

1. Introduction:

a. Project Overview

A Daily Expense Tracker is a one kind of digital diary that helps to keep an eye on all of our money related transitions and also provides all 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. The User interface of the Daily Expense Tracker is basic and attractive so it is easy to understand and the best way to record our financial data. A Daily Expense Tracker is a one kind of digital diary that helps to keep an eye on all of our money related transitions and also provides all 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 anytime and any palaces. User interface of the Daily Expense Tracker is very simple and attractive so it is easy to understand and the best way to record our financial data.

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 provides all 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 shown so users can easily access any time and any palaces. User interface of the Daily Expense Tracker is very simple and attractive so it is easy to understand and the best way to record our financial data. Personal Expense tracker provides analysis graph of overall expenditure done on the commodities and other things. The analysis graph provides a comparison of the income earned in that month and also provides expenditure made in higher rate for any particulars. It is also made of such design that will gives the use a popup alert when the expenses go higher than the level that the user fixed. The alarm will help the user control the expenses for the period.

b. Purpose:

This project is based on an expense and income tracking system. This project aims to create an easy, faster and smooth tracking system between the expense and the income. This project also offers some opportunities that will help the user to sustain all financial activities like digital automated diary. So, for the better expense tracking system, we developed our project that will help the users a lot. Most of the people cannot track their expenses and income one way they face a money crisis, in this case Income expense tracker can help the people to track income-expense day to day and making life tension free. Money is the most valuable portion of our daily life and without money we will not last one day on the earth. So, using the Income expense tracker application is important to load a happy family. Income expense tracker helps the user to avoid unexpected expenses and bad financial situations. This Project will save time and provide a responsible lifestyle. This system is made and supervised by the experts and satisfying by the user.

2. LITERATURE SURVEY:

a. Existing problem

All the personal expense tracker application are in the offline so they can able to use it any where without the internet if they mistakenly delete the application or if they miss their phone, they can't able to view the expenses. It is one of the major drawbacks. And also, there is lot of chances for delete their expenses unknowingly. Ans also there is no good-looking user interface in some application and also it is hard to use by the old people. In some application they don't have an oauth facility which means anyone can able to view their expenses.

b. References

Name of Application	Function	Features	Cons
Wallet	The Wallet app is a personal expense tracker application that comes loaded with a ton of features, coupled with a beautiful interface and great customer support.	It's simple to keep track of where your money is going with a wallet. The software will provide you insights into your spending patterns via graphs and visualizations when you link your bank accounts to it. Additionally, you may establish savings objectives, which the app will aid in achieving. Was It Worth It is a wonderful tool that calculates a score for your most recent purchases. Although it is free to download the Android and iOS versions, some of the best features need a membership.	<ul style="list-style-type: none">• Data security.• Data security.• It is incompatible with some credit cards.
Mint	It is a no-cost, user-friendly budgeting programmed that offers automated and individualized categorization of downloaded	Users of Mint may create personalized budgets, keep tabs on their spending, set any required bill-paying reminders, check their credit score, and see how their assets are doing. As	<ul style="list-style-type: none">• Is not compatible with numerous currencies.

	transactions as well as other useful spending monitoring capabilities.	soon as a person logs in, their financial information is instantly updated, and previous transactions are automatically categorized into either already-existing or newly-created groups.	<ul style="list-style-type: none"> • No ability to pay bills.
AndroMoney	AndroMoney is a mobile phone personal financial application. This tool will help us manage our money more effectively.	support for multiple accounts, account transfers, and account balances. Online Storage. Device synchronization. Calculating number pad - Custom attribute-based hierarchical categories. Cash Flow Trend, Pie, and Bar Charts. Password Protection. View your cost and income summary. Save data backups to Excel or Mac Number.	<ul style="list-style-type: none"> • Database synchronizati on error • Unintuitive UI

- **Wallet:** [Wallet Application Link](#)
- **Mint:** [Mint Application Link](#)
- **AndroMoney:** [AndroMoney Application Link](#)
- **Walnut:** [Walnut Application Link](#)

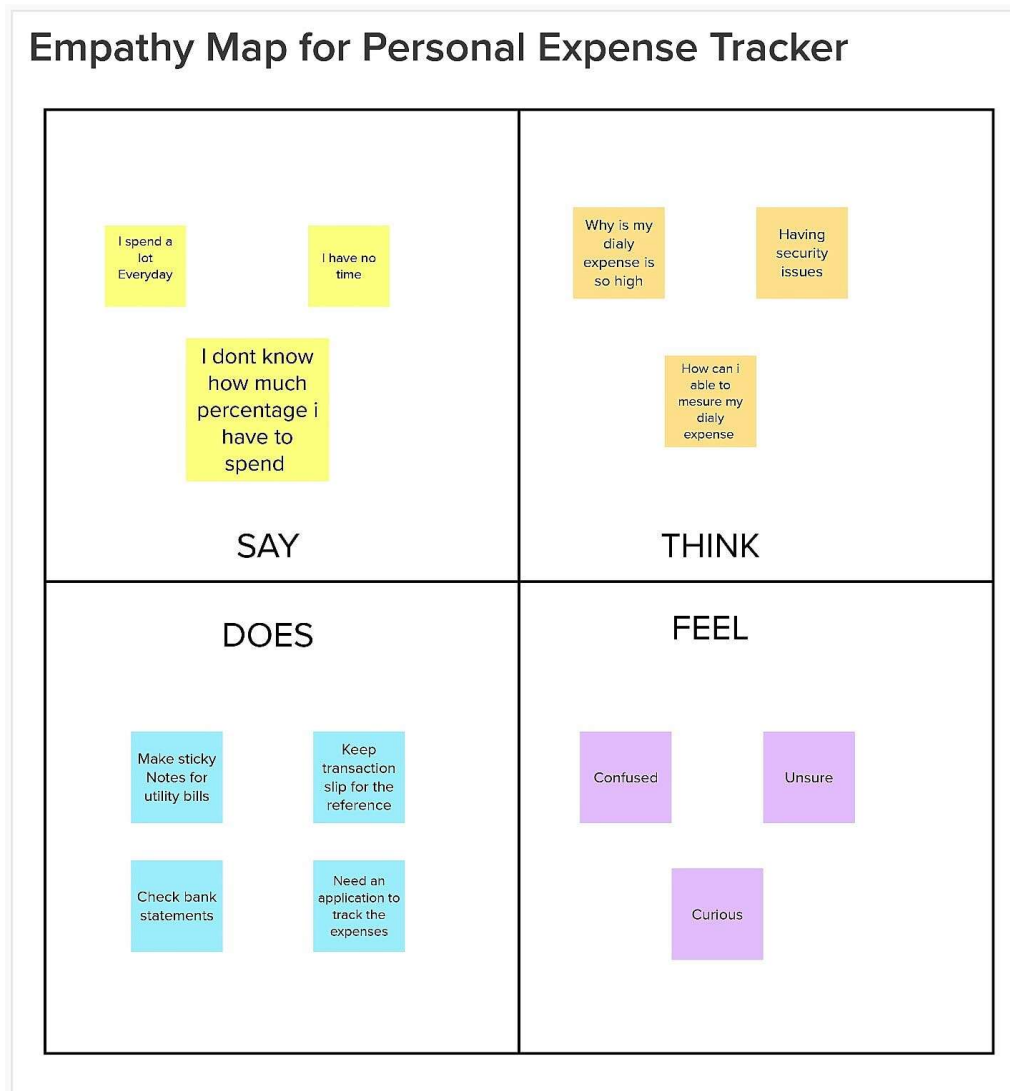
c. Problem Statement Definition

A system for tracking expenses and income is the foundation of this project. The goal of this project is to provide a simple, quick, and seamless tracking system between expenses and revenues. Additionally, this technology provides opportunities like a digital automated diary that will enable the user to maintain all financial operations. Therefore, we created our project, which will greatly assist the users, in order to create a better spending monitoring system. Most people struggle with money problems because they are unable to keep track of their income and costs. In this situation, an income expense tracker can assist people in keeping track of their income and expenses on a daily basis and reducing stress. We cannot survive on earth for even a single day without money, which is the most valuable aspect of our daily lives. Therefore, employing the Income expense tracker tool is crucial for a content family. The user of an income expense tracker might avoid unforeseen costs and difficult

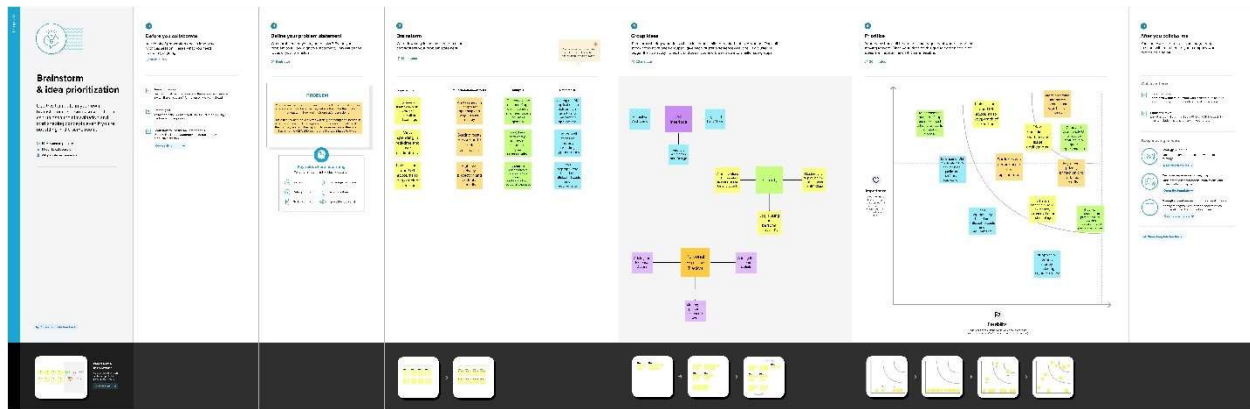
financial situations. Time will be saved and a responsible lifestyle will be offered through this project. This system was created, is under the supervision of specialists, and is user-satisfying.

3. IDEATION & PROPOSED SOLUTION

a. Empathy Map Canvas



b. Ideation & Brainstorming



c. Proposed Solution

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	It is difficult to manage the monthly Expense in the paper form. And also, the paper/hand written may be lost.
2.	Idea / Solution description	Application designed to use by the large-scale people with the small or large amount of data. And also give the graphical representation. It gives the alert when the expense is over the budget. Generate the Expense report to make their tracking. When the user sees the graphical representation, it will be easy for the user to understand.
3.	Novelty / Uniqueness	User gets notify when the expense is exceeds the budget threw the main or SMS to the registered email/phone.
4.	Social Impact / Customer Satisfaction	<p>The programmer should be able to produce reports on users' spending and alert them when they go over their budget. In order to create the forecast, it is intended to be dynamic. Additionally, it offers users' personal data, their earnings, and their spending. This programmer can educate regular people about money and other topics.</p> <p>Additionally, this software supports user financial responsibility. As opposed to manually inputting information, it saves time.</p>

5.	Business Model (Revenue Model)	This application is offered without charge. However, there will be some advertising. The premium edition has extra features and is free of advertisements.
6.	Scalability of the Solution	This programmer has the performance and security to manage a huge number of users and data. This programmer may be configured for both large- and small-scale uses. Simple to access on a variety of devices.

d. Problem Solution fit

Problem - Solution fit		Team Id :PNT2022TMID14045		Purpose / Vision	
1.CUSTOMER SEGMENT(S): CS People who are struggling to track them expenses are our customers. They can use our app to maintain records about their income and expenses.		6. CUSTOMER CC Enter the record manually. The person who is Using the System must have the some technical Knowledge		5. AVAILABLE SOLUTIONS AS User can able to add the expence. But they can't able to set the expense limit in the application.	
2.PROBLEMS: J&P In paper-based expense tracker system it is difficult to track us monthly expenses manually. The paper-based expense records may get lost in some extent. And also, it is very difficult to manage.		9. PROBLEM ROOT CAUSE RC The main cause of the problem is if we make the note of our expense in an paper/hand written it may have the chance of missing or can be destroyed. And also it took lot of time to progress it.		7. BEHAVIOUR BE We usually take the expense in the notes app. Or otherwise we ask others to remember the expenses. these are some of the methods we are usually following.	
3. TRIGGERS TR Create an awareness between the people about their Expenses and income.		10. YOUR SOLUTION SL Our application is used to monitor the dialy expense with some graphical representation. And also we notify the user when he/she spends extra amount on something. We generate the expense reports.		8.CHANNELS of BEHAVIOUR CH 8.1 ONLINE Download statements from bank and pay monthly installment 8.2 OFFLINE Using spreadsheets and notes for financial management	
4. EMOTIONS: BEFORE / AFTER EM Confusion, Difficult to manage / Easy to manage, Able to visualize the Expense.					

Available Solution: User can able to add expense. But they can't able to set the limit of their expenses in their application.

Problem root cause: The main cause of the problem is if we make the note of our expense in a paper it may have the chance of missing or can be destroyed. And also, it took lot of time to progress it.

Customer Segment: People who are struggling to track them expenses are our customers. They can use our app to maintain records about their income and expenses.

Problem: In paper-based expense tracker system it is difficult to track monthly expenses manually. The paper-based expenses records may get lost in some extent. And also, it is very difficult to manage.

Triggers: Create an awareness between the people about their expenses and income.

Emotions: Confusion, difficult to manage/ easy to manage, able to visualize the expense.

Customer: Enter the record manually. The person who is using the system must have the same technical knowledge.

4. REQUIREMENT ANALYSIS:

a. Functional requirement

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

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail Registration through Email Account
FR-2	User Confirmation	Confirmation via Email
FR-3	Calendar	Personal expense tracker application must allow user to add the data to their expenses.
FR-4	Graphical Representation	This application should graphically represent the expense in the form of report.
FR-5	Report Generation	Graphical representation of report must be generated.
FR-6	Category	This application shall allow users to add categories of their expenses.

b. Non-Functional requirements

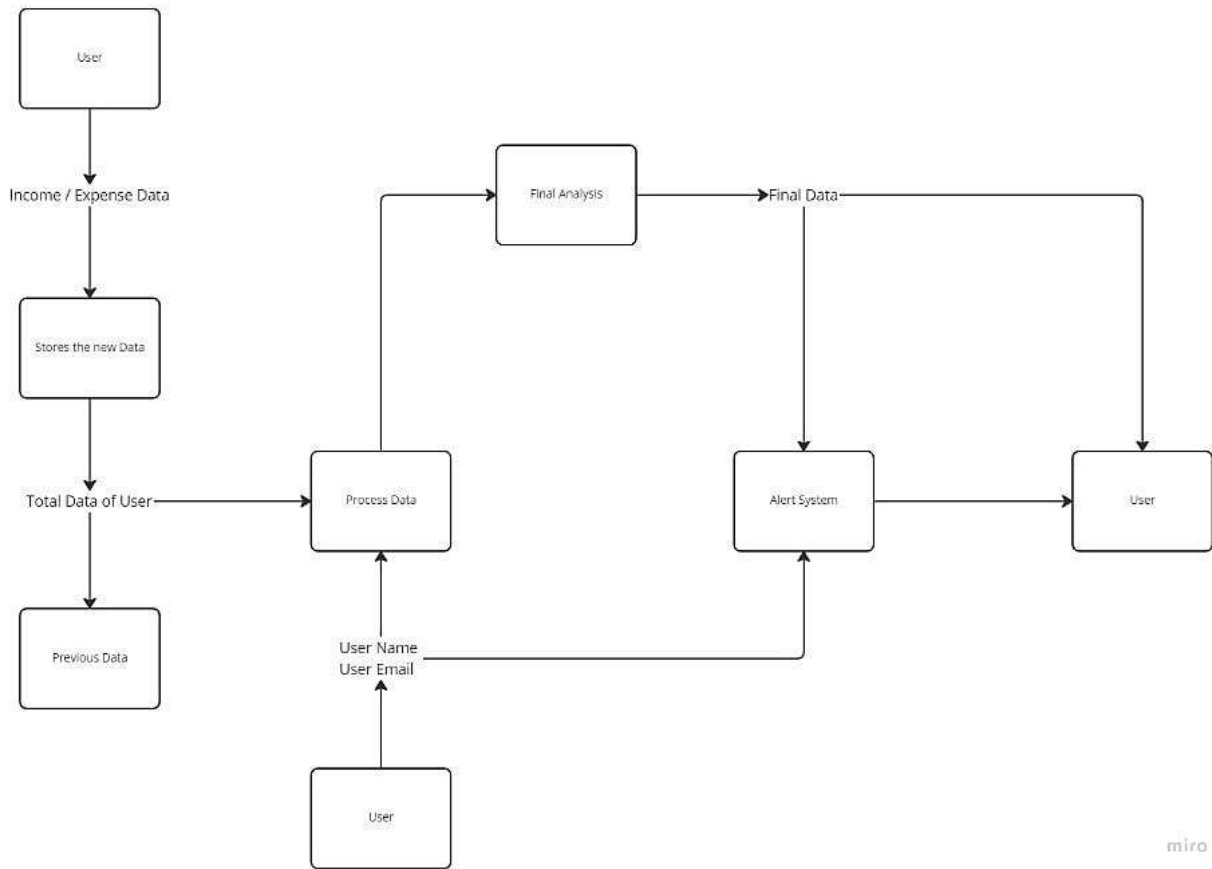
These are the quality constraints that the system must satisfy according to the project contract. The priority or extent to which these factors are implemented varies from one project to other. They are also called non-behavioral requirements.

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

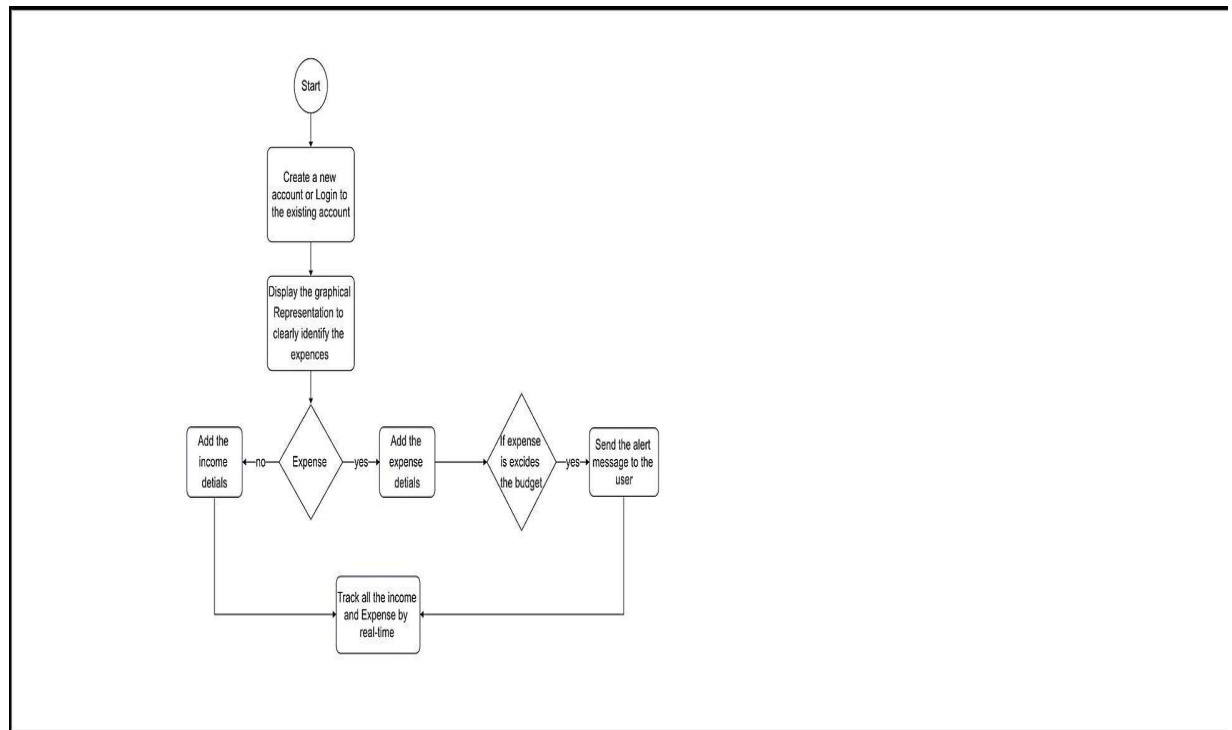
FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Helps to keep an accurate record and track of their income and expenses easily.
NFR-2	Security	We save the password in the encrypted form so it will add more secure to the application user.
NFR-3	Reliability	Each data record is stored on a well-built efficient database schema. There is no risk of data loss.
NFR-4	Performance	Expense kinds include categories and an option. The system's throughput is boosted because to the lightweight database support.
NFR-5	Availability	User can able to access the application with the help of the internet throw the web browser.
NFR-6	Scalability	The ability to appropriately handle increasing demands.

5. PROJECT DESIGN

a. Data Flow Diagrams



b. Solution & Technical Architecture



c. User Stories

- i. Rajesh, who is Shopaholic, he always tries hard to control the over expense. To stop him from overindulging in impulsive purchases, he must track his expense.
- ii. Ram, who is interest in cryptocurrency. he always hard to find the expenses that he had previously invested currency. If there was an application to track the expense it helps him a lot.
- iii. High school student Ramya often receives a little stipend from his parents. So, he can spend on both his normal bills and himself since he keeps track of his spending and uses smart budgeting techniques.

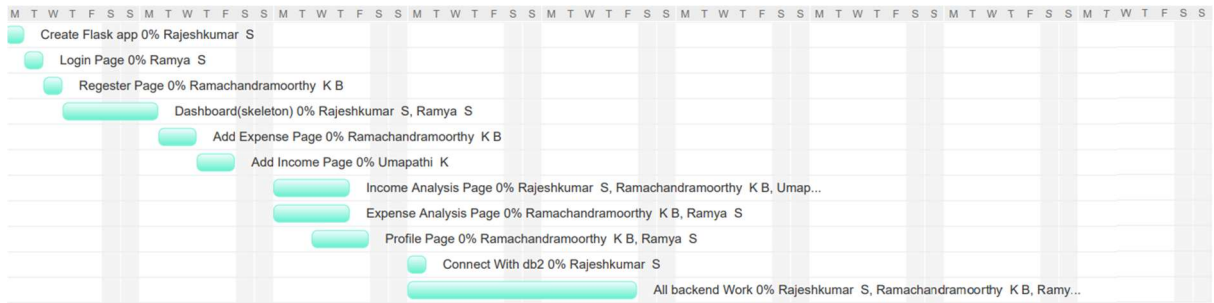
6. PROJECT PLANNING & SCHEDULING

6.1 Sprint Plan & Estimation

Sprint	Functional Requirements (Epic)	User story number	User Story/ Task	Story Point	Priority	Team members
S-1	Login / signup	USN-1	The login page allows a user to gain access to an application by entering their username and password	20	High	Rajeshkumar S Ramachandramoorthy K B Ramya S Umapathi K
S-2	Dashboard / Profile	USN-2	The user can use the dashboard as the visual display for the all kind of their data visualization	20	High	Rajeshkumar S Ramachandramoorthy K B Ramya S Umapathi K
S-2	Analysis page	USN-3	The user can able to view the expense and income in the graphical representation	20	High	Rajeshkumar S Ramachandramoorthy K B Ramya S Umapathi K
S-3	Backend Works	USN-4	All the back-end connectivity's like send grid, chatbot, etc.....	20	High	Rajeshkumar S Ramachandramoorthy K B Ramya S Umapathi K

a. Sprint Delivery Schedule

Sprint	Total Story Points	Duration	Sprint Start Date	End-Date	Release Date
S-1	20	6 Days	24 Oct 2022	29 Oct 2022	29 Oct 2022
S-2	20	6 Days	31 Oct 2022	05 Nov 2022	05 Nov 2022
S-3	20	6 Days	07 Nov 2022	12 Nov 2022	12 Nov 2022
S-4	20	6 Days	14 Nov 2022	19 Nov 2022	1. Nov 2022



7. CODING & SOLUTIONING (Explain the features added in the project along with code)

7.1 Feature 1

We can able to analysis each expense and income between two dates. With the help of that graph, we can able to understand the income level easily and the expense level. And also, It is enchanting. Here we use the chart from the chart.js which is very easy to add it into your web page it and it will dynamically change the graph according to the data given to the graph.

Code:

```
<script>
  va = '{{session["expensedatmth"]}}'
  va = va.replaceAll('&#39;', '')
  metadata = JSON.parse(va)
  // console.log(mthdata[mthdata.length-1])
  document.getElementById('start_date').value = String(mthdata[0]);
  document.getElementById('end_date').value = String(mthdata[mthdata.length - 1]);
  // labels = '{{session["expensedate"]}}';
  // labels = JSON.parse(labels)
  datas = JSON.parse('{{session["expensevalue"]}}')
  const data = {
    labels: mthdata,
    datasets: [{
      label: 'Expenses',
      data: datas,
```

```

        backgroundColor: '#ff006f1c',
        borderColor: '#FF006F',
        pointBackgroundColor: '#FF006F',
        pointHitRadius: '30',
        fill: true,
        tension: 0.3
    }]
};
function filterData() {
    const dates2 = [...mthdata];
    // console.log(dates2);
    const startdate = document.getElementById('start_date');
    const enddate = document.getElementById('end_date');
    // console.log(indexstartdate);
    var startDate = new Date(startdate.value.toString());
    var endDate = new Date(enddate.value.toString());
    var resultProductData = dates2.filter(a => {
        var date = new Date(a);
        return (date >= startDate && date <= endDate);
    });
    // console.log(resultProductData)
    const indexstartdate = dates2.indexOf(resultProductData[0]);
    // console.log(startDate)
    const indexenddate = dates2.indexOf(resultProductData[resultProductData.length-
1]);
    const filteredDate = dates2.slice(indexstartdate, indexenddate + 1);
    const val = [...datas]
    const filteredval = val.slice(indexstartdate, indexenddate + 1);
    // console.log(indexenddate)
    myChart.config.data.labels = filteredDate;
    myChart.config.data.datasets[0].data = filteredval;
    myChart.update();
}
const config = {
    type: 'line',
    data: data,
    options: {
        responsive: true,
        maintainAspectRatio: false
    }
};
const myChart = new Chart(
    document.getElementById('myChart'),
    config
);
</script>

```

a.SendGrid

SendGrid is a cloud-based SMTP solution that enables you to send email without the need for email servers. SendGrid handles all technical aspects, from infrastructure scalability to ISP outreach and reputation monitoring to whitelist services and real-time analytics. SendGrid offers two methods for sending email: via our SMTP relay or via our Web API. SendGrid offers client libraries in a variety of languages. This is the recommended method of integrating with SendGrid. If you prefer to use SendGrid without a client library, the Web API is recommended in most circumstances since it is quicker, has certain encoding benefits, and is generally easier to use. SMTP has numerous functions by default, but it is more difficult to set up.

Web API

- The Web API has some advantages over SMTP
- If your ISP blocks all outbound mail ports and your only option is HTTP.
- If there is high latency between your site and ours, the Web API might be quicker since it does not require as many messages between the client and server.
- If you do not control the application environment and cannot install and configure an SMTP library.
- If you build a library to send email, developing against a web API provides quicker development.

SMTP Relay

- If you are integrating SendGrid with an existing application, setting up the application to use our SMTP relay is easiest, as it only requires modifying SMTP configuration.
- Change your SMTP username and password to your SendGrid credentials.
- Set the server host name to smtp.sendgrid.net
- Use ports 25 or 587 for plain/TLS connections and port 465 for SSL connections.

Code:

```
import sendgrid
from sendgrid.helpers.mail import *

def mailtest_request(to_email):
    sg = sendgrid.SendGridAPIClient(api_key= 'API_KEY' )
```

```

from_email = Email("to_email@gmail.com")
subject = "Budget Alert !"
content = Content("text/plain", "Your Expense is out of Budget !")
try:
    mail = Mail(from_email, to_email, subject, content)
    response = sg.client.mail.send.post(request_body=mail.get())
    # print(response.status_code)
    # print(response.body)
    # print(response.headers)
    print("Mail send Successfully !")
except:
    print("Error While sending Mail !")

```

a. Database Schema (if Applicable)

USER		INCOME		EXPENSE	
UUSERID	varchar	INCOMEID	varchar	EXPENSEID	varchar
UEMAIL	varchar	INCOMEAMOUNT	varchar	EXPENSEAMOUNT	varchar
UPASSWORD	varchar	INCOMEDATE	varchar	EXPENSEDATE	varchar
UPHONE	varchar	INCOMENOTE	varchar	EXPENSENOTE	varchar
UBUDGET	varchar	USERID	varchar	USERID	varchar
UNAME	varchar	INCOMECATEGORY	varchar	EXPENSECATEGORY	varchar
		CATEGORYID	varchar	CATEGORYID	varchar

USER Table:

Error: There is an internal error. Review the logs for more information.

Show logs

Find schemas or tables

Refresh

Schemas

Tables

New table +

Name

Schema

Properties

EXPENSE

XJK42376

...

INCOME

XJK42376

...

USER

XJK42376

...

Total: 3, selected: 0

Table definition

USER

Approximate 3 rows (32.0 KB)
Updated on 2022-11-17 10:45:29

Name	Data type	Nullable	Length	Scale
UNAME	VARCHAR	Y	255	0
UEMAIL	VARCHAR	Y	255	0
UPASSWORD	VARCHAR	Y	255	0
UUSERID	VARCHAR	N	255	0
UPHONE	VARCHAR	Y	255	0
UBUDGET	VARCHAR	Y	255	0

View data

INCOME Table:

Error: There is an internal error. Review the logs for more information.

Show logs

Find schemas or tables

Refresh

Schemas

Tables

New table +

Name

Schema

Properties

EXPENSE

XJK42376

...

INCOME

XJK42376

...

USER

XJK42376

...

Total: 3, selected: 0

Table definition

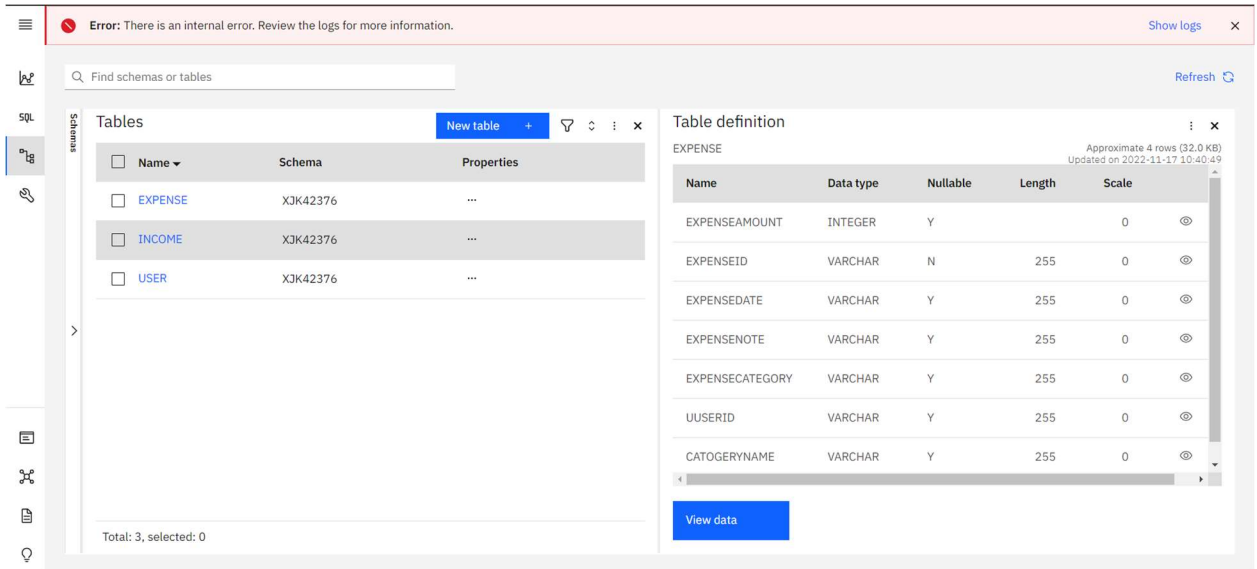
INCOME

Approximate 5 rows (32.0 KB)
Updated on 2022-11-18 01:15:45

Name	Data type	Nullable	Length	Scale
INCOMEAMOUNT	INTEGER	Y		0
INCOMEID	VARCHAR	N	255	0
INCOMEDATE	VARCHAR	Y	255	0
INCOMENOTE	VARCHAR	Y	255	0
INCOMECATEGORY	VARCHAR	Y	255	0
UUSERID	VARCHAR	Y	255	0
CATOGERYNAME	VARCHAR	Y	255	0

View data

EXPENSE Table:



8. TESTING

TEST ID	FEATURE / MODEL	DESCRIPTION OF TASKS	CONDITION	EXPECTED RESULTS	RESULT	DEFECT / COMMENTS / ADDITIONS	BUG ID
1	Register Page	A signup page (also known as a registration page) enables users and organizations to independently register and gain access to your system. It is common to have multiple signup pages depending on the types of people and organizations you want to register.	New User Register	Enter their data to the user Table	Pass	Everything is working Fine	Nil
			Already Registered User	Ask the user to log in	Pass		Nil

2	Login Page	The login page allows a user to gain access to an application by entering their username and password or by authenticating using a social media login.	If the entered email id and password match with the data in the database.	Move to the dashboard	Pass	Working good	Nil
			If the entered email id and password not match with any of the data in the database.	show the error message	Pass	Comments: After the error message move the user to the login page.	Nil
3	Dashboard Page	In this dashboard we can be able to see the total expense, total income and also the difference between the total expense and the total income. We can be able to add the new income and new expense. And they be able to see the expense list and the income list.	If the user is logged in.	Shows the data's that are related to that logged in user.	Pass	Working fine	Nil
4	Profile Page	In profile page we can be able to view the user details and they can be able to edit their user details except their email id. User can also be able to update their budget.	User can be able to edit the profile.	Change the Name, Phone, Password, Budget	Pass	Comments: After the update show the user that the update alert message not just the normal message at the top.	Nil
			Click Logout Button	Clear the flask session variables and move to the login page	Pass		Nil

5	Income	In Add Income page we can able to add the income and able to describe their category and make the note.	On clicking the Add income button	Add the income to the Income table	Pass	Comments: Display alert message after the addition of details to the table.	Nil
		List Income page displays the all the Income that are entered by the user.	On clicking the Show more button	We can able to go to the List Income page. Which has all the income details	Pass		Nil
		Edit Income page is used to edit the data that have entered earlier.	On click on the income card	After clicking the update button the data that are entered should be modified in the income table	Pass		Nil
6	Expense	In Add Expense page we can able to add the expense and able to describe their category and make the note.	On clicking the Add expense button	Add the expense to the expense table	Pass	Comments: Display alert message after the addition of details to the table.	Nil
		List Expense page displays the all the Expense that are entered by the user.	On clicking the Show more button	We can able to go to the List expense page. Which has all the expense details	Pass		Nil
		Edit Expense page is used to edit the	On click on the expense card	After clicking the update button the data that are	Pass		Nil

		datas that have entered earlier.		enterd should be modified in the expense table			
7	Sendgrid	By using the sendgrid we can able to send the mail to the user. About the Expense is over the budget.		Mail to the user's regestered email	Pass		Nil

b. 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 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	3	4	2	3	20
Duplicate	1	0	3	0	4
External	2	3	0	1	6
Fixed	12	2	4	20	37
Not Reproduced	0	0	1	0	1
Skipped	0	0	4	2	2
Won't Fix	0	5	2	1	8
Totals	24	14	16	27	77

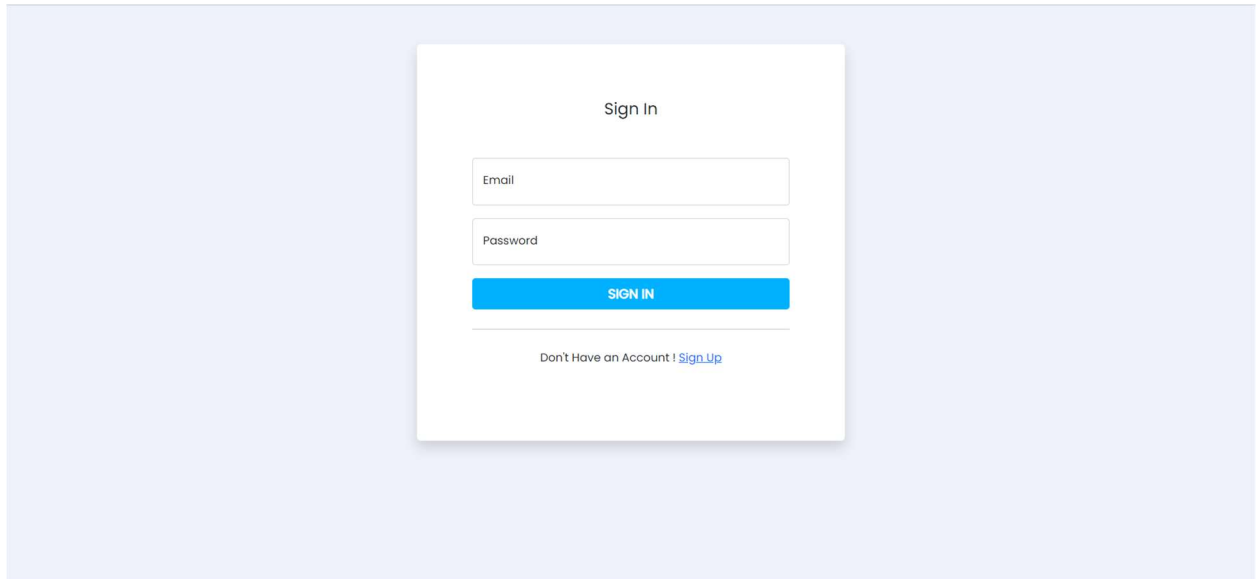
Test Case Analysis

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

Section	Total Cases	Not Tested	Fail	Pass
Print Engine	5	0	0	5
Client Application	30	0	0	30
Security	3	0	0	3
Outsource Shipping	3	0	0	3
Exception Reporting	5	0	0	5
Final Report Output	3	0	0	3

9. RESULTS

a. Sign in Page:

A screenshot of a web application's sign-in page. The page has a light blue background. In the center, there is a white rectangular box with a subtle shadow. Inside this box, the text "Sign In" is centered at the top. Below it, there are two input fields: the first is labeled "Email" and the second is labeled "Password". Both fields are empty. Below the password field is a blue button with the text "SIGN IN" in white, uppercase letters. At the bottom of the white box, there is a link that says "Don't Have an Account ! [Sign Up](#)".

The login page allows a user to gain access to the application by entering their emailid and password . If the entered email id and password that are present in the IBM DB2 database it will allow the user to login to the dashboard otherwise it will shows the user error message that the entered email id or password is wrong. Then the user can able to enter the correct email-id and password.

b. SignUp Page:

Sign Up

Email
19cs123@kpri.ac.in

Name
Rajeshkumar S

Phone
9786814641

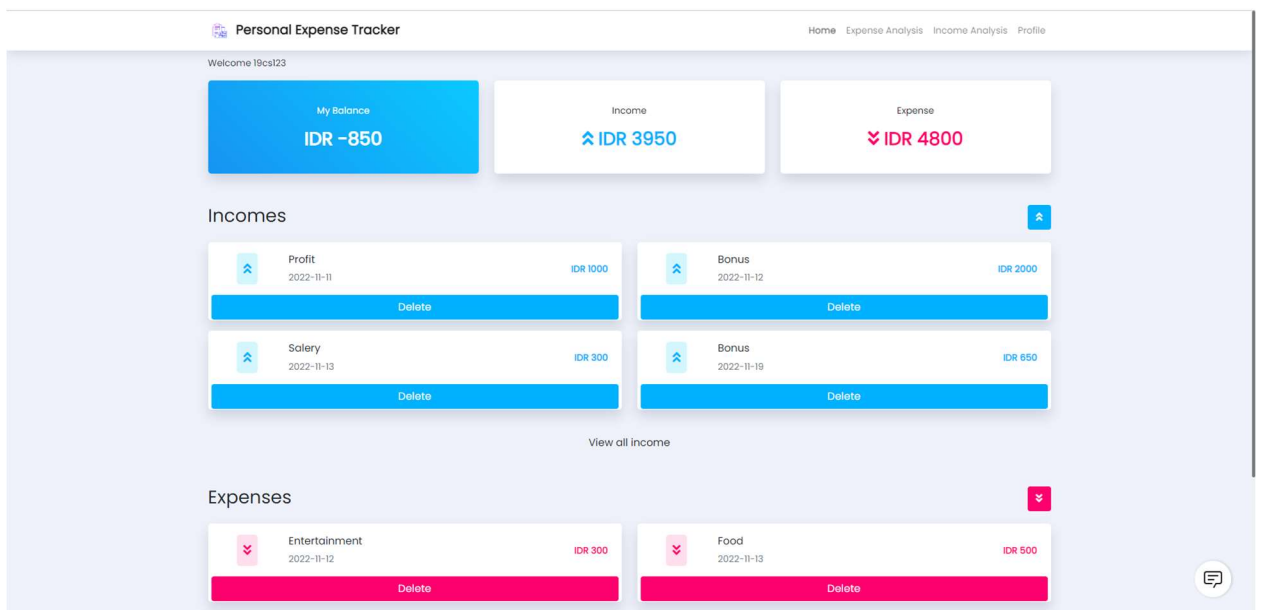
Password

SIGN UP

Already Have an Account ? [Login](#)

A signup page (also known as a registration page) enables users and organizations to independently register and gain access to your application. If the user is already present in the data base ie, the email id it ask us to go to the login page do login.

c. Dashboard Page



In this dashboard we can able to see the list of income and expense. As well as the total income, total expense also my Balance ie the difference between the total income and the total expense.

By clicking on that up arrow button we can able to enter the new income details. By clicking on that income card we can able to update the income details that we have

entered earlier. Like this by using the down arrow button we can able to enter the expense details like date, note, category and also amount. By clicking on that expense card we can able to edit the expense details that are entered earlier.

d. AddExpense Page:

Add Expense
Expense Date
16-11-2022
Expense Category
Movie
Expense Note
movie with friends
Expense Budget
300
Back Submit

By this add expense page we can able to add the new expense to the table. We have to enter each and every details in the add expense page. Then click on the submit button we can able to commit the changes.

e. Add Income Page:

Add Income

Income Date

Income Category

Income Note

Income Budget

It was just like the add expense page once the all the values are enter d then after the submit button is clicked the datas will be saved in the income table .

f. List Income Page:

Personal Expense Tracker

Home

Expense Analysis

Income Analysis

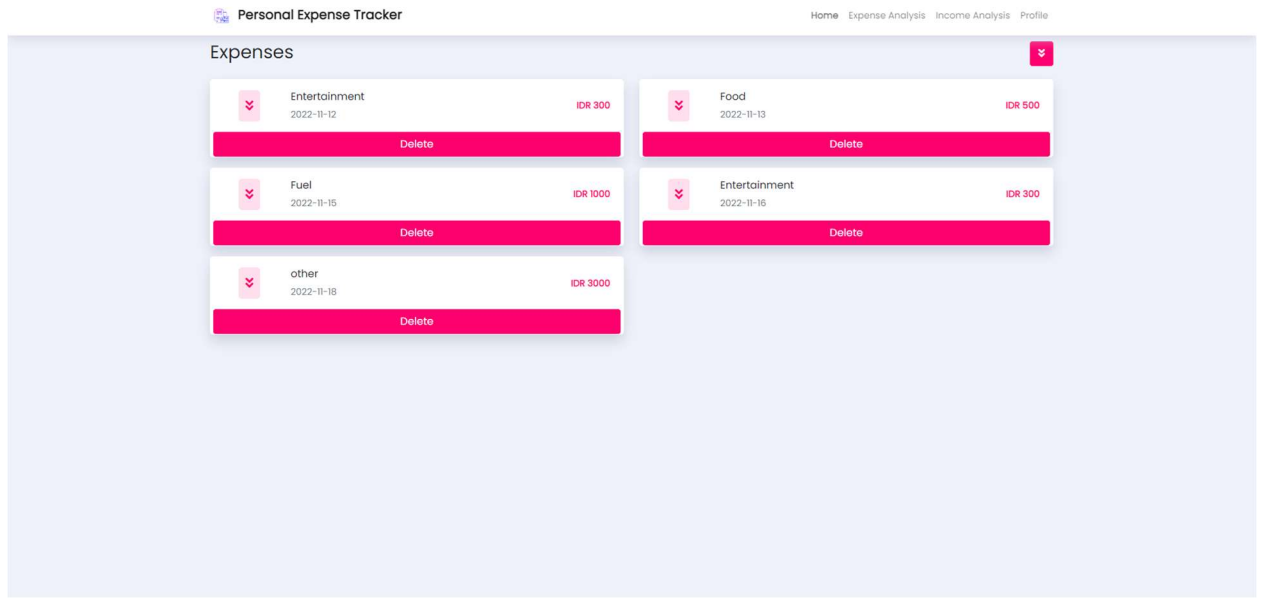
Profile

Incomes

<div><div><div></div></div><div><div>Profit</div><div>2022-11-11</div></div><div>IDR 1000</div></div>	<div><div><div></div></div><div><div>Bonus</div><div>2022-11-12</div></div><div>IDR 2000</div></div>
<div>Delete</div>	<div>Delete</div>
<div><div><div></div></div><div><div>Salery</div><div>2022-11-13</div></div><div>IDR 300</div></div>	<div><div><div></div></div><div><div>Bonus</div><div>2022-11-19</div></div><div>IDR 650</div></div>
<div>Delete</div>	<div>Delete</div>

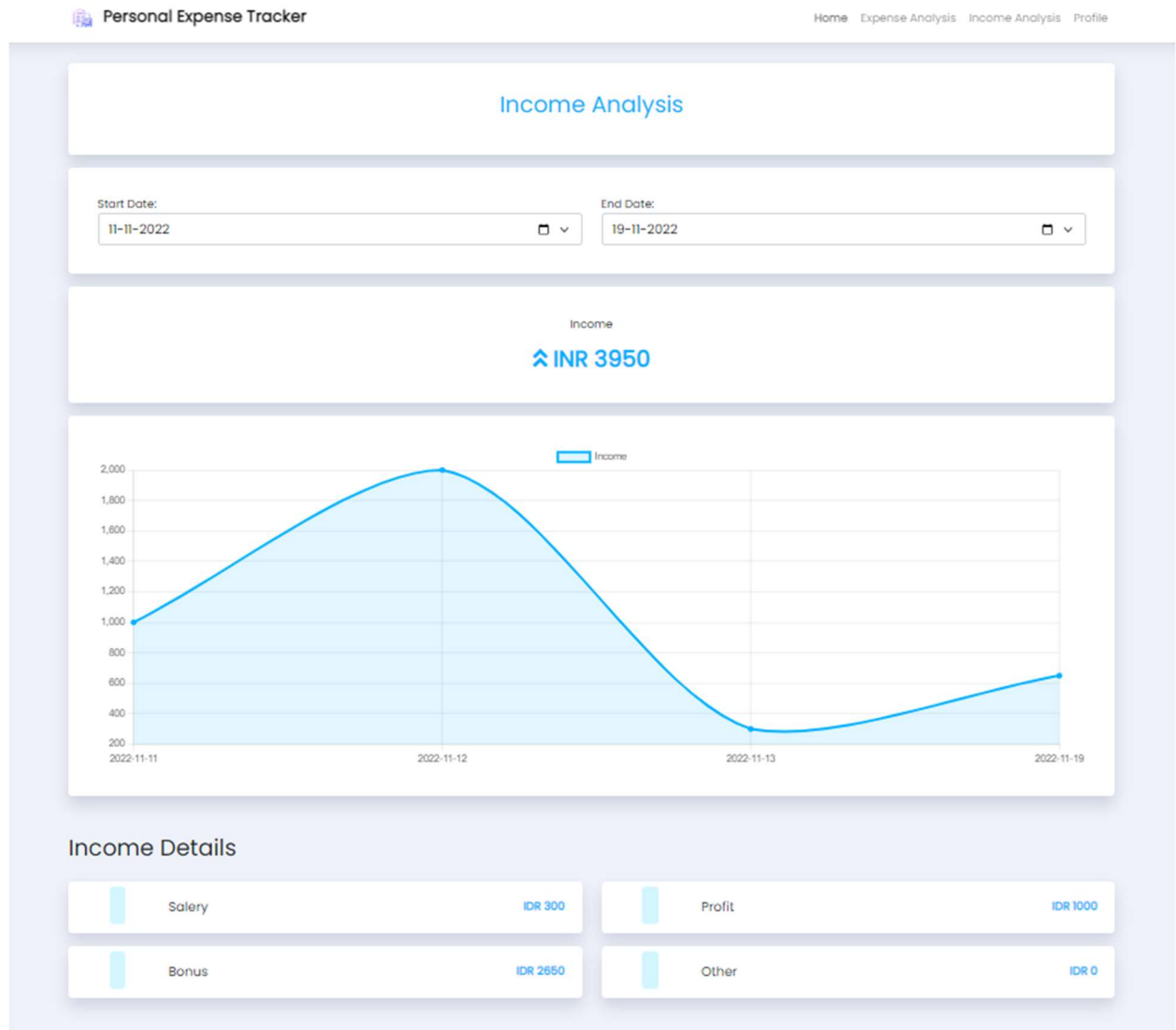
This page will add up and show incomes like profit,salaries,bonus that a person gets from the profit and bonus from salaries.This will show the total income that a person gained in that period of time like month,years.From the income person got he can make budgets for upcoming days.

g. List Expense Page:



This page will list the expenses and helps to track the expenses that an individual made. This expenses Tracker helps the person to know the details in which the person has spend much on what commodities and helps to keep records.

h. Income Analysis Page:



The Income analysis page helps the person to have an detailed graph shows the Profit,bonus and other kind of incomes that a person able to get and know from which time that that a person gains more profits and it will helps to keep track of incomes during peak times and dull times which helps to manage the expenses of the financial times.

i. Expense Analysis Page:

Expense Analysis

Start Date:

12-11-2022



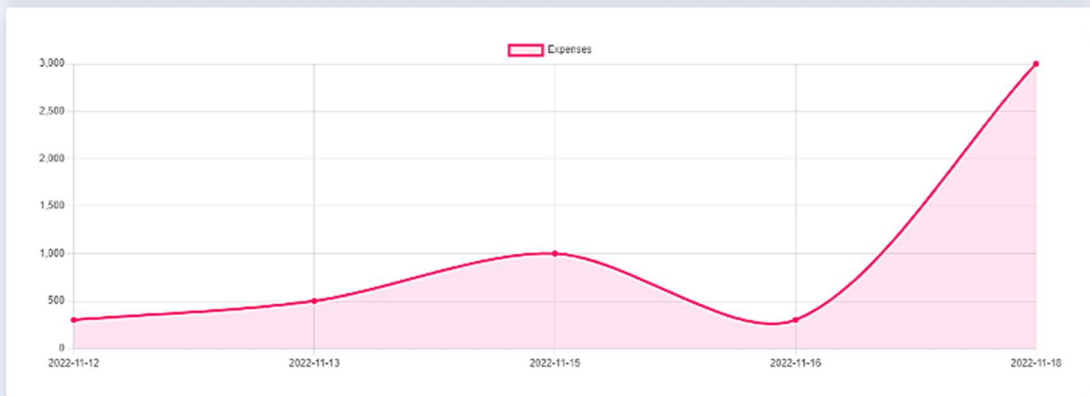
End Date:

18-11-2022



Expense

✓ INR 5100



Expense Details

Entertainment	IDR 600	Food	IDR 500
Fuel	IDR 1000	Other	IDR 0

The Expenses analysis page helps the person to know the expenses that made on different times. The Analysis graph helps to know the expenses made on times with respect to the amount that a person spend. This will helps a person to track the expenses and able to control the expenditure that a person spends on things on particular times.

j. Profile Page:

The screenshot shows the 'Profile' page of a 'Personal Expense Tracker' application. The page has a light blue background. At the top, there is a navigation bar with the application name 'Personal Expense Tracker' on the left and links for 'Home', 'Expense Analysis', 'Income Analysis', and 'Profile' on the right. The main content area is divided into two white panels. The left panel, titled 'Profile', contains form fields for 'Name' (Rajeshkumar), 'Email address' (19csl23@kpriet.ac.in), 'Telephone Number' (9786814641), and 'Budget' (11000). Each field has a blue 'Update' button at the bottom. The right panel, titled 'Change Password', has a 'Password' field and a blue 'Change' button. Below this panel is a pink 'Logout' button.

This Page is profile board for the user who create an account by adding his information which will be saved in the database and shown to the user as an profile dashboard module page where the user can see his/her Personal information which can be edited by clicking the update button the user can able to change the details that was given previously to new information updation. Also helps the user to update the password to secure his privacy by entering the current password and clicking in the change which direct to another page.

10. ADVANTAGES & DISADVANTAGES

Advantages:

- i. It is very easy to use and we can able to track the income and expense easily.
- ii. We can able to Access it anywhere if you have the network connection.
- iii. There is no need to afraid of loss of data.
- iv. We can able to track the between the dates.
- v. We can able to set the budget. If the budget is over, it will alert the user by sending the mail to the user.

Disadvantage:

- I. The Personal Expense Tracker works with the use of Internet without internet we cannot access the tracker which seems to be bit hardy.
- II. The Budget will be included once in the month we cannot make any changes in middle .
- III. The Analysis will be based on the One time budget

11. CONCLUSION

In conclusion, creating a personal budget and keeping track of all expenditures are critical components of personal finances. You should always have three months' worth of living expenses set up in a savings account, according to advice, in case of emergencies. Finally, every school should require a session on personal finance education for kids as early as possible. In order to teach their children about banking, credit cards, interest rates, and credit, parents must take the initiative. It was eye-opening to see how important it was to see my spending on my budget sheet actually. But now that I know where to cut the fat, I can boost the amount of money I have available for savings by modifying only a few things and eliminating others.

12. FUTURE SCOPE

- The personal expense tracker application is just used to track the expense and income. In future we like to improve the User Interface. The user interface (UI) can be improved in the future to accommodate a global audience by supporting multiple languages from different countries.
- In future we try to add the daily budget and weekly budget in our application to improve the user expense on daily basis or the weekly basis too.

13. APPENDIX

Source Code - <https://github.com/IBM-EPBL/IBM-Project-285-1658243423/tree/main/Final%20Deliverables>

GitHub - <https://github.com/IBM-EPBL/IBM-Project-285-1658243423>

Project Demo Link - https://drive.google.com/file/d/1zsLUPf-Nqd0L1wDiGyrO5LuR34X_N9Qa/view?usp=share_link