PERSONAL EXPENSE TRACKER APPLICATION

A PROJECT REPORT

Submitted by

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1. INTRODUCTION

1.1 PROJECT OVERVIEW:

        A Personal Expense Tracker is a one kind of digital diary that helps to keep an eye on all of our money related transitions and also providesall financial activities report daily, weekly, monthly and yearly. Users get notification to record expenses and incomes that are helpful to the tracking system of the application. All information is saved in offline mode so users can easily access any time and any palaces. User interface of the personal Expense Tracker is very simpleand attractive so it is easy to understand and the best way to record our financial data

1.2 PURPOSE :

        The motivation to work in this project is actually our real-life experience. As a user We face many difficulties in our daily file. In our daily life money is the most important portion and without it we cannot last one day on earth but if we keep on track all financial data then we can overcome this problem. Most of the people cannot track their expenses and income one way they face the money crisis and depression. This situation motivates us to make an android app to track all financial activities. Using the Daily Expense Tracker user can be tracking expenses day to day and making life tension free

2. LITERATURE SURVEY

2.1 EXISTING PROBLEM:

You may be doing well in most fields of your budget, but there would be that one stubborn category that pulls you down every month. For some it may be shopping and for others it may be dining out. You have tried all you can, but haven't been able to tame your spending in this category.

Another common problem a lot of people face is that they experience periods of financial famines and windfalls, depending on what time of the getBakers is based, the payday usually falls in the middle of the month. And, all the bills are scheduled towards the end of the month. So it is common that once you get paid and pay off your bills, a chunk of your pay vanishes in the first two weeks. In the next twoweeks, it then becomes a battle for survival, when you struggle to even cover for your groceries. The only apparent solution to this then feels like the arrival of your paycheck.

2.2 REFERENCES:

[1] Y. Anitha, R. Ranjini, S. Gomathi, "Easy App for Expanses Manager Using Android", International Journals of Computer Techniques, Volume: 3Issue: 2, ISSN: 2394-2231 (MarchApril 2016).

[2] N. ZahiraJahan MCA., M. Phil, K. I. Vinodhini, "Personalized Expense Managing Assistant Using Android", International Journals of Computer Techniques (IJCT), Volume: 3 Issue: 2, ISSN: 2394-2231 (March-April 2016).

[3]P. Thanapal, Mohammed Yaseen Patel, T. P. Lokesh Raj and J. Satheesh Kumar, "Income and Expense Tracker", Indian Journal of Science and Technology, Vol 8(S2), ISSN: 0974-5645 (January 2014).

[4]Girish Bekaroo and Sameer Sunhaloo, "Intelligent Online Budget Tracker", Computer Science and IT Education Conference(2014).
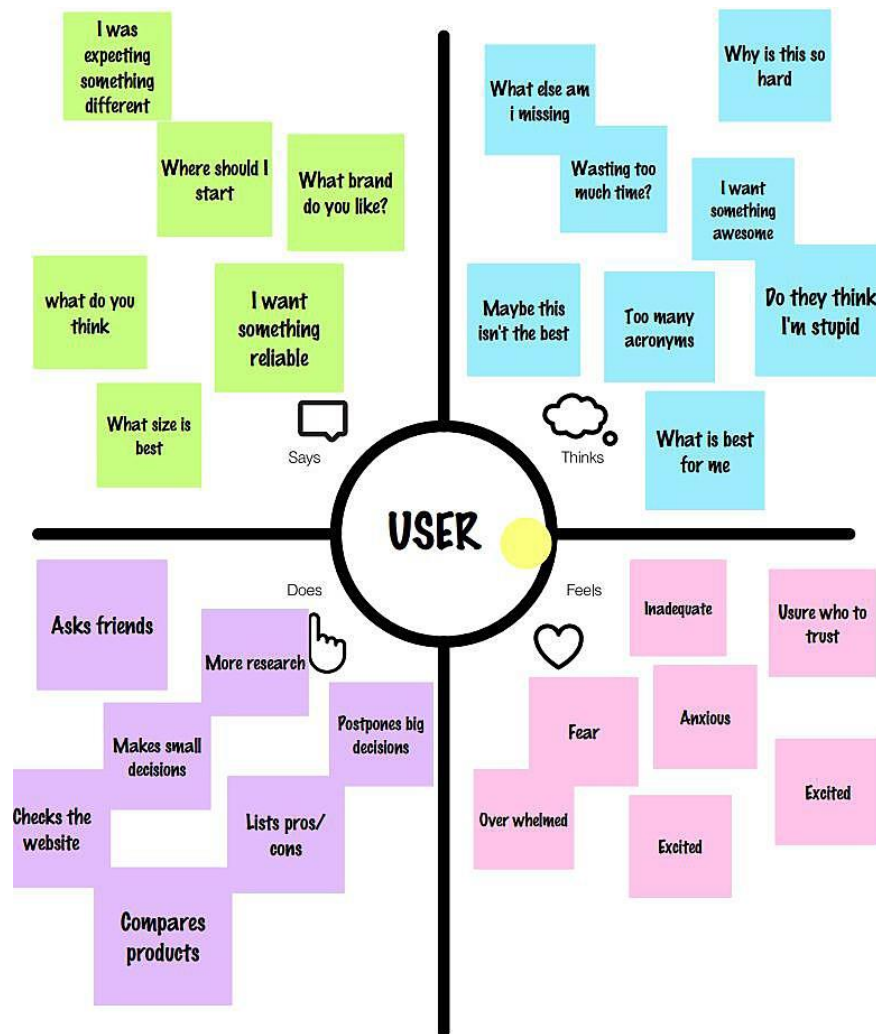
2.3 PROBLEM STATEMENT :

Keeping track of expenses these days is not an easy job for people with busy lifestyle. Making sure each and every purchase is jotted is already a hassle but making sure the right outcome of savings after being deducted with expenses is even harder. Therefore, an easy solution for these issues is to find the right medium for users to maintain a better expense tracking diary.

This mobile application is proposed to help users overcome the struggles they have to endure when they do not track their expenses or track their expenses manually or even have troubles with the current existing expense tracker that they are using.

The common issues that occurs when users track their expenses manually are that, they tend to overspend and users will not know where their money go which will consequently interfere with their future plans. But the problems with the existing applications are the fact that some are not user friendly, outdated and does not solves the users' difficulties in planning their budget. When tracking expenses manually, users tend to miscalculate their expenses to the point that their cash flow does not make sense. Therefore, this proposed project will help users solve these issues.

3.IDEATION AND PROPOSED SOLUTION

3.1 EMPATHY MAP :

3.2 IDEATION AND BRAINSTORMING :

**Brainstorm
& idea prioritization**

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.

- 10 minutes to prepare
- 1 hour to collaborate
- 2-8 people recommended
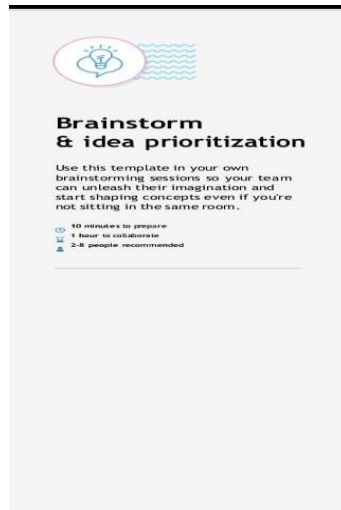
Before you collaborate

A little bit of preparation goes a long way
with this session. Here's what you need
to do to get going.

○ 10 minutes

A Team gathering
Define who should participate in the session and send an
invite. Share relevant information or pre-work ahead.

B Set the goal
Think about the problem you'll be focusing on solving in
the brainstorming session.

C Learn how to use the facilitation tools
Use the Facilitation Superpowers to run a happy and
productive session.

Open article →

1

Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

⏱ 5 minutes

PROBLEM

How to allow the users a simple way to track all their expenses and how we define a remainder system for the same

Key rules of brainstorming

To run an smooth and productive session

Stay in topic.   Encourage wild ideas.

Defer judgment.   Listen to others.

Go for volume.   If possible, be visual.

DEEPAK

To user to enter the spending	Limitations for budget	Edit income and expenses
Keep accurate records	Add income and expenses	Add remainder and get notify

PRAVEEN

Set smart budget to help you not over spend money in a choose category	Create a additional steam of income	Get monthly report as pdf or excel sheet
Generate Monthly report	Filter the expenses periodically	Helps you to stick on your budget and cut out impulse spending

BHARATH

Navigate to dash board	Edit user profile	Set Budget
Visualize the expense	Show cash flow	Generate monthly record

SRIDHARAN

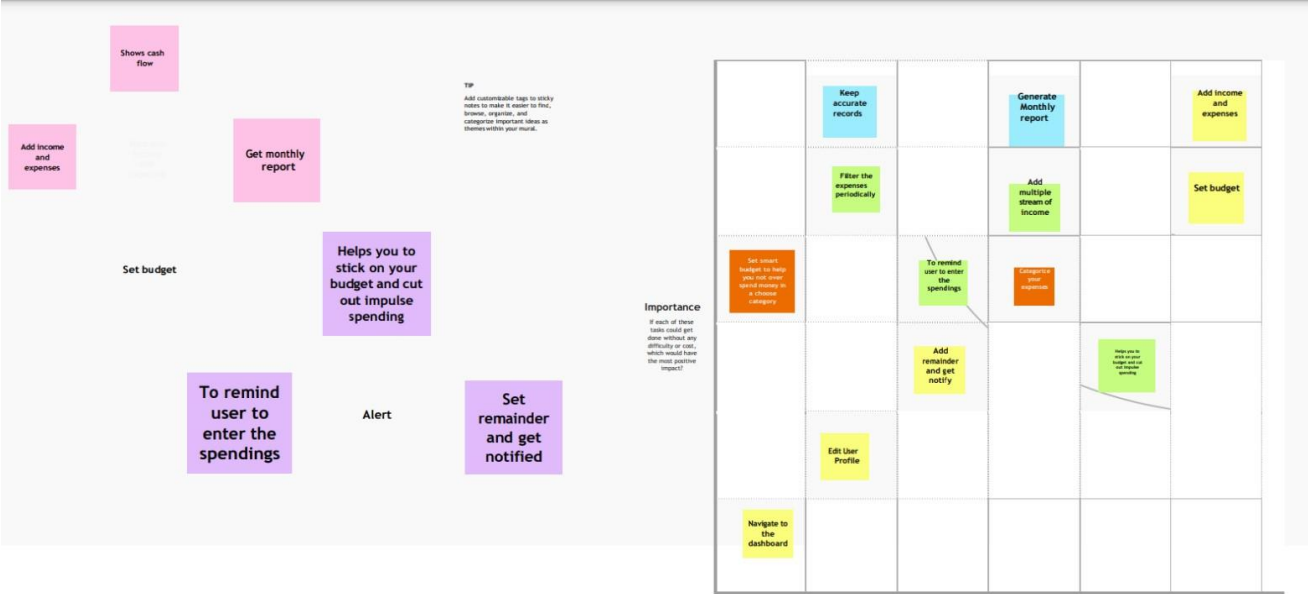|		
To remind user to enter the spendings	Add multiple stream of income	Categorize the expenses
Feedback System	Overspending / underspending of money	No need for complicated Excel sheets

Shows cash flow

Add income and expenses

Get monthly report

Set budget

Helps you to stick on your budget and cut out impulse spending

To remind user to enter the spendings

Alert

Set remainder and get notified

TIP
Add customizable tags to sticky notes to make it easier to find, browse, organize, and categorize important ideas as themes within your mural.

Importance
If each of these tasks could get done without any difficulty or cost, which would have the most positive impact?

Keep accurate records

Generate Monthly report

Add income and expenses

Filter the expenses periodically

Add multiple stream of income

Set budget

Set smart budget to help you not over spend money in a choose category

To remind user to enter the spendings

Categorize your expenses

Add remainder and get notify

Helps you to stick on your budget and cut out impulse spending
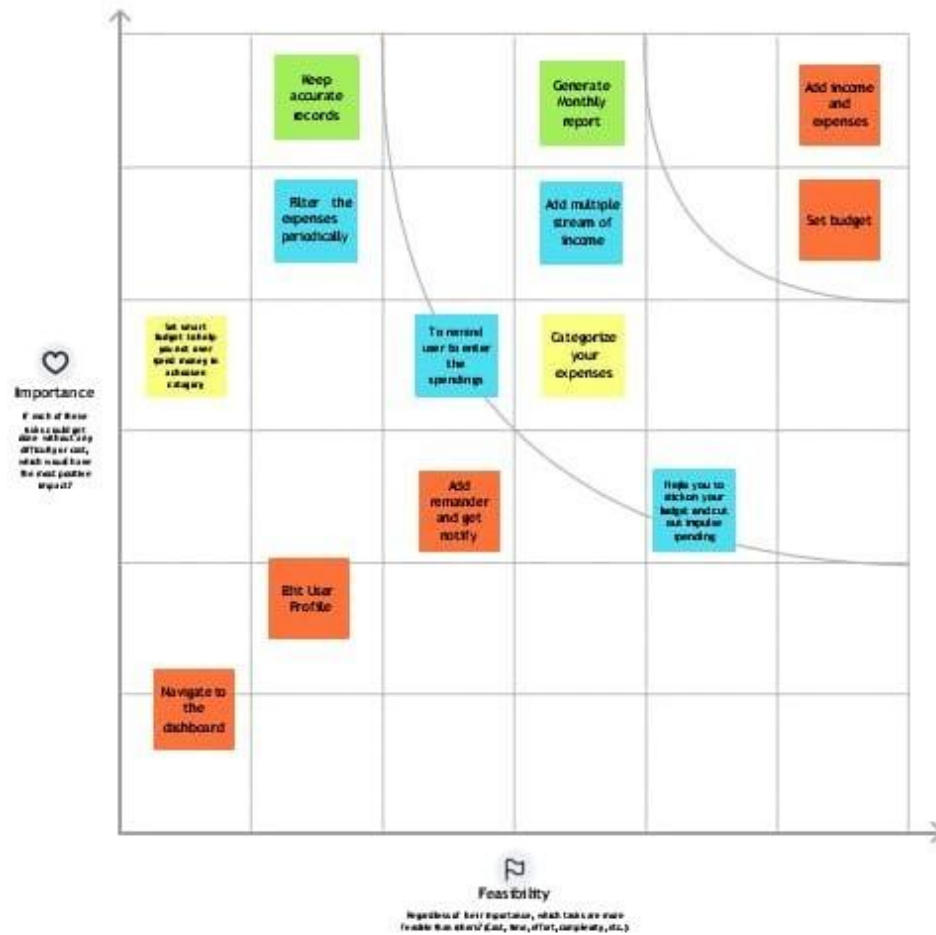
Edit User Profile

Navigate to the dashboard

4

Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

⏱ 20 minutes

Importance

If each of these tasks could get done without any difficulty or cost, which would have the most positive impact?

- Keep accurate records
- Filter the expenses periodically
- Set smart budget to help you not over spend money in a certain category
- Generate Monthly report
- Add multiple stream of income
- To remind user to enter the spendings
- Categorize your expenses
- Add income and expenses
- Set budget
- Add reminder and get notify
- Help you to stick on your budget and cut out impulse spending
- Edit User Profile
- Navigate to the dashboard

Feasibility

Regardless of their importance, which tasks are more feasible than others? (Cost, time, effort, complexity, etc.)

3.3 PROPOSED SOLUTION:

S. NO	Parameter	Description
1.	Problem Statement (Problem tobe solved)	In a Traditional Paper based expense tracking system, it is difficult to trackour monthly expenses manually. Some of the records may get lost in case of fire, floods, etc. We are trying to solve this problem in a more efficient way.
2.	Idea / Solution description	This expense tracker is a computerize application which keeps track of all your finances and helps in accounting and budgeting.
3.	Novelty / Uniqueness	The User gets notified once their expense touches 50% 75% 90% & 100% of their limits. Display the costson a monthly and weekly basis in a pie chart.
4.	Social Impact / Customer Satisfaction	This Application is able to generate reports of their spendings. It can create awareness among common people about finance. It makes users financially responsible and satisfy them without letting them to debt.

5.	Business Model (Revenue Model)	As this project is intended purely for educational purposes, we keep this application free of cost.

3.4 PROPOSED SOLUTION FIT:

1. CUSTOMER SEGMENT(S)

Be it a common man or a big fish, Our app comes in handy to all of thosewho wish to boost their expense potential. People who are unaware of financial things of how to spend their money can make use of this app.

2. JOBS-TO-BE-DONE/PROBLEMS

In a Traditional paper based expense tracking system, it is difficult to track our monthly expenses manually. Some of the records may get lost in case offire, floods, etc..,

3. TRIGGERS

This application can create awareness among common people about theirincome and expenses. It reduces time rather than entering details manually.

4. EMOTIONS: BEFORE/AFTER

Frustration, confusion, rage / Feeling smart, leading happy life, being an example for others.

5. AVAILABLE SOLUTIONS

User can add their income and expenses. They have an option to set a limiton how much they can spend on their salary or savings. IF that particular limit is exceeded they are notified by email.

6. CUSTOMER CONSTRAINTS

User have to entry record manually, sometimes while maintaining a large amount of data may look messy. User who is maintaining the system must have sometechnical knowledge

7. BEHAVIOUR

People may be notes on their mobile. They try to remember the expenses they do and calculate the whole expense at once at the end of the monthwhich may take a long time to calculate.

8.CHANNELS OF BEHAVIOUR

ONLINE:

People may use online tools to calculate their expenses

OFFLINE:

People may use a ledger to calculate their expenses

4.REQUIREMENT ANALYSIS

4.1. FUNCTIONAL REQUIREMENTS:

- Size of the application.

- The complexity of the app.

- Features to be incorporated.

- UX/UI design.

- Testing.

- Location.

- Third-party integrations.

4.2. NON-FUNCTIONAL REQUIREMENTS:

Security Requirements:

1. Passwords shall be displayed as "*" in the web pages wherever required.
2. Proper authentication is required for users to access any of the web pagesincluding the home page.
3. Every user of the system is assigned a unique login and password to access theapplication over the interne

4. Microsoft .NET framework ensures security of data, for example passwordsthat are being transmitted over the internet

SYSTEM CONSTRAINTS:

This application is developed to be flexible enough to work on any system and independent of the type of web browser used. The only constraint is the client will need a web-enabled system with web browser.

SOFTWARE QUALITY ATTRIBUTES:

Reliability this project is one of the most critical attributes as it involve the financialaspect of the employee. The employee expense i.e., the data entered must always be correctly stored into the database. In addition, the database should commit transactions so that partial entries are not stored in the database. Usability The system should be very easy to use with minimal required training. Individuals of varying skill level and technical competence will use the system. Maintainability The code and design need to be documented well enough and designed such that a new project member with the same amount of academic and co-op experience can easily ramp up the project.

5.PROJECT DESIGN

5.1. DATA FLOW DIAGARAMS:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.
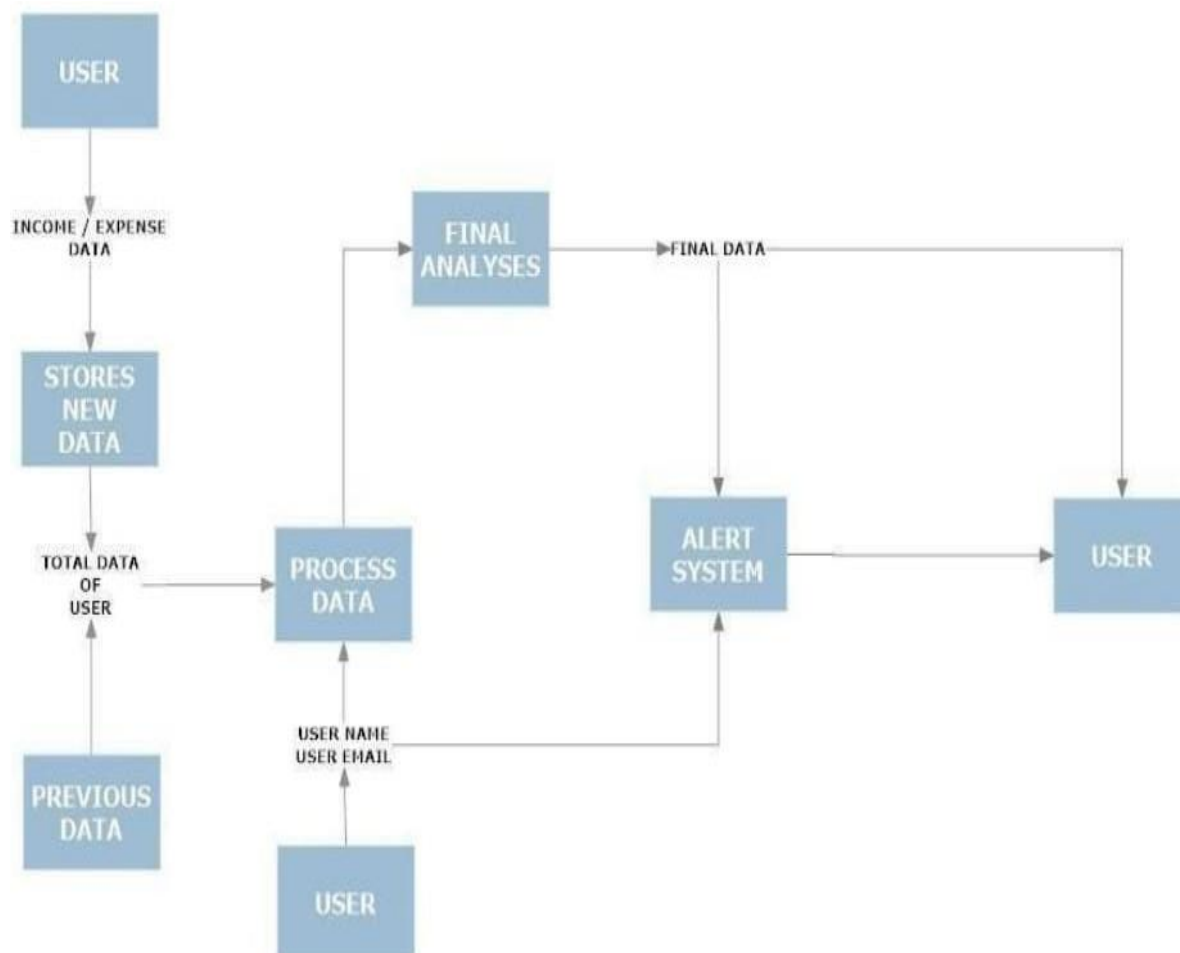
5.2 SOLUTIONS & TECHNICAL ARCHITECTURE:
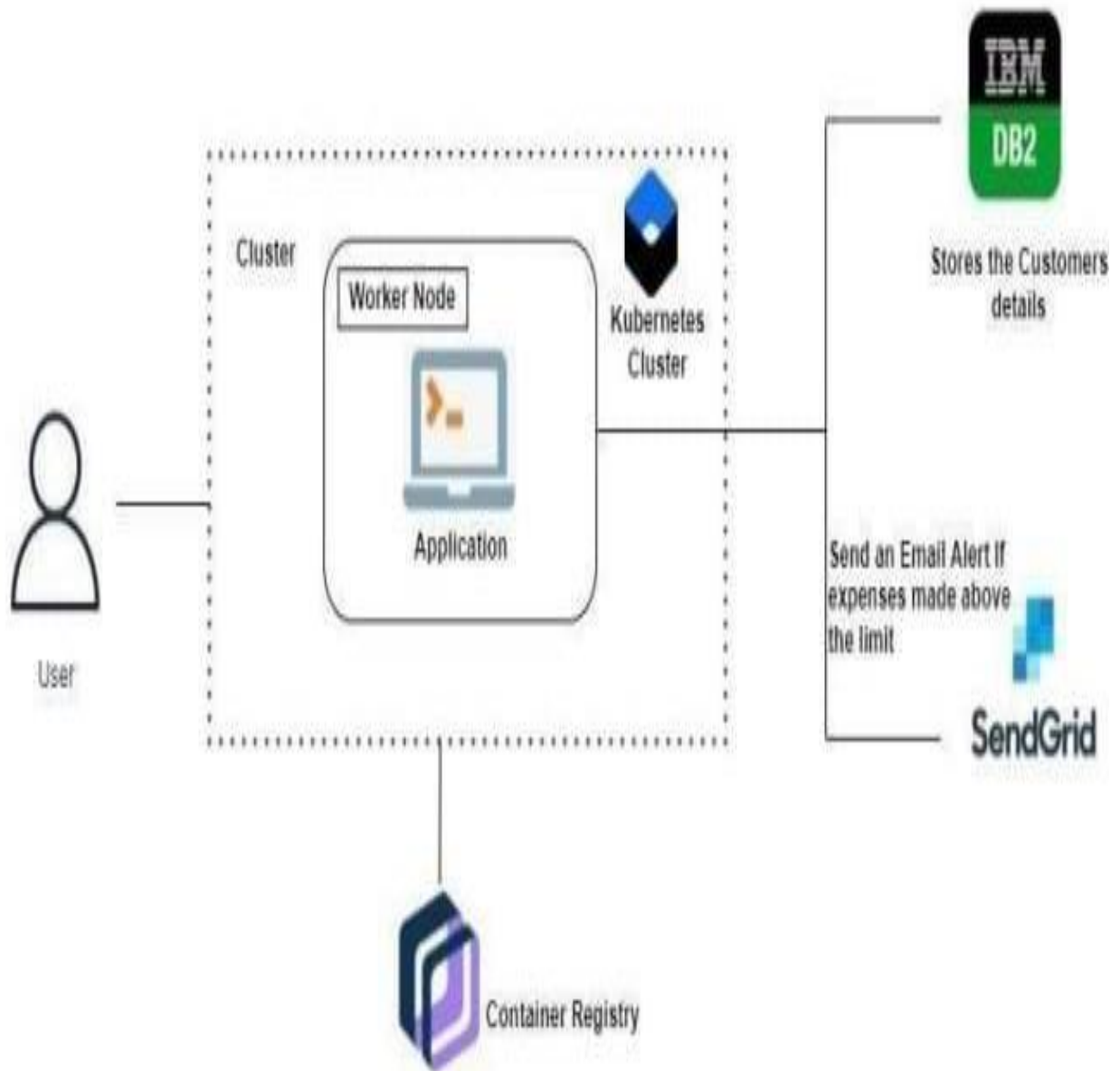
5.3. USER STORIES:

User type	Functional Requirements (Epic)	User Story Number	User story/task	acceptance criteria	priority	Release
Customer (application & web user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and conforming 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 Facebook	I can register & access the dashboard with Facebook 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 expense	High	
Customer Care Executive		USN-6	As a customer care executiveI can solve thelog in issues and other issues of the application.	I can provide support or solution at any time 24*7	Medium	

6.PROJECT PLANNING AND SCHEDULING

6.1 Sprint Planning And Estimation :

Sprint	Functional Requirements(Epic)	User Story Number	User Story / Task	Story points	Priority	Team Members
Sprint-1	Registration	PET-1	As a user, I can register for the application by entering my email, password, and confirming my password.	10	High	DEEPAK RAJ
Sprint-1	Login	PET-2	As a user, I can login to user dashboard and seethe information about my incomes and expenses.	10	High	DEEPAK RAJ
Sprint-2	Dashboard	PET-3	As a user, I can enter my income and expenditure details.	20	High	BHARATHVAJ

Sprint	Functional Requirements (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Expense Update	PET-4	As a user ,I can track my expensesand manage my monthly budget.	10	High	PRAVEEN KUMAR
Sprint-3	Email Alert	PET-5	As a user, I can see if there is an excessive expense and if there is such condition, I will be notified via e-mail.	10	Medium	SRIDHARAN

SPRINTS	TOTAL STORY POINTS	DURATION	SPRINT START DATE	SPRN END DATE	STORY POINTS COMPLETE	SPRINT RELEASE DATE
SPRINT – 1	20	6 Days	3 NOV 2022	8 NOV 2022	20	8 NOV 2022
SPRINT – 2	20	6 Days	4 NOV 2022	9 Nov 2022	20	9 Nov 2022
SPRINT – 3	20	6 Days	4 NOV 2022	9 Nov 2022	20	9 Nov 2022
SPRINT – 4	20	6 Days	5 Nov 2022	10 Nov 2022	20	10 Nov 2022

Average Velocity = 20 / 6 = **3.**

SPRINT DELIVERY SCHEDULE :

Sprint	Total Story Point	Duration	Sprint Start Date	Sprint End Date (Planned)	Story point completed (As on planned end date)	Sprint Release Date(actual)
Sprint 1	20	6 days	23 Oct 2022	27 Oct 2022	20	28 Oct 2022
Sprint2	20	6 days	30 Oct 2022	2 Nov 2022	20	03 Nov 2022
Sprint 3	20	6 days	6 Nov 2022	10 Nov 2022	20	11 Nov 2022
Sprint 4	20	6 days	13 Nov 2022	18 Nov 2022	20	19 Nov 2022

Velocity

We have a 6-day sprint duration, and the velocity of the team is 20 (points per sprint).

Calculating the team's average velocity (AV) per iteration unit (story points per day)

AV = sprint duration /

velocity = 20/6 = 3.33

Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

6.3 REPORTS FROM JIRA:

JIRA REPORT 1:

JIRA REPORT 2 :

JIRA REPORT 3 :

8.TESTING

8.1 Test Cases

Test case ID	Feature Type	Component	Test Scenario	Pre-Requisite
LoginPage_TC_OO1	Functional	Home Page	Verify user is able to see t e Login/Signup popupwhen user clicked on My account button	None
LoginPage_TC_OO2	UI	Home Page	Verify the UI elements inLogin/Signup popup	Home
LoginPage_TC_OO3	Functional	Home page	Verify user is able to log into application with Valid credentials	Username & password
LoginPage_TC_OO4	Functional	Login page	Verify user is able to log into application with Invalid credentials	Username & password
LoginPage_TC_OO4	Functional	Login page	Verify user is able to log into application with Invalid credentials	Login first
LoginPage_TC_OO5	Functional	Login page	Verify user is able to log into application with Invalid credentials	Login first
Add Expense Page_OO5_TC	Functional	Add Expensepage	Verify whether user is able to addexpense or not	Have some expense to add

Steps To Execute	Test Data	Expected Result	Actual Result	Status	Comment	TC for Auto	BUG ID	Executed By
1. Go to website 2.Home page appears	Username: test password: 123456	Login/Signup popup should display	Working as expected Pass	-			PRAVEEN KUMAR
1. Go to website 2. Enter details and click login	Username: test password: 123456	Application should show below UIelements: A .email text box B. password text box C. Login button with orange color D. New customer? Create account link E. Last password? Recovery pass link	Working as expected Pass	-			BHARATHVAJ
1. Go to website 2. Enter details and click login	Username: test password: 123456	User should navigate to user accounthomepage	Working as expected Pass	-			DEEPAK RAJ
1. Go to website 2. Enter details and click login	Username: test password: 123456	Application should show 'Incorrect mailor password ' validation message.	Working as expected Pass	-			SRIDHARAN
1. Go to website 2. Enter details and click login	Username: test password: 123456	Application should show 'Incorrectemail or password ' validation message.	Working as expected Pass	-			PRAVEEN KUMAR
1. Go to website 2. Enter details and click login	Username: test password: 123456	Application should show 'Incorrectemail or password ' validation message.	Working as expected Pass	-			DEEPAK RAJ
1. Add date, expense name andother details . 2. Check if the expense gets added	add rent = 6000	Application adds expenses	Working as expected Pass	-			SRIDHARAN

8.2 USER ACCEPTANCE TESTING

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).

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
Won't Fix	0	5	2	1	8
Totals	24	14	13	26	75

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

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

9.RESULTS

9.1 PERFORMANCE METRICS

The performance of a recommendation algorithm is evaluated by using some specific metrics that indicate the accuracy of the system. The type of metric used depends on the type of filtering technique. Root Mean Square Error (RMSE), Receiver Operating Characteristics (ROC), Area Under Cover (AUC), Precision, Recall and F1 score is generally used to evaluate the performance or accuracy of the recommendation algorithms.

Root-mean square error (RMSE). RMSE is widely used in evaluating and comparing the performance of a recommendation system model compared to other models. A lower RMSE value indicates higher performance by the recommendation model. RMSE, can be as represented as follows:

1.Precision

Precision can be defined as the fraction of correct recommendations or predictions (known as True Positive) to the total number of recommendations provided, which can be as represented as follows:

It is also defined as the ratio of the number of relevant recommended items to the number of recommended items expressed as percentages.

2.Recall

Recall can be defined as the fraction of correct recommendations or predictions (known as True Positive) to the total number of correct relevant recommendations provided, which can be as represented as follows:

It is also defined as the ratio of the number of relevant recommended items to the total number of relevant items expressed as percentages.

3.F1 Score

F1 score is an indicator of the accuracy of the model and ranges from 0 to 1, where a value close to 1 represents higher recommendation or prediction accuracy. It represents precision and recall as a single metric and can be as represented as follows:

4.Coverage

Coverage is used to measure the percentage of items which are recommended by the algorithm among all of the items.

5.Accuracy

Accuracy can be defined as the ratio of the number of total correct recommendations to the total recommendations provided, which can be as represented as follows:

10.ADVANTAGES &DISADVANTAGES:

10.1. ADVANTAGES:

- It Helps You Stick to Your Budget.
- Tracking Your Expenses Can Reveal Spending Issues.
- It Helps You Meet Your Financial Objectives.
- Record Expenses With Pen and Paper.
- Make It Easier With an App or Software.
- Work Together as a Couple.

It's simple to set up and use. When you're creating your own method of tracking your finances, you first have to figure out how you're going to do that. Are you going to use pen and paper, or software, or an excel spreadsheet? What are you going to track? How are you going to input that data, and how often are you going to do it? With an automated app, it tracks everything for you in real time. It has a wealth of information, so no matter what data you feel is important to track, it is all there and available for you – you just need to take a look to see it. There's an easy user interface for everything as well. Whether you want to set up a budget, track a type of expense, or look over your financial history, there's a tab or an option ready and waiting for you.

10.2. DISADVANTAGES:

- A con with any system used to track spending is that one may start doing it then taper off until it's forgotten about all together.
- Yet, this is a risk for any new goal such as trying to lose weight or quit smoking.
- If a person first makes a budget plan, then places money in savings before spending any each new pay period or month, the tracking goal can help.
- In this way, tracking spending and making sure all receipts are accounted for only needs to be done once or twice a month.

11.CONCLUSION

Monitoring your everyday expenses can set aside you cash, yet it can likewise help you set your monetary objectives for what's to come. On the off chance that you know precisely where your sum is going much of a stretch see where a few reductions and bargains can be made. Expense Tracker project is for keeping our day-to-day expenditures will helps us to keep record of our money daily. The project what we have created is wOrk more proficient than the other income andexpense tracker. The project effectively keeps away from the manual figuring for trying not to ascertain the pay and cost each month. It's a user-friendly application.

12.FUTURE SCOPE

1) It will have various options to keep record (for example Food, Travelling Fuel, Salary etc.).

2) Automatically it will keep on sending notifications for our daily expenditure.

3) In today's busy and expensive life, we are in a great rush to make moneys, but at the end of the month we broke off. As we are unknowingly spending money on title and unwanted things. So, we have come over with the plan to follow our profit.

4) Here user can define their own categories for expense type like food, clothing, rent and bills where they have to enter the money that has been spend and likewise can add some data in extra data to indicate the expense.

13.APPENDIX

SOURCE CODE

```
static > js > JS home.js > ...
   1   const hamburger = document.querySelector('.header .nav-bar .nav-list .hamburger');
   2   const mobile_menu = document.querySelector('.header .nav-bar .nav-list ul');
   3   const menu_item = document.querySelectorAll('.header .nav-bar .nav-list ul li a');
   4   const header = document.querySelector('.header.container');
   5
   6   hamburger.addEventListener('click', () => {
   7       hamburger.classList.toggle('active');
   8       mobile_menu.classList.toggle('active');
   9   });
  10
  11   document.addEventListener('scroll', () => {
  12       var scroll_position = window.scrollY;
  13       if (scroll_position > 250) {
  14           header.style.backgroundColor = '#29323c';
  15       } else {
  16           header.style.backgroundColor = 'transparent';
  17       }
  18   });
  19
  20   menu_item.forEach((item) => {
  21       item.addEventListener('click', () => {
  22           hamburger.classList.toggle('active');
  23           mobile_menu.classList.toggle('active');
  24       });
  25   });
  26
```

```
templates > <> base.html > @ html > @ head
   1   <!DOCTYPE html>
   2   <html lang="en">
   3   <head>
   4       <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/css/bootstrap.min.css" integrity="sha384-TX8t27EcRE3e/ihU7zmQxVncDAy5uIKz4rEkgIXeMed4M0
   5       <script src="https://cdn.jsdelivr.net/npm/chart.js@3.2.1/dist/chart.min.js"></script>
   6       <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj" crossorigin="anonymo
   7
   8   <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js" integrity="sha384-9/reFTGAW83EW2RDu2S0VKaIzap3H66lZH81PoYlFhbGU+6BZp6G7niu735Sk7lN" cro
   9
  10   <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js" integrity="sha384-B4gt1jrGC7Jh4AgTPSdUtOBvfO8shuf57BaghqFfPlYxofvL8/KUEfYiJOMMV+rV" c
  11
  12
  13   <link rel="stylesheet" href="https://pro.fontawesome.com/releases/v5.10.0/css/all.css" integrity="sha384-AYmEC3Yw5cVb3ZcuHtOA93w35dYTsvhLPVnYs9eStHfGJvOVKXVfELGroGkvsg+p"
  14
  15       <title>Document</title>
  16   </head>
  17   <body>
  18       <!DOCTYPE html>
  19       <html lang="en">
  20       <head>
  21           <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/css/bootstrap.min.css" integrity="sha384-TX8t27EcRE3e/ihU7zmQxVncDAy5uIKz4rEkgIXeMed4M
  22           <script src="https://cdn.jsdelivr.net/npm/chart.js@3.2.1/dist/chart.min.js"></script>
  23           <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj" crossorigin="anony
  24
  25       <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js" integrity="sha384-9/reFTGAW83EW2RDu2S0VKaIzap3H66lZH81PoYlFhbGU+6BZp6G7niu735Sk7lN" c
  26
  27       <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js" integrity="sha384-B4gt1jrGC7Jh4AgTPSdUtOBvfO8shuf57BaghqFfPlYxofvL8/KUEfYiJOMMV+rV"
  28
  29
  30       <link rel="stylesheet" href="https://pro.fontawesome.com/releases/v5.10.0/css/all.css" integrity="sha384-AYmEC3Yw5cVb3ZcuHtOA93w35dYTsvhLPVnYs9eStHfGJvOVKXVfELGroGkvsg+
  31
  32           <title>Document</title>
  33       </head>
  34       <body>
  35
  36           <nav class="navbar sticky-top  navbar-expand-lg navbar-light" style="background-color: #e3f2fd;">
  37               <a class="navbar-brand" href="#">MyBudget</a>
```

```html
67              </div>
68            </li>
69          </ul>
70          <div class="form-inline my-5 my-lg-1" style="position: absolute; left: 1250px;">
71          <ul class="navbar-nav mr-auto "  >  <li class="nav-item dropdown btn-group open">
72          <a class="btn btn-primary" href="#"><i class="fa fa-user fa-fw"></i>User </a>
73       <a class="btn btn-primary dropdown-toggle "href="#" id="navbarDropdown"  data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">
74
75       </a>
76
77              <div class="dropdown-menu" aria-labelledby="navbarDropdown">
78                <a class="dropdown-item" href="#">Profile</a>
79                <a class="dropdown-item" href="#">Settings</a>
80                <a class="dropdown-item" href="#">Contact-Us</a>
81                <div class="dropdown-divider"></div>
82                <a class="dropdown-item" style="color: ▢darkred;" href="/logout">Log-Out <i class="fa fa-sign-out" aria-hidden="true"></i></a>
83              </div>
84            </li>
85
86
87            <div>
88          </ul>
89        </div>
90
91        </div>
92      </nav>
93    </body>
94    </html>
95    <style>
96
97        H1 {
98          position: relative;
99          right: -790PX;
100         top: -400PX;
101         color: ▢RED;
102
103       }
```

```css
32        .container .cover{
33          position: absolute;
34          top: 0;
35          left: 50%;
36          height: 100%;
37          width: 50%;
38          z-index: 98;
39          transition: all 1s ease;
40          transform-origin: left;
41          transform-style: preserve-3d;
42        }
43        .container #flip:checked ~ .cover{
44          transform: rotateY(-180deg);
45        }
46        .container .cover .front,
47        .container .cover .back{
48          position: absolute;
49          top: 0;
50          left: 0;
51          height: 100%;
52          width: 100%;
53        }
54        .cover .back{
55          transform: rotateY(180deg);
56          backface-visibility: hidden;
57        }
58        .container .cover::before,
59        .container .cover::after{
60          content: '';
61          position: absolute;
62          height: 100%;
63          width: 100%;
64          background: ▢#7d2ae8;
65          opacity: 0.5;
66          z-index: 12;
67        }
68        .container .cover::after{
```

```html
1   <!DOCTYPE html>
2   <!-- Created by CodingLab |www.youtube.com/c/CodingLabYT-->
3   <html lang="en" dir="ltr">
4     <head>
5       <meta charset="UTF-8">
6       <!--<title> Login and Registration Form in HTML & CSS | CodingLab </title>-->
7       <style>/* Google Font Link */
8         @import url('https://fonts.googleapis.com/css2?family=Poppins:wght@200;300;400;500;600;700&display=swap');
9         *{
10          margin: 0;
11          padding: 0;
12          box-sizing: border-box;
13          font-family: "Poppins" , sans-serif;
14        }
15        body{
16          min-height: 100vh;
17          display: flex;
18          align-items: center;
19          justify-content: center;
20          background: #7d2ae8;
21          padding: 30px;
22        }
23        .container{
24          position: relative;
25          max-width: 850px;
26          width: 100%;
27          background: #fff;
28          padding: 40px 30px;
29          box-shadow: 0 5px 10px rgba(0,0,0,0.2);
30          perspective: 2700px;
31        }
32        .container .cover{
33          position: absolute;
34          top: 0;
35          left: 50%;
36          height: 100%;
37          width: 50%;
```

```html
38
39
40    <!-- Hero Section  -->
41    <section id="hero">
42      <div class="hero container">
43        <div>
44          <h1>Welcome To <span></span></h1>
45          <h1> Personal Expense Tracker Application <span></span></h1>
46          <a href="login.html" type="button" class="cta">sign up</a>
47        </div>
48      </div>
49    </section>
50    <!-- End Hero Section  -->
51  </body>
52  <script>
53    {
54      "apikey"; "zUTm4r47LxH4yxIswf_Pe0pWwMOsKJOsA8-7LRmnxtFx",
55      "iam_apikey_description";"Auto-generated for key crn:v1:bluemix:public:conversation:us-south:a/965a01b1ebab4609ae8d85cf522eec8d:6b480182-252a-4295-a116-5beb8408a9b8:res
56      "iam_apikey_name"; "Auto-generated service credentials",
57      "iam_role_crn"; "crn:v1:bluemix:public:iam:::serviceRole:Manager",
58      "iam_serviceid_crn"; "crn:v1:bluemix:public:iam-identity::a/965a01b1ebab4609ae8d85cf522eec8d::serviceid:ServiceId-4fce1828-d323-488b-8b27-455f2f93677f",
59      "url";"https://api.us-south.assistant.watson.cloud.ibm.com/instances/6b480182-252a-4295-a116-5beb8408a9b8"
60    }
61  </script>
62
63  </html>
64
```

```html
1
2    <!DOCTYPE html>
3    <html lang="en">
4
5    <head>
6      <meta charset="UTF-8">
7      <meta name="viewport" content="width=device-width, initial-scale=1.0">
8
9
10     <link rel="stylesheet" href="..\static\css\home.css">
11     <title>Expense Tracker</title>
12   </head>
13
14   <body>
15     <!-- Header -->
16     <section id="header">
17       <div class="header container">
18         <div class="nav-bar">
19           <div class="brand">
20             <a href="#hero">
21               <h1><span>TRACKER</span> <span></span>APPLICATION</h1>
22             </a>
23           </div>
24           <div class="nav-list">
25             <div class="hamburger">
26               <div class="bar"></div>
27             </div>
28             <ul>
29               <li><a class="btn" href="home.html">Home</a></li>
30               <LI><a class="btn" href="login.html">Login</a></LI>
31
32             </ul>
33           </div>
34         </div>
35       </div>
36     </section>
37     <!-- End Header -->
```

```javascript
253              balance.innerText = `$${total}`;
254              money_plus.innerText = `$${income}`;
255              money_minus.innerText = `$${expense}`;
256          }
257
258          // Remove transaction by ID
259          function removeTransaction(id) {
260              transactions = transactions.filter(transaction => transaction.id !== id);
261
262              updateLocalStorage();
263
264              init();
265          }
266
267          // Update local storage transactions
268          function updateLocalStorage() {
269              localStorage.setItem('transactions', JSON.stringify(transactions));
270          }
271
272          // Init app
273          function init() {
274              list.innerHTML = '';
275
276              transactions.forEach(addTransactionDOM);
277              updateValues();
278          }
279
280          init();
281
282          form.addEventListener('submit', addTransaction);</script>
283    </body>
284    </html>
285
286
```

```css
107      .btn:focus,
108      .delete-btn:focus {
109        outline: 0;
110      }
111
112      .list {
113        list-style-type: none;
114        padding: 0;
115        margin-bottom: 40px;
116      }
117
118      .list li {
119        background-color: #fff;
120        box-shadow: var(--box-shadow);
121        color: #333;
122        display: flex;
123        justify-content: space-between;
124        position: relative;
125        padding: 10px;
126        margin: 10px 0;
127      }
128
129      .list li.plus {
130        border-right: 5px solid #2ecc71;
131      }
132
133      .list li.minus {
134        border-right: 5px solid #c0392b;
135      }
136
137      .delete-btn {
138        cursor: pointer;
139        background-color: #e74c3c;
140        border: 0;
141        color: #fff;
142        font-size: 20px;
143        line-height: 30px;
```

```html
1    <!DOCTYPE html>
2    <html>
3    <head>
4        <title>history</title>
5        <style>\@import url('https://fonts.googleapis.com/css?family=Lato&display=swap');
6
7            :root {
8                --box-shadow: 0 1px 3px rgba(0, 0, 0, 0.12), 0 1px 2px rgba(0, 0, 0, 0.24);
9            }
10
11            * {
12                box-sizing: border-box;
13            }
14
15            body {
16                background-color: #f7f7f7;
17                display: flex;
18                flex-direction: column;
19                align-items: center;
20                justify-content: center;
21                min-height: 100vh;
22                margin: 0;
23                font-family: 'Lato', sans-serif;
24            }
25
26            .container {
27                margin: 30px auto;
28                width: 350px;
29            }
30
31            h1 {
32                letter-spacing: 1px;
33                margin: 0;
34            }
35
36            h3 {
```
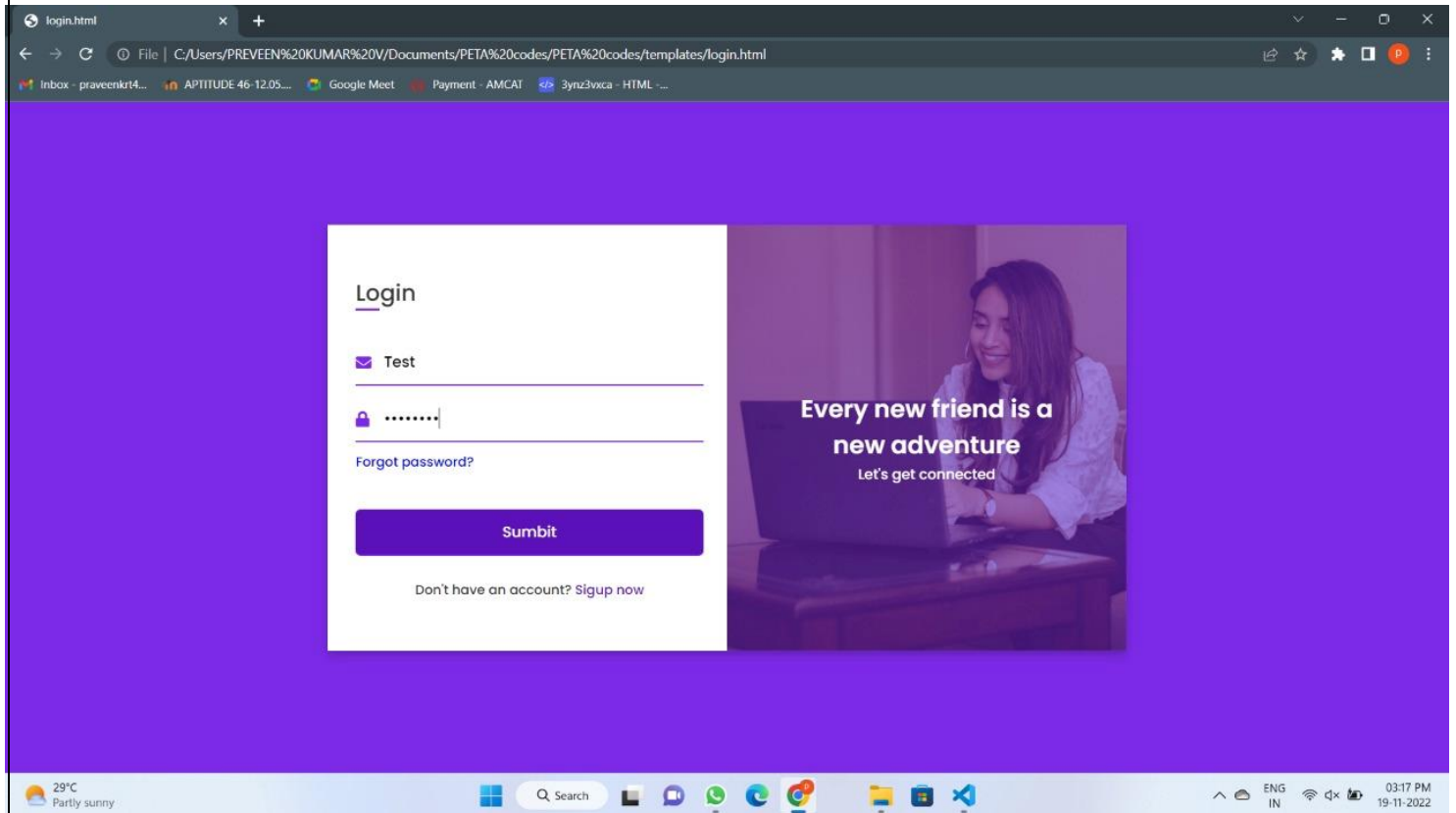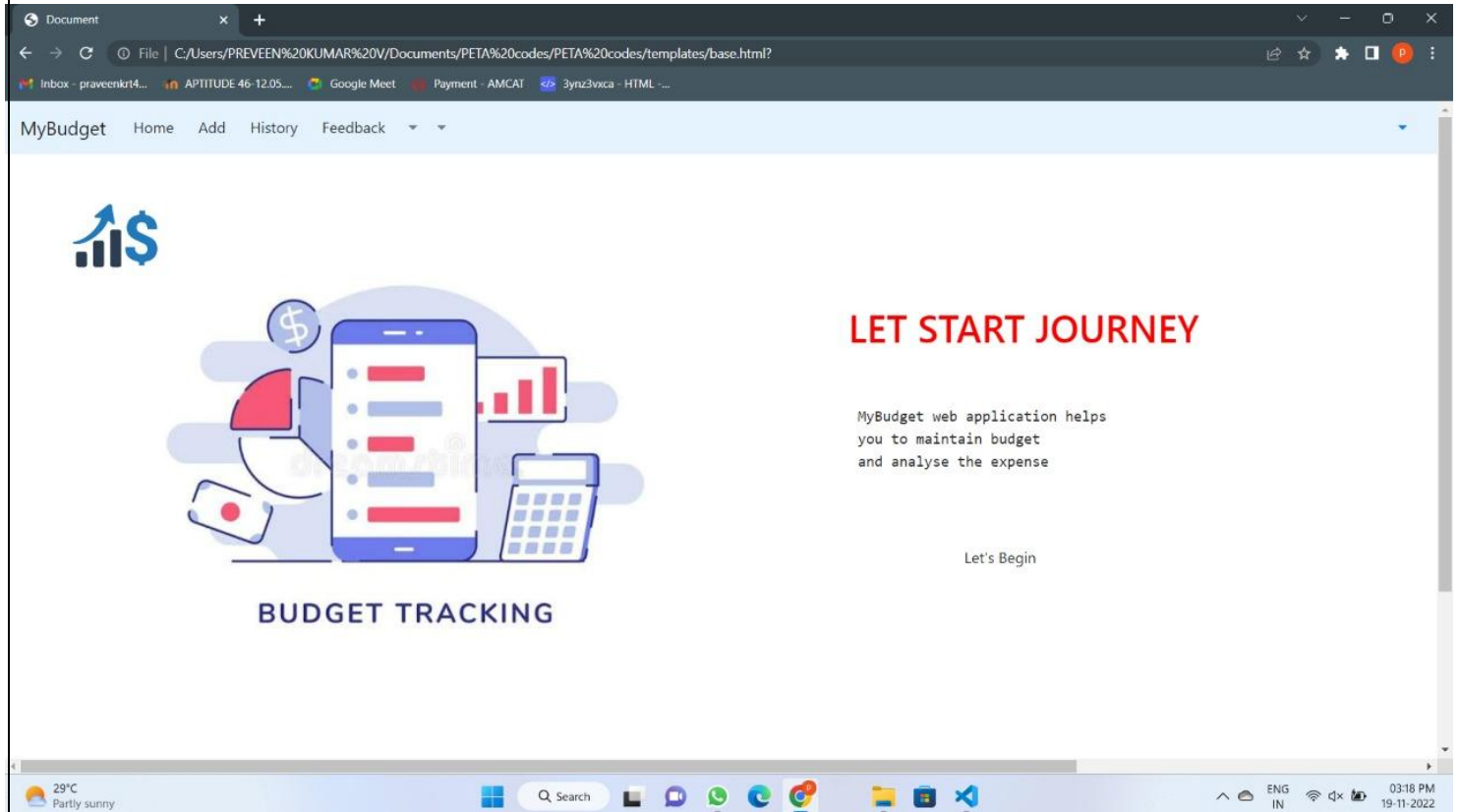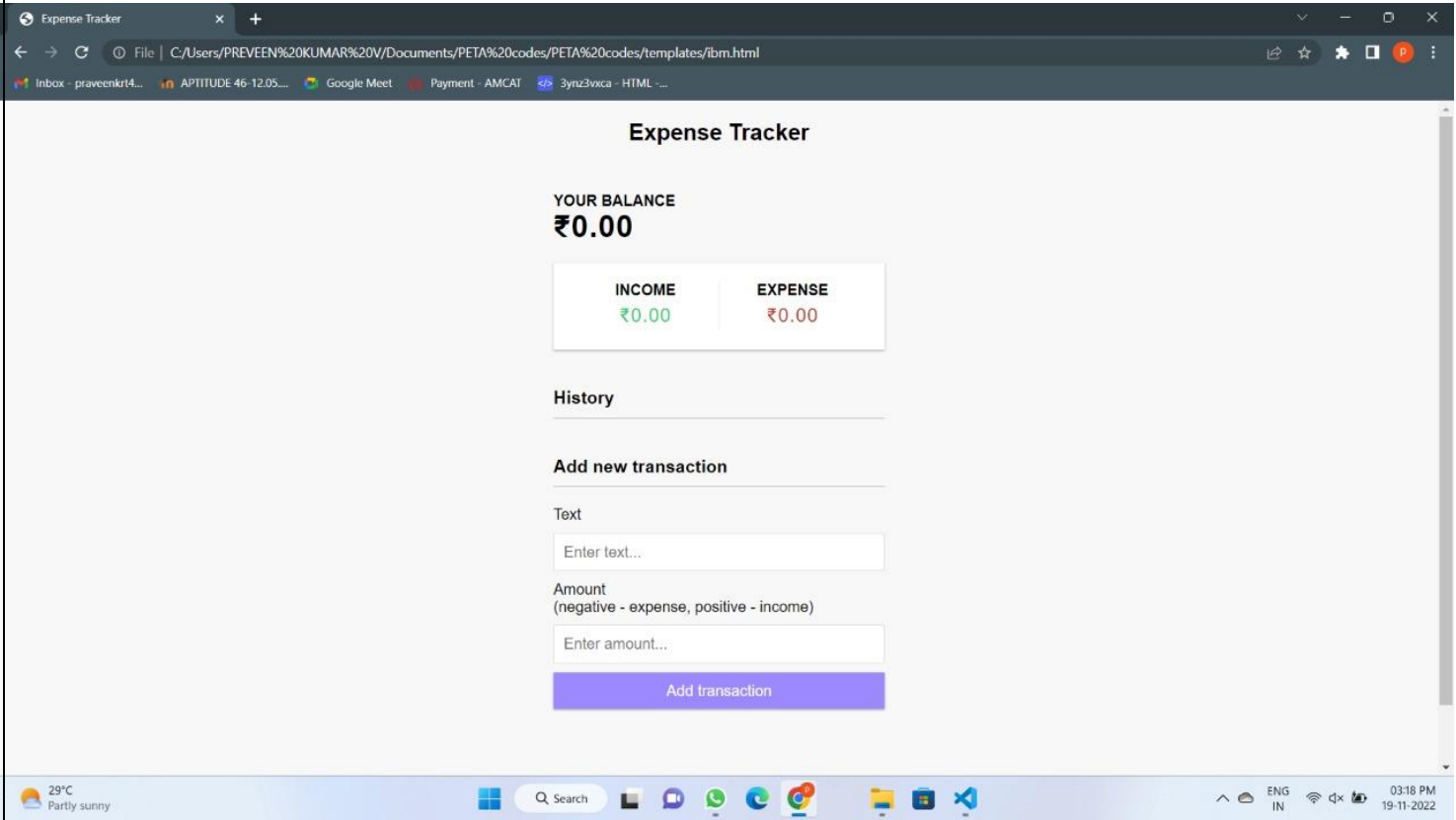
OUTPUT

HOME PAGE
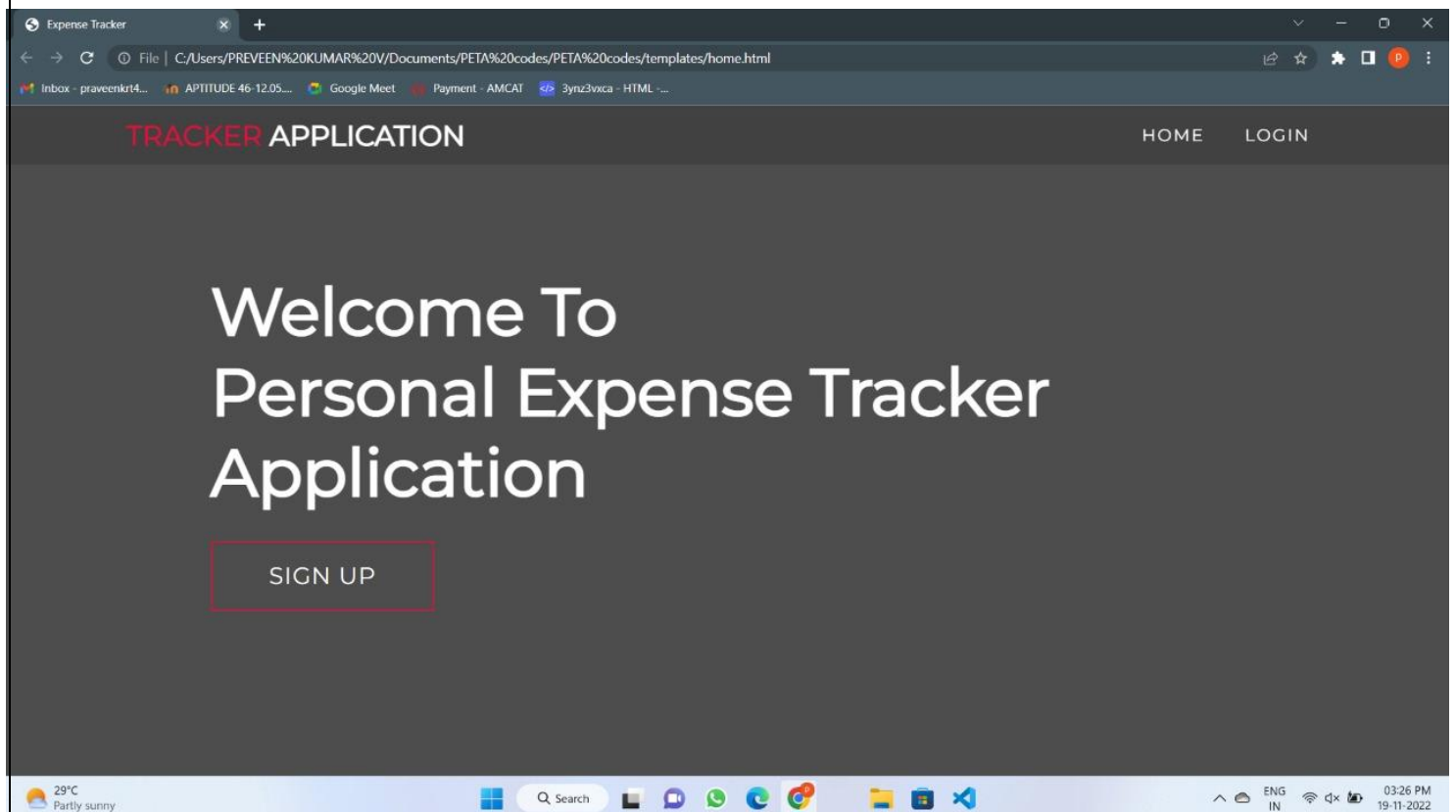
LOGIN PAGE

DASHBOARD

EXPENSE TRACKER

GITHUB: IBM-EPBL/IBM-Project-22217-1659831195

TEAM ID: PNT2022TMID41607

DEMO LINK:
https://drive.google.com/file/d/155_LX3I_6lDlPit7Ht1pFJFXki5CRBM9/view?usp=drivesdk