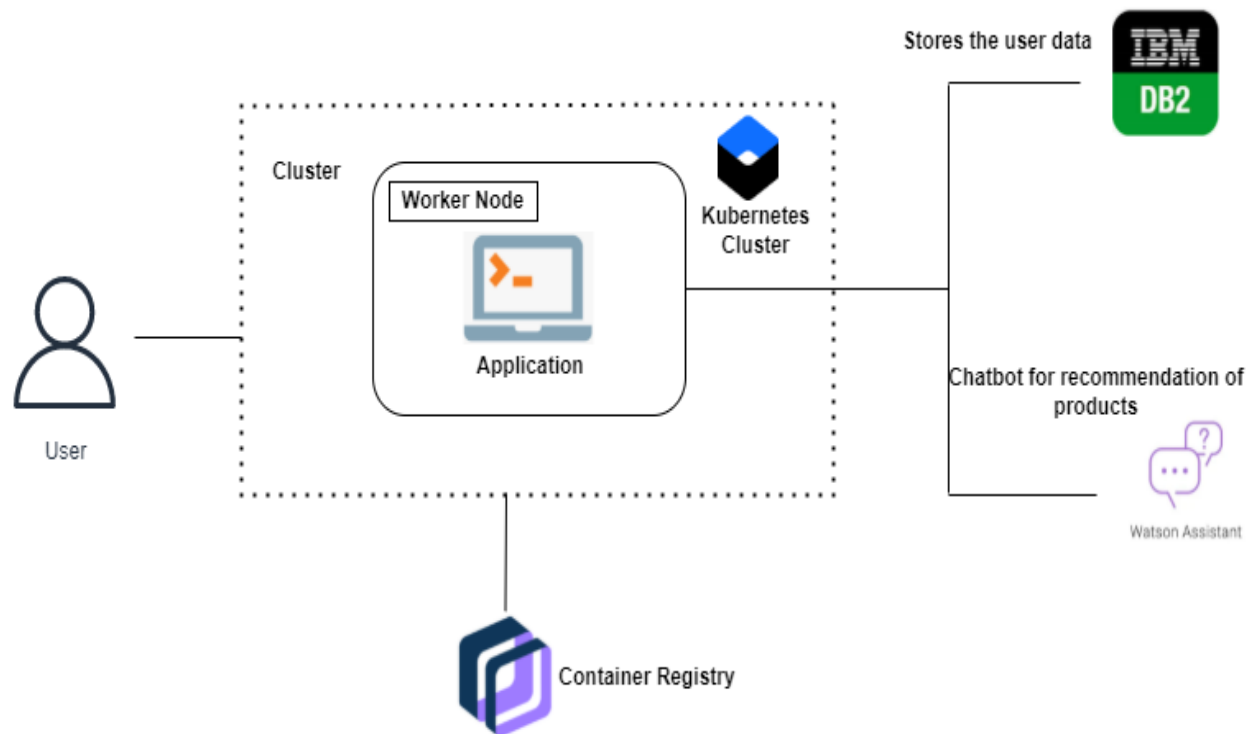
5.3 User Stories

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 (Mobile user & web user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email & click confirm	High	
		USN- 3	As a user, I can register for the application through Google	I can register & access the dashboard with Google Login	Low	
	Login	USN - 4	As a user, I can log into the application by entering email & password	I can access the application	High	
	Dashboard	USN - 5	As a user I can enter my income and expenditure details.	I can view my daily expenses	High	
Customer Care Executive		USN – 6	As a customer care executive I can solve the log in issues and other issues of the application.	I can provide support or solution at any time 24*7	Medium	
Administrator	Application	USN - 7	As a administrator I can upgrade or update the application.	I can fix the bug which arises for the customers and users of the application	Medium	

CHAPTER 6
PROJECT PLANNING & SCHEDULING

6.1 Sprint Planning & Estimation:

Use the below template to create product backlog and sprint schedule

Project Planning Phase
Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Date	3 November 2022
Team ID	PNT2022TMID29949
Project Name	Personal Expense Tracker Application
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Setting the required environment	USN-1	Gathering information for the user .	2	High	Chandra Kumar D.K Nikil kumar R Sandeep G Karan kumar B
Sprint-1		USN-2	Creating account in ibm cloud,docker,kubernets.	1	High	Chandra Kumar D.K Nikil kumar R Sandeep G Karan kumar B
Sprint-1		USN-3	Creating container registery.	2	High	Chandra Kumar D.K Nikil kumar R Sandeep G Karan kumar B
Sprint-1		USN-4	Creating the ibm db 2 to store the data of the user.	2	Medium	Chandra Kumar D.K Nikil kumar R Sandeep G Karan kumar B
Sprint-1		USN-5	Creating simple flask application .	1	Low	Chandra Kumar D.K Nikil kumar R Sandeep G Karan kumar B
Sprint-2	Login	USN-6	As a user, I can log into the application by entering email & password	2	High	Chandra kumar D.K Nikil kumar R

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
						Sandeep G Karankumar B
Sprint-2		USN-7	As a user, I can log into the application by entering GMAIL.	2	Medium	Chandra Kumar D.K Nikil kumar R Sandeep G Karan kumar B
Sprint-2		USN-8	As a user, I can log into the application by entering facebook.	1	Low	Chandra Kumar D.K Nikil kumar R Sandeep G Karan kumar B
Sprint-2	Mail confirmation	USN-9	As a user, I will receive confirmation mail once I logged into it.	2	High	Chandra Kumar D.K Nikil kumar R Sandeep G Karan kumar B
Sprint-2		USN-10	As a user, I can log into application by entering my login credentials.	2	High	Chandra Kumar D.K Nikil kumar R Sandeep G Karan kumar B
Sprint-3	Local host	USN-11	Deploying my application in my local host by setting up the system environment.	2	High	Chandra Kumar D.K Nikil kumar R Sandeep G Karan kumar B
Sprint-4	IBM cloud	USN-12	Deploying my application in the ibm cloud by setting up the cloud environment.	2	High	Chandra Kumar D.K Nikil kumar R Sandeep G Karan kumar B

6.2 Sprint Delivery Schedule:

ProjectTracker, Velocity:

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	2 Nov 2022
Sprint-4	20	6 Days	13 Nov 2022	19 Nov 2022	20	19 Nov 2022

Velocity:

Imaginewehavea10-daysprintduration,andthevelocityoftheteamis20(pointspersprint).Let'scalculatetheteam'saveragevelocity(AV)periterationunit(storypointsperday)

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

6.2 Milestone and Activity List

Sprint 1:

Burndown Chart

Sprint 2:

Burndown Chart

Sprint 3:

Burndown Chart

Sprint 4:

Burndown Chart

6.2 Milestone and Activity List

TITLE	DESCRIPTION	DATE
Literature Survey & Information Gathering	Literature survey on the selected project & gatheringinformation by referring the,technical papers, research publications etc.	**2 September 2022**
Prepare Empathy Map	Prepare Empathy Map Canvasto capture the user Pains & Gains, Prepare list of problemstatements	**10 September 2022**
Ideation Brain Storming	List the by organizing thebrainstorming session andprioritize the top 3 ideas based on the feasibility &importance.	**15 September 2022**
Proposed Solution	Prepare the proposed solutiondocument, which includes the novelty, feasibility of idea,business model, social impact, scalability of solution, etc.	**19 September 2022**
Problem Solution Fit	Prepare problem solution fitdocument	**19 September2022**
Solution Architecture	Prepare solution architecturedocument.	**6 October 2022**
Customer Journey	Prepare the customer journeymaps to	**7 October 2022**

	understand the user interactions & experiences with the application (entry to exit).	
Solution Requirement	Prepare the functional requirement document	**15 October 2022**
Data Flow Diagrams	Draw the data flow diagrams and submit for review.	**15 October 2022**
Technology Architecture	Prepare the technology architecture diagram.	**15 October 2022**
Prepare Milestone &Activity List	Prepare the milestones & activity list of the project.	**03 November 2022**
Project Development – Delivery of Sprint-1, 2, 3 & 4	Develop & submit the developed code by testing it.	**IN PROGRESS..**

CHAPTER 7
CODING & SOLUTION

7.1 Feature 1 (Source Code)
Home:

```html
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">


  <link rel="stylesheet" href="..\static\css\home.css">
  <title>Personal Expense App</title>
</head>

<body>
  <!-- Header -->
  <section id="header">
    <div class="header container">
      <div class="nav-bar">
        <div class="brand">
          <a href="#hero">
            <h1><span>M</span>y <span>B</span>udget</h1>
          </a>
        </div>
        <div class="nav-list">
          <div class="hamburger">
            <div class="bar"></div>
          </div>
          <ul>
            <li><a href="#hero" data-after="Home">Home</a></li>
            <li><a href="#services" data-after="Service">Services</a></li>

            <li><a href="#about" data-after="About">About</a></li>
            <li><a href="#contact" data-after="Contact">Contact</a></li>
            <LI><a href="login.html" data-after="Login">-Login-</a></LI>
          </ul>
        </div>
      </div>
    </div>
```

```html
    </section>
    <!-- End Header -->


    <!-- Hero Section  -->
    <section id="hero">
      <div class="hero container">
        <div>
          <h1>Hello, <span></span></h1>
          <h1>Welcome To <span></span></h1>
          <h1>Expense Tracker Web application <span></span></h1>
          <a href="signup.html" type="button" class="cta">Sign-up</a>
        </div>
      </div>
    </section>
    <!-- End Hero Section  -->

    <!-- Service Section -->
    <section id="services">
      <div class="services container">
        <div class="service-top">
          <h1 class="section-title">Serv<span>i</span>ces</h1>
          <p>MyBudget provides a many services  to the customer and industries.
Financial solutions to meet your needs whatever your money goals,there is a
MyBudget solution to help you reach them </p>
        </div>
        <div class="service-bottom">
          <div class="service-item">
            <div class="icon"><img
src="https://img.icons8.com/bubbles/100/000000/services.png" /></div>
            <h2>Personal Expenses</h2>
            <p>Budgeting is more than paying bills and setting aside savings.it's
about creating a money plan for the life you want</p>
          </div>
          <div class="service-item">
            <div class="icon"><img
src="https://img.icons8.com/bubbles/100/000000/services.png" /></div>
            <h2>Investments</h2>
            <p>Follow your investments and bring your portfolio into focus with
support for stocks,bonds,CDs,mutual funds and more</p>
          </div>
          <div class="service-item">
            <div class="icon"><img
src="https://img.icons8.com/bubbles/100/000000/services.png" /></div>
            <h2>Online Banking</h2>
            <p>MyBudget application can automatically download transactions and
send payments online from many financial institutions</p>
          </div>
          <div class="service-item">
```
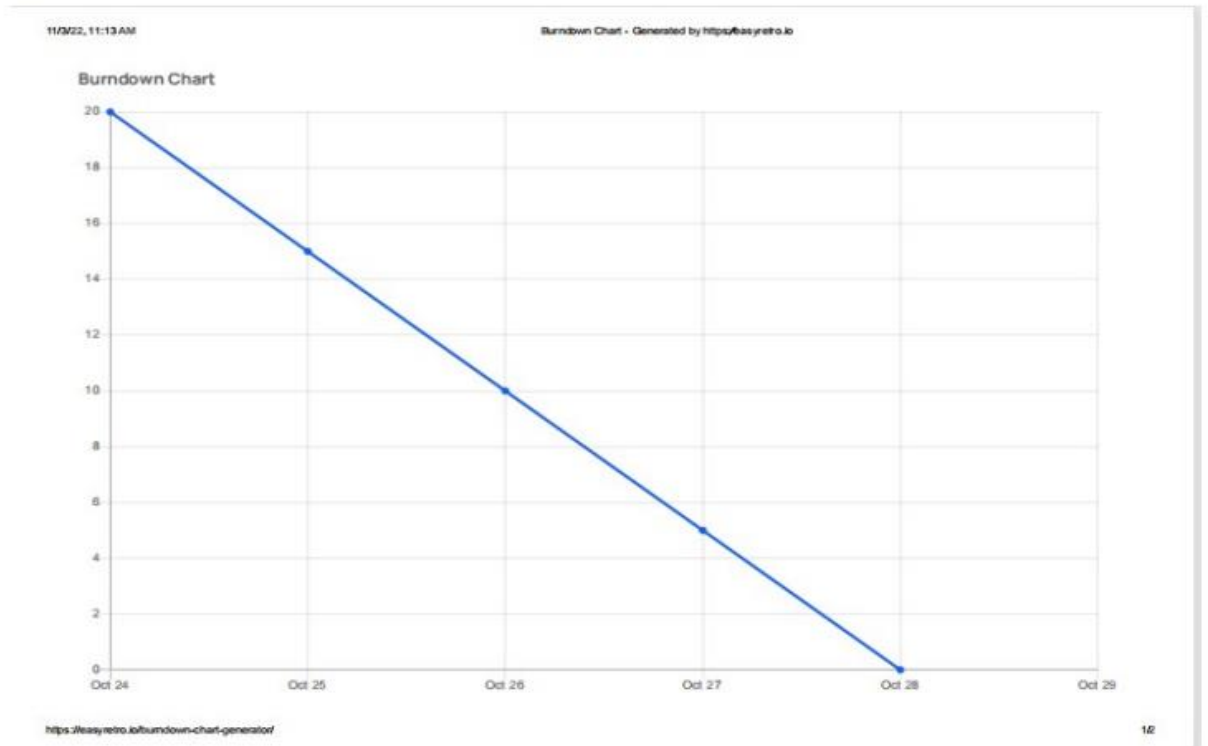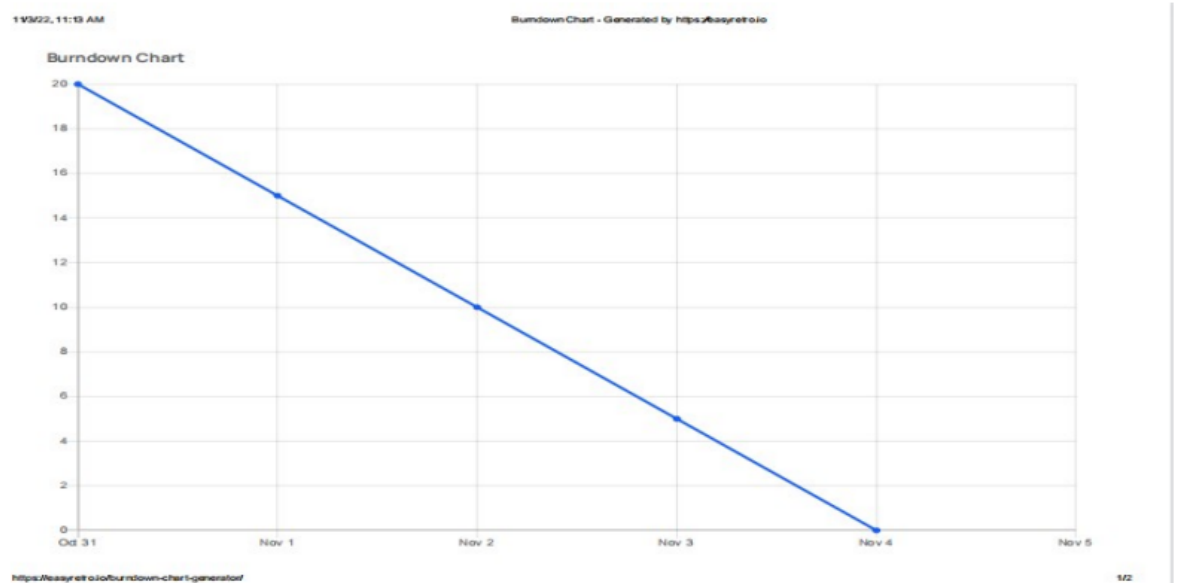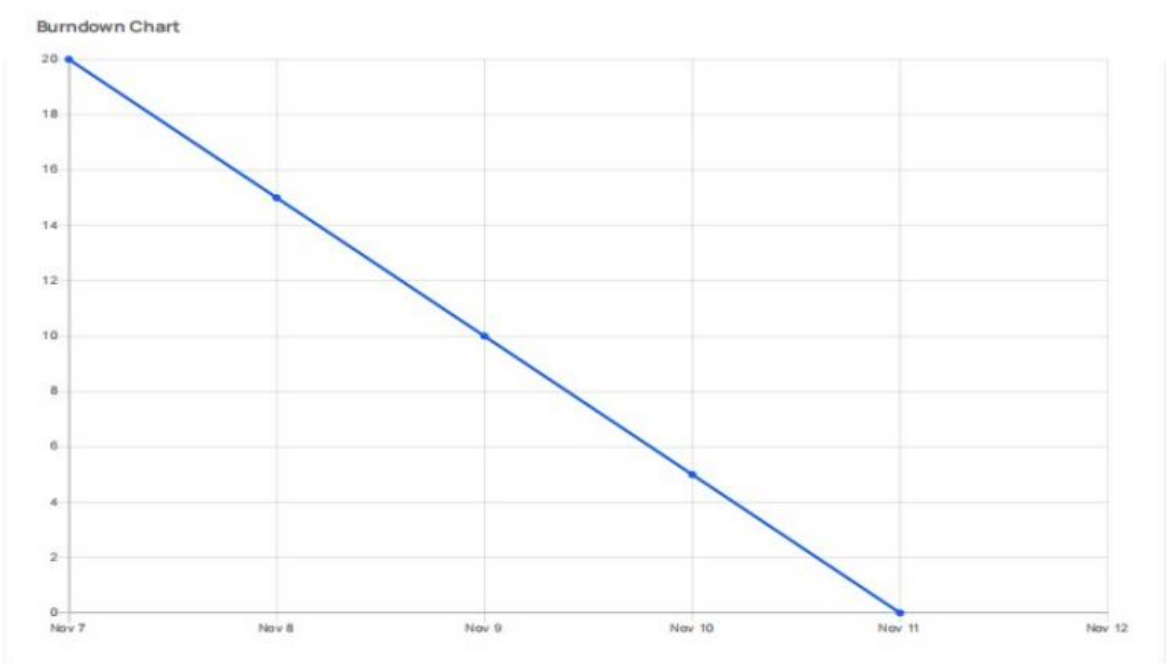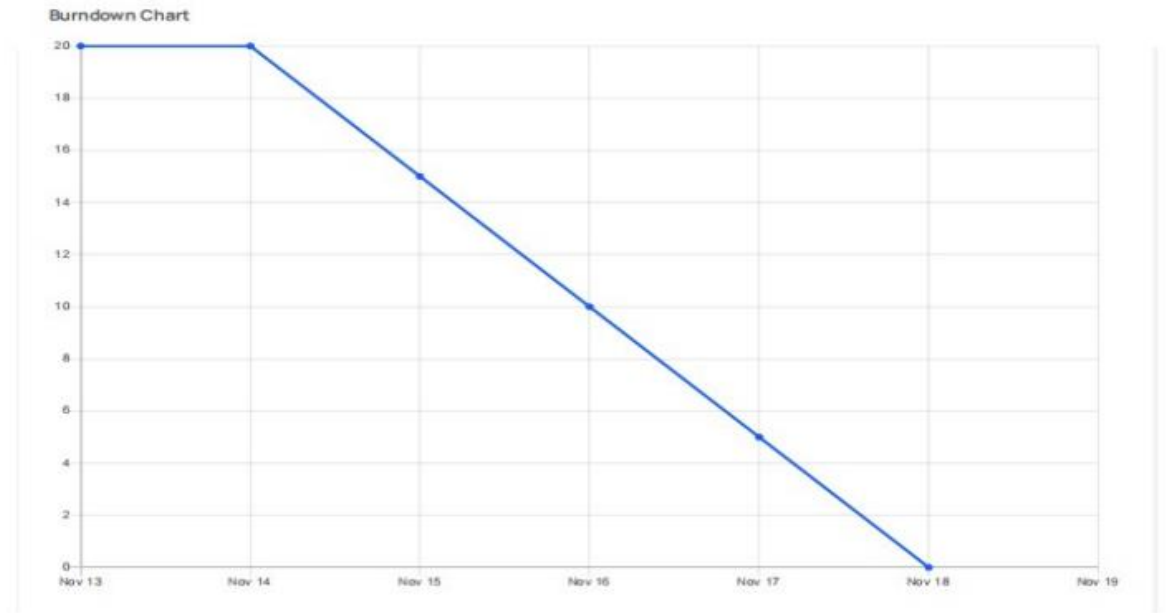
```html
            <div class="icon"><img
src="https://img.icons8.com/bubbles/100/000000/services.png" /></div>
            <h2>Financial Life</h2>
            <p>Get your Complete financial picture at a glance. With MyBudget
application you can view your all the financial activities
            </p>
        </div>
      </div>
    </div>
  </section>
  <!-- End Service Section -->

 <!-- About Section -->
  <section id="about">
    <div class="about container">
      <div class="col-left">
        <div class="about-img">
          <img src="..\static\images\img-2.jpg" alt="img">
          <div><h2>MyBudget ceo,Shridhar </h2></div>
        </div>
      </div>

      <div class="col-right">
        <h1 class="section-title">About <span>Us</span></h1>
        <h2>Financial Solution</h2>
        <p>MyBudget financial solution  is one among Leading financial company
from many years.MyBudget provides a many services  to the customer and
industries. Financial solutions to meet your needs whatever your money
goals,there is a MyBudget solution to help you reach them.u can Contact our
service center for further information and also follow our social media for
update on new services </p>
        <a href="#footer" class="cta">Follow Us</a>

      </div>
    </div>
  </section>
  <!-- End About Section -->

  <!-- Contact Section -->
  <section id="contact">
    <div class="contact container">
      <div>
        <h1 class="section-title">Contact <span>info</span></h1>
      </div>
      <div class="contact-items">
        <div class="contact-item">
          <div class="icon"><img
src="https://img.icons8.com/bubbles/100/000000/phone.png" /></div>
          <div class="contact-info">
            <h1>Phone</h1>
```

```html
          <h2>+91 9345809864</h2>
          <h2>+91 9944231241</h2>
        </div>
      </div>
      <div class="contact-item">
        <div class="icon"><img
src="https://img.icons8.com/bubbles/100/000000/new-post.png" /></div>
        <div class="contact-info">
          <h1>Email</h1>
          <h2>pmcpersonal@gmail.com</h2>
          <h2>expenxedoubt@gmail.com</h2>
        </div>
      </div>
      <div class="contact-item">
        <div class="icon"><img
src="https://img.icons8.com/bubbles/100/000000/map-marker.png" /></div>
        <div class="contact-info">
          <h1>Address</h1>
          <h2>PMC tech,Hosur,Tamilnadu,India</h2>
        </div>
      </div>
    </div>
  </div>
</section>
<!-- End Contact Section -->

<!-- Footer -->
<section id="footer">
  <div class="footer container">
    <div class="brand">
      <h1><span>M</span>y <span>B</span>udget</h1>
    </div>
    <h2>Your Complete Financial Solution</h2>
    <div class="social-icon">
      <div class="social-item">
        <a href="#"><img
src="https://img.icons8.com/bubbles/100/000000/facebook-new.png" /></a>
      </div>
      <div class="social-item">
        <a href="#"><img
src="https://img.icons8.com/bubbles/100/000000/instagram-new.png" /></a>
      </div>
      <div class="social-item">
        <a href="#"><img
src="https://img.icons8.com/bubbles/100/000000/twitter.png" /></a>
      </div>
      <div class="social-item">
        <a href="#"><img
src="https://img.icons8.com/bubbles/100/000000/behance.png" /></a>
      </div>
```

```html
      </div>
      <p>Copyright © 2021 Shridhar . All rights reserved</p>
    </div>
  </section>
  <!-- End Footer -->
  <script src="..\static\js\home.js"></script>
</body>

</html>
```

Sign Up:

```html
<html>
<head>
<meta charset="utf-8">
<title>Sign-up</title>
<link href="..\static\css\signup.css" rel="stylesheet">
<script src="https://kit.fontawesome.com/a81368914c.js"></script>
<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css"
integrity="sha384-
Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"
crossorigin="anonymous">
</head>
<body>
 <!--container-------------------->
<div class="container" >
 <!--sign-up-box-container--->
<div class="sign-up">

    <div id="png"><a href="home.html" title="HOME"><img style="width:55px;
height:55px ; " src="..\static\images\home-page.png"></a></div>
 <!--heading-->
 <form action="/register" method="post">
    <div class="msg"></div>
<h1 class="heading">Hello,Friend</h1>
 <!--name-box-->
<div class="text">
<img height="20px" src="..\static\images\user.png" />
<input placeholder="Name" type="text" name="username"/>
</div>
 <!--Email-box-->
<div class="text">
<img height="12px" src="..\static\images/email.png" />
<input placeholder=" Example@gmail.com" type="email" name="email"" />
</div>
 <!--Password-box-->
<div class="text">
<img height="20px" src="..\static\images\password.png" />
<input placeholder=" Password" type="password" name="password"/>
```

```html
    </div>
<div class="or"><b>OR</b></div>
<div class="s1"><p><b>Sign-up with</b></p></div>

 <div>
    <ul>
        <li><a href="#"><i class="fab fa-facebook" aria-
hidden="true"></i></a></li>
        <li><a href="#"><i class="fab fa-twitter" aria-
hidden="true"></i></a></li>
        <li><a href="#"><i class="fab fa-google"  aria-
hidden="true"></i></a></li>
        <li><a href="#"><i class="fab fa-linkedin" aria-
hidden="true"></i></a></li>
        <li><a href="#"><i class="fab fa-instagram" aria-
hidden="true"></i></a></li>
    </ul>

</div>
<!--trems-->

<div class="trems">
    <input class="check" type="checkbox" required/>
 <p class="conditions">I read and agree to <a href="#">Trems &amp;
Conditions</a></p>
 </div>
<!--button-->
<div class="toop">
<button type="submit" class="btn btn-primary" >CREATE ACCOUNT</button> </div>

</form>
<!--sign-in-->
<div class="t"><p class="conditions" id="p3">Already have an account <a
href="login.html">Login</a></p> </div></div>
 </div>
<!--text-container-->
<div class="text-container">

 <h1 style="color: #87CEEB;font-family:cursive;">Glad to see you</h1>

 <div class="diag"><img class="fig1" width="100%" height="105%"
src="..\static\images\Inkeddia_LI.jpg"></div>
<div class="para"> <b>Welcome</b>,Please Fill in the blanks for sign up</div>

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

Login:

```html
<!DOCTYPE html>
<html>
<head>
    <title>Login Form</title>
    <link rel="stylesheet" type="text/css" href="..\static\css\login.css">
    <link
href="https://fonts.googleapis.com/css?family=Poppins:600&display=swap"
rel="stylesheet">
    <script src="https://kit.fontawesome.com/a81368914c.js"></script>
    <meta name="viewport" content="width=device-width, initial-scale=1">
</head>
<body >
    <img class="wave" src="..\static\images\wave.png">
    <div class="container">

        <div class="img">
            <div id="png"><a href="home.html" title="HOME"><img
style="width:75px; height:75px ; " src="..\static\images\home-
page.png"></a></div>
            <img src="..\static\images\bg.svg">
        </div>


        <div class="login-content">

            <form action='/login' method="POST">
                <div class="msg"></div>
                <img src="..\static\images\avatar.svg">
                <h2 class="title">Welcome</h2>
                <div class="input-div one">
                    <div class="i">
                        <i class="fas fa-user"></i>
                    </div>
                    <div class="div">
                        <h5>Username</h5>
                        <input type="text" name="username" class="input"
required>
                    </div>
                </div>
                <div class="input-div pass">
                    <div class="i">
                        <i class="fas fa-lock"></i>
                    </div>
                    <div class="div">
                        <h5>Password</h5>
                        <input type="password"  name="password" class="input"
required>
                    </div>
```

```html
                </div>
                <a href="#">Forgot Password?</a>
                <input type="submit" class="btn" value="Login">
                <span>OR</span>

                <div><b>Login with</b></div>
                <div>
                    <ul>
                        <li><a href="#"><i class="fab fa-facebook"
></i></a></li>

                        <li><a href="#"><i class="fab fa-twitter" ></i></a></li>
                        <li><a href="#"><i class="fab fa-google"  ></i></a></li>
                        <li><a href="#"><i class="fab fa-linkedin"
></i></a></li>

                        <li><a href="#"><i class="fab fa-instagram"
></i></a></li>
                    </ul>

                </div>
                <div class="app" ><b>Don't have an account?</b><a id="app1"
href="\signup.html">REGISTER Now</a></div>
            </form>

        </div>

    </div>

    <script type="text/javascript" src="..\static\js\login.js"></script>
</body>
</html>
```

Base:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/css/bootstrap.min.css"
integrity="sha384-
TX8t27EcRE3e/ihU7zmQxVncDAy5uIKz4rEkgIXeMed4M0jlfIDPvg6uqKI2xXr2"
crossorigin="anonymous">
    <script
src="https://cdn.jsdelivr.net/npm/chart.js@3.2.1/dist/chart.min.js"></script>
    <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"
integrity="sha384-
DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
crossorigin="anonymous"></script>

<script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"
```

```html
    integrity="sha384-
9/reFTGAW83EW2RDu2S0VKaIzap3H66lZH81PoYlFhbGU+6BZp6G7niu735Sk7lN"
crossorigin="anonymous"></script>

<script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"
integrity="sha384-
B4gt1jrGC7Jh4AgTPSdUtOBvfO8shuf57BaghqFfPlYxofvL8/KUEfYiJOMMV+rV"
crossorigin="anonymous"></script>


<link rel="stylesheet"
href="https://pro.fontawesome.com/releases/v5.10.0/css/all.css"
integrity="sha384-
AYmEC3Yw5cVb3ZcuHtOA93w35dYTsvhLPVnYs9eStHfGJvOvKxVfELGroGkvsg+p"
crossorigin="anonymous"/>

    <title>Document</title>
</head>
<body>
  <nav class="navbar sticky-top  navbar-expand-lg navbar-light"
style="background-color: #e3f2fd;">
    <a class="navbar-brand" href="#">MyBudget</a>
    <button class="navbar-toggler" type="button" data-toggle="collapse" data-
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">
      <ul class="navbar-nav mr-auto">
        <li class="nav-item active">
          <a class="nav-link" href="home.html">Home <span class="sr-
only">(current)</span></a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="add.html">Add</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="display.html">History</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="limit.html">LIMIT</a>
        </li>
        <li class="nav-item dropdown">
          <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown"
role="button" data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">
            Report
          </a>
          <div class="dropdown-menu" aria-labelledby="navbarDropdown">
```

```html
                <a class="dropdown-item" href="today.html">TODAY</a>
                <a class="dropdown-item" href="month.html">Month</a>

                <a class="dropdown-item" href="year.html">Year</a>
            </div>
          </li>
        </ul>
          <div class="form-inline my-5 my-lg-1" style="position: absolute; left:
1250px;">
          <ul class="navbar-nav mr-auto "  >  <li class="nav-item dropdown btn-group
open">
            <a class="btn btn-primary" href="#"><i class="fa fa-user fa-fw"></i>User
</a>
       <a class="btn btn-primary dropdown-toggle "href="#" id="navbarDropdown"  data-
toggle="dropdown" aria-haspopup="true" aria-expanded="false">

     </a>

              <div class="dropdown-menu" aria-labelledby="navbarDropdown">
                <a class="dropdown-item" href="#">Profile</a>
                <a class="dropdown-item" href="#">Settings</a>
                <a class="dropdown-item" href="#">Contact-Us</a>
                <div class="dropdown-divider"></div>
                <a class="dropdown-item" style="color: darkred;"
href="home.html">Log-Out <i class="fa fa-sign-out" aria-hidden="true"></i></a>
            </div>
          </li>



         <div ">
          </ul>
         </div>


       </div>
      </nav>


</body>
</html>
```

Display:

```html
<div class="container ">
    <h3 class="mt-3">EXPENSES</h3>
  <div class="row">

        <div class="col-md-12">
            <div class="card shadow-sm mb-2 bg-white rounded"></div>
            <div class="card-body">
                <div class="row">
                    <div class="col-md-2">
```

```html
                              <span class="btn btn-outline-dark">{{row[2]}}</span>
</div>
                        <div class="col-md-2 mt-3"><H6>{{row[3]}}</H6></div>
                        <div class="col-md-2 mt-3" > ₹<span style=" color: rgb(255,
0, 0) "> {{row[4]}} </div>
                        <div class="col-md-2 mt-3">
                              <span class="badge badge-pill badge-
info">{{row[5]}}</span>
                        </div>

                        <div class="col-md-2 mt-3">
                              <span class="badge badge-primary">{{row[6]}}</span>
                        </div>
                        <div class="col-md-1 mt-3">
                              <a href="/edit/{{row[0]}}  "   class="btn btn-sm
btn-success">Edit</a>
                        </div>


                        <div class="col-md-1 mt-3">
                                <a href="/delete/{{row[0]}}" class="btn btn-sm
btnDelete btn-success">Delete</a>
                           </div>


                  </div>
            </div>

        </div>
    </div>
    <!--when no DATA-Found-->
    {% else %}
    <div class="card shadow-sm mb-2 bg-white rounded"></div>
    <div class="card-body">
    <div style="text-align: center ; font-family: monospace; color:red ;
"><h5><a  href="add.html"> ADD-DATA </a> to Display</h3></div>
      <img  width=60% src="../static/images/not-found.png">
     </div>
    <div class="row">
        <div class="col-md-6">
            <h3 class="mt-5">Expense Breakdown</h3>

            <div class="card shadow mb-2 bg-white rounded-bottom">
                <div class="card-body ">
                <div class="row">
                    <div class="col-md-6">Food</div>
                    <div id="tfood" class="col-md-6">  {{ t_food}}   </div>
                </div>
                </div>
```

```html
        </div>

        <div class="card shadow mb-2 bg-white rounded">
         <div class="card-body">
         <div class="row">
             <div class="col-md-6">Entertainment</div>
             <div id="tentertainment" class="col-md-6"> {{
t_entertainment}}   </div>
            </div>
            </div>
        </div>


        <div class="card shadow mb-2 bg-white rounded">
            <div class="card-body">
            <div class="row">
                <div class="col-md-6">Business</div>
                <div id="tbusiness" class="col-md-6"> {{t_business}}   </div>
             </div>
            </div>
        </div>


        <div class="card shadow mb-2 bg-white rounded">
            <div class="card-body">
            <div class="row">
                <div  class="col-md-6">Rent</div>
                <div id="trent" class="col-md-6"> {{  t_rent }}   </div>
             </div>
            </div>
        </div>


        <div class="card shadow mb-2 bg-white rounded">
            <div class="card-body">
            <div class="row">
                <div class="col-md-6">EMI</div>
                <div id="temi"  class="col-md-6">{{ t_EMI }}   </div>
             </div>
            </div>
        </div>


        <div class="card shadow mb-2 bg-white rounded">
            <div class="card-body">
            <div class="row">
                <div class="col-md-6">Other</div>
                <div id="tother" class="col-md-6"> {{ t_other}}</div>
             </div>
            </div>
```

```html
            </div>

            <div class="card shadow mb-2 btn-outline-danger rounded-pill">
                <div class="card-body">
                <div class="row">
                    <div class="col-md-6">Total</div>
                    <div class="col-md-6">₹ {{total}}  </div>
                 </div>
                </div>
            </div>


        </div>
        <div class="col-md-6">
        <canvas id="myChart" width="400" height="400"></canvas>
        <script>
            let food = document.getElementById('tfood').innerHTML
            let entertainment =
document.getElementById('tentertainment').innerHTML
            let business = document.getElementById('tbusiness').innerHTML
            let rent = document.getElementById('trent').innerHTML
            let emi = document.getElementById('temi').innerHTML
            let other = document.getElementById('tother').innerHTML
        var ctx = document.getElementById('myChart').getContext('2d');
        var myChart = new Chart(ctx, {
            type: 'doughnut',
            data: {
                labels: ['Food', 'Entertainment', 'Business', 'Rent', 'EMI',
'Other'],

                datasets: [{
                    label: 'Expenses Chart',
                    data: [food, entertainment, business, rent, emi, other],
                    backgroundColor: [
                    'rgb(255, 99, 132)',
                    'rgb(0, 0, 0)',
                    'rgb(255, 205, 86)',
                    'rgb(201, 203, 207)',
                        'rgb(54, 162, 235)',
                         'rgb(215, 159, 64)'
                    ],

                }]
            },
            options: {
                responsive: true,
                plugins: {
        legend: {
          position: 'bottom',
        },
        title: {
          display: true,
```

```
            text: 'EXPENSE BREAKDOWN'
        }
    }
            }
        });
 </script>
        </div>
    </div>
</div>
```

Edit:

```html
<div class="container">
    <div class="row">
        <div class="col-md-6">
            <h3>Edit Expense</h3>
            <form action="/update/{{expenses[0]}}" method="POST">


                    <input type="hidden" class="form-control"   name="" value =
"{{expenses[0]}}" id="">

                <div class="form-group">
                    <label for="">Date</label>
                    <input class="form-control"  type="datetime-local"
name="date" value="{{expenses[2]}}"  id="date"></div>




            <script type="text/javascript">
                    var d = new Date(value="{{expenses[2]}}" );
                    var elem = document.getElementById("date");
                    elem.value = d.toISOString().slice(0,16);
                </script>



            <div class="form-group"> <label for="">Expense name</label>
                <input class="form-control" type="text" name="expensename"
value="{{expenses[3]}}" id="expensename">
                </div>
                <div class="form-group">
                    <label for="">Expense Amount</label>
                    <input class="form-control"  type="number" min="0"
name="amount" value="{{expenses[4]}}" id="amount">
                </div>
```

```html
            <div class="form-group">
                <label for=""></label>
                <select class="form-control" name="paymode"
value="{{expenses[5]}}"  id="paymode">
                    <option selected hidden>{{expenses[5]}}</option>
                    <option value="cash">cash</option>
                    <option value="debitcard">debitcard</option>
                    <option value="creditcard">creditcard</option>
                    <option value="epayment">epayment</option>
                    <option value="onlinebanking">onlinebanking</option>

                </select>

            <div class="form-group">
                <label for=""></label>
                <select class="form-control" name="category"
value="{{expenses[6]}}"  id="category">

                    <option  selected hidden>{{expenses[6]}}</option>
                    <option value="food">food</option>
                    <option value="entertainment">Entertainment</option>
                    <option value="business ">Business</option>
                    <option value="rent">Rent</option>
                    <option value="EMI">EMI</option>
                    <option value="other">other</option>

                </select>
            </div>

            <input class="btn btn-danger" type="submit" value="Update"
id="">

        </form>
    </div>
  </div>
</div>
```

Homepage:

```css
<style>

    H1 {
        position: relative;
        right: -790PX;
        top: -400PX;
        color: RED;

    }


p{
position: relative;
```

```
right: -800px;
top: -350px;
font-family: monospace;
}

span{
    position: relative;
right: -800px;
top: -360px;
}


    .ccc {
        position: relative;
        top:80px;
        left:-100px;

    }




    </style>
    <div id=aa class="container">
    <div class="ccc">
        <img src="../static/images/images (13).jpeg">
        <h1>LET START JOURNEY</h1>
        <P>MyBudget web application helps<br> you to maintain budget<br>
            and analyse the expense</P>
        <img height="13%" width="13%" style="position: relative; top: -690PX;
left: -60PX;" src="../static/images/istockphoto-943300706-612x612.jpg">
    </div>
    <span  class="btn btn-outline-dark">Let's Begin</span>
</div>
```

Limit:

```
<p> Currently your MONTHLY limit is ₹ {{y}} </p>
<form action="/limit" method="POST">
    <p> ENTER the MONTHLY LIMIT to avoid over EXPENSES</p> <br/>
    <input type="number" name="number" required/> <span>
        <button class="btn btn-warning" type="submit">ENTER</button>
    </span>
</form>
```

Month:

```
<div class="container ">


                <div class="row">
```

```html
    <div class="col-md-5">
        <h3 class="mt-5">MONTH Expense Breakdown</h3>
         <div class="card shadow mb-2 bg-white rounded-pill">
            <div class="card-body ">
            <div class="row">
                <div class="col-md-6"> DATE </div>
                <div class="col-md-6">  AMOUNT   </div>
             </div>
            </div>
        </div>
        <div class="card shadow mb-2 bg-white rounded-bottom">
            <div class="card-body ">
            <div class="row">
                <div id ="ttime" class="col-md-6">{{row [0]}}</div>
                <div id="tamount" class="col-md-6">   {{row[1] }}   </div>
             </div>
            </div>
        </div>
</div>
</div>
<section>

    <div class="row">
        <div class="col-md-6">
            <h3 class="mt-5">Expense Breakdown BY Category</h3>

            <div class="card shadow mb-2 bg-white rounded-bottom">
                <div class="card-body ">
                <div class="row">
                    <div class="col-md-6">Food</div>
                    <div id="tfood" class="col-md-6">   {{ t_food}}   </div>
                 </div>
                </div>
            </div>

            <div class="card shadow mb-2 bg-white rounded">
             <div class="card-body">
             <div class="row">
                <div class="col-md-6">Entertainment</div>
                <div id="tentertainment" class="col-md-6"> {{
t_entertainment}}   </div>
             </div>
             </div>
        </div>


        <div class="card shadow mb-2 bg-white rounded">
            <div class="card-body">
            <div class="row">
                <div class="col-md-6">Business</div>
```

```html
            <div id="tbusiness" class="col-md-6"> {{t_business}}    </div>
        </div>
    </div>
</div>


<div class="card shadow mb-2 bg-white rounded">
    <div class="card-body">
    <div class="row">
        <div  class="col-md-6">Rent</div>
        <div id="trent" class="col-md-6"> {{  t_rent }}  </div>
    </div>
    </div>
</div>


<div class="card shadow mb-2 bg-white rounded">
    <div class="card-body">
    <div class="row">
        <div class="col-md-6">EMI</div>
        <div id="temi"  class="col-md-6">{{ t_EMI }}    </div>
    </div>
    </div>
</div>


<div class="card shadow mb-2 bg-white rounded">
    <div class="card-body">
    <div class="row">
        <div class="col-md-6">Other</div>
        <div id="tother" class="col-md-6"> {{ t_other}}</div>
    </div>
    </div>
</div>

<div class="card shadow mb-2 btn-outline-danger rounded-pill">
    <div class="card-body">
    <div class="row">
        <div class="col-md-6">Total</div>
        <div class="col-md-6">₹ {{total}}  </div>
    </div>
    </div>
</div>

</div>
<div class="col-md-6">
 <canvas id="myChart" width="400" height="400"></canvas>
 <script>
    let food = document.getElementById('tfood').innerHTML
```

```javascript
            let entertainment =
document.getElementById('tentertainment').innerHTML
            let business = document.getElementById('tbusiness').innerHTML
            let rent = document.getElementById('trent').innerHTML
            let emi = document.getElementById('temi').innerHTML
            let other = document.getElementById('tother').innerHTML
        var ctx = document.getElementById('myChart').getContext('2d');
        var myChart = new Chart(ctx, {
            type: 'doughnut',
            data: {
                labels: ['Food', 'Entertainment', 'Business', 'Rent', 'EMI',
'Other'],

                datasets: [{
                    label: 'Expenses Chart',
                    data: [food, entertainment, business, rent, emi, other],
                    backgroundColor: [
                    'rgb(255, 99, 132)',
                    'rgb(0, 0, 0)',
                    'rgb(255, 205, 86)',
                    'rgb(201, 203, 207)',
                        'rgb(54, 162, 235)',
                        'rgb(215, 159, 64)'
                    ],

                }]
            },
            options: {
                responsive: true,
                plugins: {
        legend: {
          position: 'bottom',
        },
        title: {
          display: true,
          text: 'EXPENSE BREAKDOWN'
        }
      }
            }
        });
 </script>
        </div>
    </div>
 </div>
</section>
</div>
```

Today:

```html
<div class="container ">
```

```html
<div class="row">
    <div class="col-md-5">
        <h3 class="mt-5">Today Expense Breakdown</h3>


        <div class="card shadow mb-2 bg-white rounded-pill">
            <div class="card-body ">
            <div class="row">
                <div class="col-md-6">TIME</div>
                <div class="col-md-6">  AMOUNT   </div>
             </div>
            </div>
        </div>
        {% for row in texpense %}

        <div class="card shadow mb-2 bg-white rounded-bottom">
            <div class="card-body ">
            <div class="row">
                <div id ="ttime" class="col-md-6">{{row [0]}}</div>
                <div id="tamount" class="col-md-6">   {{row[1] }}   </div>
             </div>
            </div>
        </div>


    {% endfor %}
</div>
</div>
<section>

    <div class="row">
        <div class="col-md-6">
            <h3 class="mt-5">Expense Breakdown BY Category</h3>

            <div class="card shadow mb-2 bg-white rounded-bottom">
                <div class="card-body ">
                <div class="row">
                    <div class="col-md-6">Food</div>
                    <div id="tfood" class="col-md-6">   {{ t_food}}   </div>
                 </div>
                </div>
            </div>

            <div class="card shadow mb-2 bg-white rounded">
             <div class="card-body">
             <div class="row">
```

```html
                <div class="col-md-6">Entertainment</div>
                <div id="tentertainment" class="col-md-6"> {{
t_entertainment}}   </div>
            </div>
            </div>
        </div>


        <div class="card shadow mb-2 bg-white rounded">
            <div class="card-body">
            <div class="row">
                <div class="col-md-6">Business</div>
                <div id="tbusiness" class="col-md-6"> {{t_business}}   </div>
            </div>
            </div>
        </div>


        <div class="card shadow mb-2 bg-white rounded">
            <div class="card-body">
            <div class="row">
                <div  class="col-md-6">Rent</div>
                <div id="trent" class="col-md-6"> {{  t_rent }}  </div>
            </div>
            </div>
        </div>


        <div class="card shadow mb-2 bg-white rounded">
            <div class="card-body">
            <div class="row">
                <div class="col-md-6">EMI</div>
                <div id="temi"  class="col-md-6">{{ t_EMI }}   </div>
            </div>
            </div>
        </div>


        <div class="card shadow mb-2 bg-white rounded">
            <div class="card-body">
            <div class="row">
                <div class="col-md-6">Other</div>
                <div id="tother" class="col-md-6"> {{ t_other}}</div>
            </div>
            </div>
        </div>

        <div class="card shadow mb-2 btn-outline-danger rounded-pill">
            <div class="card-body">
            <div class="row">
```

```html
                    <div class="col-md-6">Total</div>
                    <div class="col-md-6">₹ {{total}}  </div>
                </div>
            </div>
        </div>

    </div>
    <div class="col-md-6">
     <canvas id="myChart" width="400" height="400"></canvas>
     <script>
         let food = document.getElementById('tfood').innerHTML
         let entertainment =
document.getElementById('tentertainment').innerHTML
         let business = document.getElementById('tbusiness').innerHTML
         let rent = document.getElementById('trent').innerHTML
         let emi = document.getElementById('temi').innerHTML
         let other = document.getElementById('tother').innerHTML
        var ctx = document.getElementById('myChart').getContext('2d');
        var myChart = new Chart(ctx, {
            type: 'doughnut',
            data: {
                labels: ['Food', 'Entertainment', 'Business', 'Rent', 'EMI',
'Other'],

                datasets: [{
                    label: 'Expenses Chart',
                    data: [food, entertainment, business, rent, emi, other],
                    backgroundColor: [
                    'rgb(255, 99, 132)',
                    'rgb(0, 0, 0)',
                    'rgb(255, 205, 86)',
                    'rgb(201, 203, 207)',
                        'rgb(54, 162, 235)',
                         'rgb(215, 159, 64)'
                    ],

                }]
            },
            options: {
                responsive: true,
                plugins: {
    legend: {
      position: 'bottom',
    },
    title: {
      display: true,
      text: 'EXPENSE BREAKDOWN'
    }
  }
            }
        });
```

```
        </script>
      </div>
   </div>
 </div>


</section>


</div>

{% endblock %
```

Year:

```
<div class="container ">



<div class="row">
    <div class="col-md-5">
        <h3 class="mt-5">YEAR Expense Breakdown</h3>



        <div class="card shadow mb-2 bg-white rounded-pill">
            <div class="card-body ">
            <div class="row">
                <div value = "month" class="col-md-6"> </div>
                <div class="col-md-6">  AMOUNT    </div>
             </div>
            </div>
        </div>
        {% for row in texpense %}

        <div class="card shadow mb-2 bg-white rounded-bottom">
            <div class="card-body ">
            <div class="row">
                <div id ="ttime" class="col-md-6">{{row [0]}}</div>
                <div id="tamount" class="col-md-6">   {{row[1] }}   </div>
             </div>
            </div>
```

```html
        </div>
</div>
</div>
<section>

    <div class="row">
        <div class="col-md-6">
            <h3 class="mt-5">Expense Breakdown BY Category</h3>

            <div class="card shadow mb-2 bg-white rounded-bottom">
                <div class="card-body ">
                <div class="row">
                    <div class="col-md-6">Food</div>
                    <div id="tfood" class="col-md-6">  {{ t_food}}   </div>
                 </div>
                </div>
            </div>

            <div class="card shadow mb-2 bg-white rounded">
             <div class="card-body">
             <div class="row">
                <div class="col-md-6">Entertainment</div>
                <div id="tentertainment" class="col-md-6"> {{
t_entertainment}}   </div>
                 </div>
                </div>
            </div>


        <div class="card shadow mb-2 bg-white rounded">
            <div class="card-body">
            <div class="row">
                <div class="col-md-6">Business</div>
                <div id="tbusiness" class="col-md-6"> {{t_business}}   </div>
             </div>
                </div>
        </div>


        <div class="card shadow mb-2 bg-white rounded">
            <div class="card-body">
            <div class="row">
                <div  class="col-md-6">Rent</div>
                <div id="trent" class="col-md-6"> {{  t_rent }}  </div>
             </div>
                </div>
        </div>


        <div class="card shadow mb-2 bg-white rounded">
```

```html
                    <div class="card-body">
                    <div class="row">
                        <div class="col-md-6">EMI</div>
                        <div id="temi"  class="col-md-6">{{ t_EMI }}   </div>
                     </div>
                    </div>
                </div>


            <div class="card shadow mb-2 bg-white rounded">
                <div class="card-body">
                <div class="row">
                    <div class="col-md-6">Other</div>
                    <div id="tother" class="col-md-6"> {{ t_other}}</div>
                 </div>
                </div>
            </div>

            <div class="card shadow mb-2 btn-outline-danger rounded-pill">
                <div class="card-body">
                <div class="row">
                    <div class="col-md-6">Total</div>
                    <div class="col-md-6">₹ {{total}}   </div>
                 </div>
                </div>
            </div>

        </div>
        <div class="col-md-6">
        <canvas id="myChart" width="400" height="400"></canvas>
        <script>
            let food = document.getElementById('tfood').innerHTML
            let entertainment =
document.getElementById('tentertainment').innerHTML
            let business = document.getElementById('tbusiness').innerHTML
            let rent = document.getElementById('trent').innerHTML
            let emi = document.getElementById('temi').innerHTML
            let other = document.getElementById('tother').innerHTML
        var ctx = document.getElementById('myChart').getContext('2d');
        var myChart = new Chart(ctx, {
            type: 'doughnut',
            data: {
                labels: ['Food', 'Entertainment', 'Business', 'Rent', 'EMI',
'Other'],

                datasets: [{
                    label: 'Expenses Chart',
                    data: [food, entertainment, business, rent, emi, other],
                    backgroundColor: [
                    'rgb(255, 99, 132)',
                    'rgb(0, 0, 0)',
```

```
                    'rgb(255, 205, 86)',
                    'rgb(201, 203, 207)',
                        'rgb(54, 162, 235)',
                            'rgb(215, 159, 64)'
                    ],

                }]
            },
            options: {
                responsive: true,
                plugins: {
        legend: {
          position: 'bottom',
        },
        title: {
          display: true,
          text: 'EXPENSE BREAKDOWN'
        }
      }
            }
        });



      </script>
        </div>
    </div>
 </div>
</section>
</div>
```

7.3 Database Schema

Load Data   Load History   **Tables**   Views   Indexes   Aliases   MQTs   Sequences   Application objects

NDX07014.USERS

Back

Export to CSV

USERNAME	EMAIL	PASSWORD
Chandra Kumar	ckchandru6302@gmail.com	Chan@1234
Chandra Kumar	ckchandru6302@gmail.com	Chan@1234
HariPacha	haribadguy@gmail.com	Dhoni@7
Madhubalan	madhu5star@gmail.com	Madmadhu
Nikil	nknikil@gmail.com	Nikil@1234
Rabbani	rabbanis15@gmail.com	Rabbani@123

CHAPTER 8

TESTING

8.1 User Acceptance Testing

1. Purpose of Document

    The purpose of this document is to briefly explain the test coverage and open issues of the Personal Expense Tracker Application project at the time of the release to User Acceptance Testing (UAT).

2. Defect Analysis

This report shows the number of resolved or closed bugs at each severity level, and how they were resolved .

Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal
By Design	10	5	2	3	20
Duplicate	1	0	3	0	4
External	2	3	0	1	6
Fixed	11	2	4	20	37
Not Reproduced	0	0	0	0	0
Skipped	0	0	0	0	0

Outsource Shipping	6	0	0	6
Exception Reporting	7	0	0	2
Final Report Output	5	0	0	5
Version Control	1	0	0	1

	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal
Won't Fix	0	5	2	1	8
Totals	24	14	13	26	75

3.Test Case Analysis

This report shows the number of test cases that have passed, failed, and untested.

Section	Total Cases	Not Tested	Fail	Pass
Print Engine	7	0	0	7
Client Application	29	0	0	29
Security	4	0	0	4

CHAPTER 9

PERFORMANCE METRICS

- Tracking income and expenses: Monitoring the income and tracking all expenditures (through bank accounts, mobile wallets, and credit & debitcards).

- Transaction Receipts: Capture and organize your payment receipts tokeep track of your expenditure.

- Organizing Taxes: Import your documents to the expense tracking app,and it will streamline your income and expenses under the appropriate tax categories.

- Payments & Invoices: Accept and pay from credit cards, debit cards, netbanking, mobile wallets, and bank transfers, and track the status of yourinvoices and bills in the mobile app itself. Also, the tracking app sends reminders for payments and automatically matches the payments with invoices.

- Reports: The expense tracking app generates and sends reports to give adetailed insight about profits, losses, budgets, income, balance sheets, etc.,

- E-commerce integration: Integrate your expense tracking app with youreCommerce store and track your sales through payments received via multiple payment methods.

- Vendors and Contractors: Manage and track all the payments to thevendors and contractors added to the mobile app.

- Access control: Increase your team productivity by providing access control to particular users through custom permissions.

- Track Projects: Determine project profitability by tracking lab or costs, payroll, expenses, etc., of your ongoing project.

- Inventory tracking: An expense tracking app can do it all. Right from tracking products or the cost of goods, sending alert notifications whenthe product is running out of stock or the product is not selling, to purchase orders.

- In-depth insights and analytics: Provides in-built tools to generate reportswith easy-to- understand visuals and graphics to gain insights about the performance of your business.

- Recurrent Expenses: Rely on your budgeting app to track, streamline,and automate all the recurrent expenses and remind you on a timely basis.

CHAPTER 10
ADVANTAGES & DISADVANTAGES

ADVANTAGES :

- You will spend mindfully.
- Making financial control.
- Identify problem areas.
- Make a better budget.
- Tracking your financial progress.
- Keeping finances organized.
- Improving financial security.
- Encourages and increases savings.

DISADVANTAGES :

- Determining the right process.
- Feeling constrained.
- Spending more than necessary.
- Finding the time for it.
- Making the right decisions.
- Impacting how employees feel.
- Overlooking important factors.
- Having top-level employees do all the planning.

CHAPTER 11

CONCLUSION

The new system has overcome most of the limitations of the existing system and works according to the design specification given. The project what we have developed is work more efficient than the other income and expense tracker. The project successfully avoids the manual calculation for avoiding calculating the income and expense per month. The modules are developed with efficient and also in an attractive manner. The developed systems dispense the problem and meet the needs of by providing reliable and comprehensive information. All the requirements projected by the user have been met by the system. The newly developed system consumes less processing time and all the details are updated and processed immediately. Since the screen provides online help messages and is very userfriendly any user will get familiarized with its usage. Module s are designed to be highly flexible so that any failure requirements can be easily added to the modules without facing many problems. The best organizations have a way of tracking and handling these reimbursements. This ideal practice guarantees that the expenses tracked are accurately and in a timelymanner. From a company perspective, timely settlements of these expenses when tracked well will certainly boost your employees' morale

- Quickly Determine How Profitable Business Is

- Effective expense tracking and reporting to avoid conflict

CHAPTER 12

FUTURE SCOPE

The project assists well to record the income and expenses in general. However,this project has some limitations:

● The application is unable to maintain the backup of data once it is uninstalled.

● This application does not provide higher decision capability.

To further enhance the capability of this application, we recommend thefollowing features to be incorporated into the system:

● Multiple language interface.

● Provide backup and recovery of data.

● Provide better user interface for user.

● Mobile apps advantage.

CHAPTER 13

APPENDIX

Source Code

```
from flask import Flask, render_template, request, redirect, url_for, session

import ibm_db

import re


app = Flask(__name__)

app.secret_key = 'a'

conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=9938aec0-8105-433e-8bf9-
0fbb7e483086.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32459;SECURITY=SSL;SSLServ
erCertificate=Certificate.crt;UID=ndx07014;PWD=dRFu02XhI4xx0T2O","","")

@app.route('/')

def homer():

return render_template('home.html')


@app.route('/login',methods =['GET', 'POST'])

def login():

global userid

msg = ''


if request.method == 'POST' :

username = request.form['username']

password = request.form['password']

sql = "SELECT * FROM users WHERE username =? AND password=?"

stmt = ibm_db.prepare(conn, sql)

ibm_db.bind_param(stmt,1,username)

ibm_db.bind_param(stmt,2,password)

ibm_db.execute(stmt)

account = ibm_db.fetch_assoc(stmt)

print (account)

if account:

session['loggedin'] = True

session['id'] = account['USERNAME']

userid= account['USERNAME']
```

```python
session['username'] = account['USERNAME']
msg = 'Logged in successfully !'

msg = 'Logged in successfully !'
return render_template('dashboard.html', msg = msg)
else:
msg = 'Incorrect username / password !'
return render_template('login.html', msg = msg)


@app.route('/register', methods =['GET', 'POST'])
def registet():
msg = ''
if request.method == 'POST' :
username = request.form['username']
email = request.form['email']
password = request.form['password']
sql = "SELECT * FROM users WHERE username =?"
stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(stmt,1,username)
ibm_db.execute(stmt)
account = ibm_db.fetch_assoc(stmt)
print(account)
if account:
msg = 'Account already exists !'
elif not re.match(r'[^@]+@[^@]+\.[^@]+', email):
msg = 'Invalid email address !'
elif not re.match(r'[A-Za-z0-9]+', username):
msg = 'name must contain only characters and numbers !'
else:
insert_sql = "INSERT INTO users VALUES (?, ?, ?)"
prep_stmt = ibm_db.prepare(conn, insert_sql)
ibm_db.bind_param(prep_stmt, 1, username)
ibm_db.bind_param(prep_stmt, 2, email)
ibm_db.bind_param(prep_stmt, 3, password)
ibm_db.execute(prep_stmt)
msg = 'You have successfully registered !'
```

```python
    elif request.method == 'POST':
        msg = 'Please fill out the form !'
    return render_template('signup.html', msg = msg)

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

@app.route('/apply',methods =['GET', 'POST'])
def apply():
    msg = ''
    if request.method == 'POST' :
        username = request.form['username']
        email = request.form['email']

        qualification= request.form['add']
        skills = request.form['expense']
        jobs = request.form['s']
        sql = "SELECT * FROM users WHERE username =?"

        '''stmt = ibm_db.prepare(conn, sql)
        #ibm_db.bind_param(stmt,1,username)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
        print(account)
        #if account:
        # msg = ''
        # return render_template('apply.html', msg = msg)'''


        insert_sql = "INSERT INTO job VALUES (?, ?, ?, ?, ?)"
        prep_stmt = ibm_db.prepare(conn, insert_sql)
        ibm_db.bind_param(prep_stmt, 1, username)
        ibm_db.bind_param(prep_stmt, 2, email)
        ibm_db.bind_param(prep_stmt, 3, add expense)
        ibm_db.bind_param(prep_stmt, 4, manage expense)
        ibm_db.bind_param(prep_stmt, 5, set limit)
        ibm_db.execute(prep_stmt)
        msg = 'You have successfully set your expense'
```

```python
session['loggedin'] = True
TEXT = "Hello Chandru,Your balance is "

#sendmail(TEXT,"610819104004@smartinternz.com")
#
# sendgridmail("610819104004@smartinterz.com",TEXT)


elif request.method == 'POST':
msg = 'Please fill out the form !'
return render_template('edit.html', msg = msg)

@app.route('/display')
def display():
print(session["username"],session['id'])

cursor = mysql.connection.cursor()
cursor.execute('SELECT * FROM job WHERE userid = % s', (session['id'],))
account = cursor.fetchone()
print("accountdislay",account)

return render_template('display.html',account = account)

@app.route('/logout')

def logout():
session.pop('loggedin', None)
session.pop('id', None)
session.pop('username', None)
return render_template('home.html')


if __name__ == '__main__':
app.run(host='0.0.0.0')
```

GIT JUB LINK:

https://github.com/IBM-EPBL/IBM-Project-23957-1659934237