PROJECT

PERSONAL EXPENSE TRACKER APPLICATION

DONE BY

TEAM ID:

PNT2022TMID18464

TEAM MEMBERS:

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Project Report Format

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1. Introduction

- When it comes to tracking expenses, you can make your system as simple as collecting receipts and organizing them once a month.
- You might get a little more information from other expense tracking systems
 (listing them in a spreadsheet, using money management software or even
 choosing an online application), but all methods have one thing in common:
 you have to get in the habit of thinking about your expenses.
- It's very easy to misplace a receipt or forget about any cash you spent. You
 may even think that a cup of coffee or a trip to the vending machine isn't
 worth tracking although those little expenses can add up amazingly fast.
- There are all sorts of opportunities to throw a kick into your plan to track expenses. You have to get in the habit of doing so, to reduce those lapses, and make sure that the data you're basing financial decisions on is solid.
- This project will request the clients to add their expenses and in view of their costs, wallet status will be refreshed which will be noticeable to the client.

Motivation

- 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. While this
 problem can arise due to low salary, invariably it is due to poor money
 management skills
- Using a daily expense tracker can help you keep track of how much you spend every day and on what. At the end of the month, we will have a clear picture of where our money is going
- This project will request the clients to add their expenses and in view of their costs, wallet status will be refreshed which will be noticeable to the client

Project Workflow

- The user interacts with the application.
- Application will ask users to add their expenses and based on their expenses wallet balance will be updated which will be visible to the user.
- Also, users can get an analysis of their expenditure in graphical forms.
- They have an option to set a limit for the amount to be used for that particular month if the limit is exceeded the user will be notified with an email alert
- Setting up Application Environment

- Create Flask project Work with IBM Cloud CLI, Docker CLI, Sendgrid Implementation of Web Application
- Create UI to Interact with the application Connect IBM DB2 with Python Integration of Sendgrid Service with Python
- Deployment of Cloud Application
- Containerize the application Upload Image in IBM container directory Deploy on Kubernetes Cluster

Objective

- Help the people to track their expenses.
- Alert users when they exceed the limit of their budget.
- A personal finance app will not only help you with budgeting and accounting but also give you helpful insights about financial management

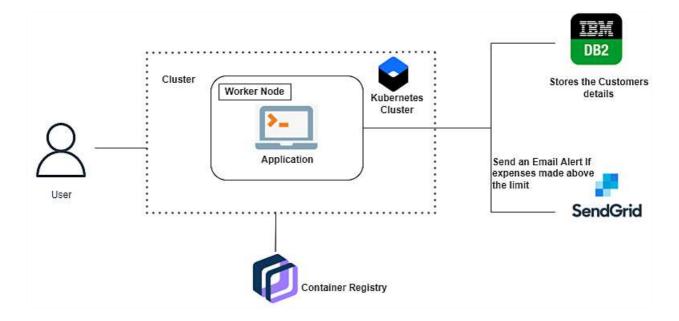
1.1Project Overview

Software Required:
Python, Flask , Docker
System Required:
8GB RAM,Intel Core i3,OS-Windows/Linux/MAC ,Laptop or Desktop

In simple words, personal finance entails all the financial decisions and activities that a Finance app makes your life easier by helping you to manage your finances efficiently. A personal finance app will not only help you with budgeting and accounting but also give you helpful insights about money management.

Personal finance applications will ask users to add their expenses and based on their expenses wallet balance will be updated which will be visible to the user. Also, users can get an analysis of their expenditure in graphical forms. They have an option to set a limit for the amount to be used for that particular month if the limit is exceeded the user will be notified with an email alert.

Technical Architecture:



1.2.Purpose

In this python Flask project, we will create an expense tracker that will take details of our expenses. While filling the signup form a person will also need to fill in the details about the income and the amount he/she wants to save. Some people earn on a daily basis, so their income can also be added on a regular basis. Details of expenses will be shown in the form of a pie chart on a weekly, monthly, and yearly basis. Installation of Flask is a must to start with the Personal Expense Tracker Application project. Personal finance management is an important part of people's lives. However, everyone does not have the knowledge or time to manage their finances in a proper manner. And, even if a person has time and knowledge, they do not bother with tracking their expenses as they find it tedious and time-consuming. Now, you don't have to worry about managing your expenses, as you can get access to an expense tracker that will help in the active management of your finances. 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. While this problem can arise due to low salary, invariably it is due to poor money management skills

2. Literature Survey

Paper 1 – ExpenseTracker

Publisher: International Journal for Research in Applied Science Engineering

Technology (IJRASET)

The Expense Tracker is a Web application that facilitates the users to keep track their

expenses.

This application records all the expenses of the users and the user can view them anytime. The application provides monthly and year-wise expenditures which will let the user

know where he is spending the most. It also provides graphical visualizations which helps

the user to perform detailed analysis on the expenditure.

Pros

Using paper is not easy to manage the expenses. This application eliminates the

usage of paper and excel sheets to keep track the user's expenses.

• It saves time and requires less human effort.

• The user just needs to enter the income and the expenses, everything will be taken

care by the application.

Cons

• There is not limit on the amount that can be used by the user

• The application does not send any notification regarding the usage of the amount by

the user.

Paper 2 - eExpense: A SmartApproach to TrackEveryday

Expense

Publisher: IEEE

• eExpense is a mobile application that runs on the Android smartphones. Using this

application, users can save their expense by scanning the bills and the receipt copies.

Optical Character Recognition (OCR) is used to extract the information from the bills

or receipts. It is also capable of tracking savings from user's saving accounts by

reading the SMS's automatically from the message application of the android device.

- The application consistsof four sections such as debit, credit, balanceand history. Debit section records the expenses of the user. The input can be given either manually by the user or the system will take automatically by scanning. When users open the credit interface, the system reads all the messages from the user's messaging inbox. The input can be given manually or it can be taken by the system automatically.
- This application allows users to set the budget for a month or year. When the limit
 exceeds,it sends a notification to the user. Balance section shows the monthly and
 yearly balance. History sectioncontains calendar. By selecting a particular date,it
 shows the expenses on that day.

Pros

- It is an automated system to store the expense of the user and the expenses are stored in the database category wise.
- This application extracts the textual information from the receiptsand saves the amount and description for further processing.
- It also monitors user's income by tracking the received SMS's from the user's saving accounts. By calculating income and expense it produces the user's balance in monthly and yearly basis.
- It eliminates the usage of paper and excel sheetsto keep track the user's expenses. It saves time and requires less human effort.

Cons

- This application is useful only for Android users.
- It does not providegraphical visualizations which could be helpful for detailed analysis
 of the expenditure.

Paper 3 - Expense Tracker

Publisher: International Research Journal of Modernization in Engineering

Technology and Science (IRJMETS)

The Expense Tracker is a mobile application that allows the users to download in

their mobile phones and can be used to track and update their daily costs. So that they

can keep track of their earnings. The user can know easilyon how much the amount

they have spent on the various things for household, clothing and house rentals and we

can easily depict the cost to the user using pie charts. Based on this we can keep track

of daily expenses that we spent in a single day. Moreover, this is an automated solution

for tracking the expenses.

Pros

• The application does not require a large number of users and only requires them

to enter the expense amount, date, category, merchant, and otheroptional

parameters

It helps the androidusers in any situation by keeping track of their expenses every

day.

App also sends customized tips in the form of push notifications which helps

users to manageexpenses.

Cons

• This application is made only for android users.

• There is no limit for the amount that is been used by the user.

Paper 4 - Daily ExpenseTracker

Publisher: International Journal of Researchin Engineering and Science (IJRES)

Daily Expense Trackeris a web application that allows you to track the daily expense of the

user and help them to keep track of their expenses daily ,monthly ,weekly and yearly basis. It will also create a digital records for the user's income and various expenses spent by the user is calculated.

It also gets the input from the user as how much income earned and the date of the income earned and further creates a transaction entry and sums up all the total income. Further we can give voice commands and it is responsive. It will be very helpful for the users to manage their needs and they can spend in a better way by keeping track of the application daily basis.

Daily Expense Tracker application can be accessed from any browsers like Google chrome, Mozilla Firefox and it allows for portable work environment. We can also digitally maintain the records with visual representation and also graphically view them using bar graphs and pie charts on how much amount is being spent and can also eliminate the physical entries by using voice commands.

Daily expense Tracker is an AI powered engine providing voice recognition which is very helpful for the users to do the work in easiest way. The application is divided into three major components that is income, expense and create transaction section. Create transaction component allows user to choose from two categories whether it is a Expense or an Income and also choose from list of types of income or expense enter the amount and date and create entry. After the creation of transaction pie charts are created in the income or expense section based on type of transaction. All of these features can also be updated or deleted using users voice commands.

Pros

• It is an Al powered engine so that is easy to store all the expenses of the user in a database.

- It eliminates the user by typingmanually instead it is very helpful using voice recognition.
- It saves time and user friendlyand also requiresless human effort.
- It is a platform independent web application. Users can use this application either
 in their mobile phones or desktops. Both Income and Expenses pie chart will be
 created when we add any item and distributed according to the user need.
- If any user doesn't know how to add or delete then we can simply give voice commands.

Cons

- There is no option to scan the barcode on the price tag which may decreasing the efforts of entering the data.
- 2. There is no notification system when the user expenses exceeds the incometo warn the situation.

2.2 References

- https://ieeexplore.ieee.org/document/8628070
- https://www.ijraset.com/fileserve.php?FID=33797
- https://www.ijres.org/papers/Volume-<u>9/Issue-12/Ser-4/L09127073.pdf</u>
- https://www.irjmets.com/uploadedfiles/paper/issue_4_april_
 2022/21604/fin a l/fin_irjmets1651132467.pdf

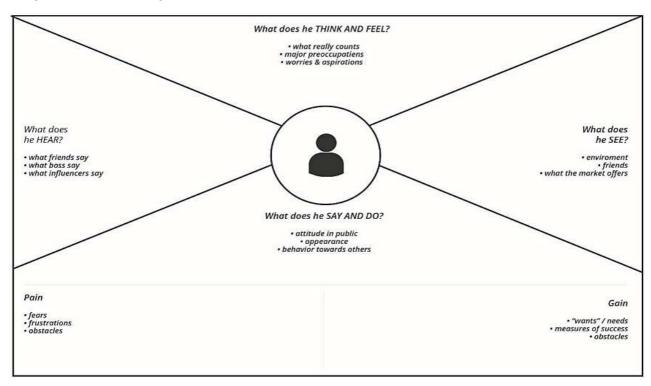
2.3 Problem Statement Definition

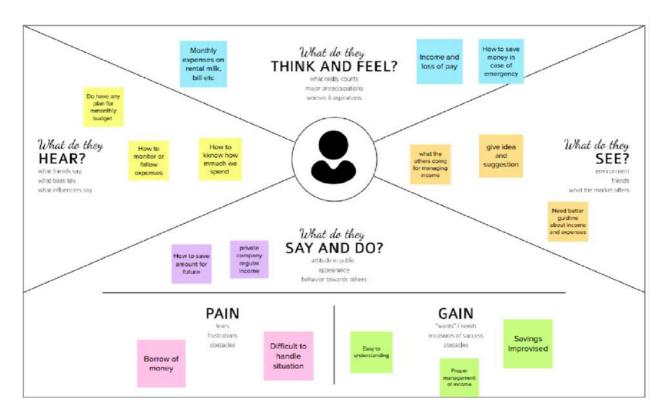
The Expense Tracker is a application that allows the user to track and update their daily costs. So that they can keep track of their earnings. The user can know easily on how much the amount they have spent on the various things for household, clothing and house rentals and we can easily depict the cost to the user using pie charts. Based on this we can keep track of daily expenses that we spent in a single day. Moreover, this is an automated solution for tracking the expenses.

3. 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 behaviours 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.

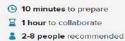


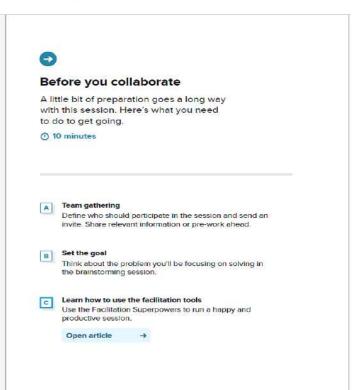




Brainstorm & idea prioritization

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.











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.



PROBLEM

How might we [your problem statement]?





Brainstorm

Write down any ideas that come to mind that address your problem statement.





Boost your Project your date insign

Automete the process	Becet your productivity	Become aware of poor pending habits
Prioritize your spending	Tale central of your business	Accurate of money inflow and outflow

Ragul

Meli	Calendar	Timing and
notified	notification	meneging
Categories	Reduce	Control
your	tedious	unnecessary
expenses	process	proding
Can record expenses daily	To track Money as they Spend	You can review your expenses weekly

PraveenKumar

Well prepared for tax session	Elminate Human Error	Avoid Debt
Track a financial progress	Control your Budget	Reveal your spending lature
Reduce impulse pending	Offer precise analytics	Frevent data loss

Nishanth

Put you in central of your finences	Avoid budget overspending	Track your expense regularly
Vaux representation of expenses	Increases efficiency	set spending limits
Helps user to rategative their spending	Allocate money to different to periorities	Help you to stick your budget

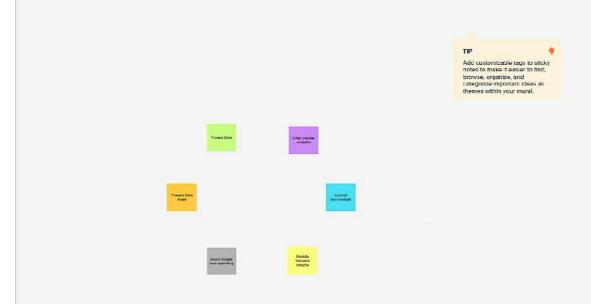


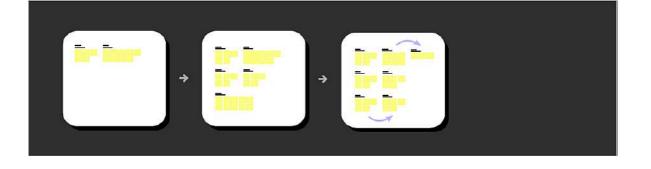


Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

① 20 minutes





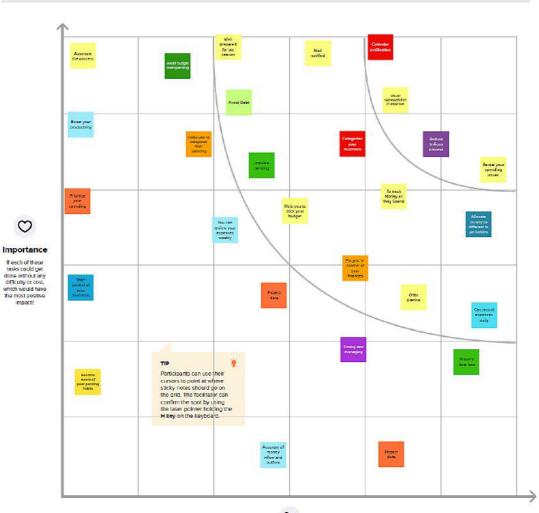


Prioritize

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

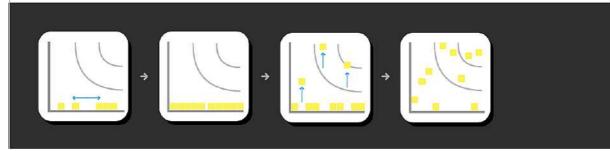
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Feasibility

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 to be solved)	This project is based on an expense and income tracking system. Its aim is to create an easy, faster and tracking system between the expense and the income. This way experience tracked help people to track income expense day to day and making life tension free.
2.	Idea / Solution description	Personal Expense Tracker (PET) is a daily Expense Management System. This software can be really used by end user who have Android running devices with them.
3.	Novelty / Uniqueness	We found various similar product that have already been developed in the market. Unlike all those products Personal Expense Tracker provides security and graphical results.
4.	Social Impact / Customer Satisfaction	A good financial plan can spot positive and negative trends where they may have become lost in a sea of numbers. The application will display a pie chart-style alert message if your spending exceeds people to generate revenue
5.	Business Model (Revenue Model)	These apps can help you keep track of receipts, organize all of your costs into catagories and even integrate with popular accounting software
6.	Scalability of the Solution	IBM cloud will automatically allocate the storage for the uses.

3.4 Problem Solution fit

1.CUSTOMERSEGMENT(S) Whosterquaretationner? -People who felt ease for tracking expense	CS	G.CUSTOMERCONSTRAINT Whatecontraintguseventyous endouser chomataking actioned limit their hoisest of both under the contraint of the con	ec.	S.AVAILABLESOLUTIONS Which solutions are a likely to the continuous reaching the ethaproblem came edogettig job close (Whather ethap unichambeput Whatpros & consideration of the penandrop ennant kenative bodigitals acetalising -E asy to use mobile app that minimize data entry time -Solid customization	AS
2.JOBS-TO-BE-DONE/PROBLEMS Which; observed-ecknot/orpoblems) -Stick to their monthly expense -Know about save and spend	J&P	9.PROBLEMROOTCAUSE What is the real reason that this problem enists? -Customer need to do it to avoid unexpected expense and wastage of money	RC	7.BEHAVIOUR Whatdoscyware untones obtated the earth-sproblem and get the job done? utage and beaufite: -Save the time of customer -Create balanced budget	INE.
3.TRIGGERS What the generator to accomplish the substantial description of the substantial d	TR	10. YOURSOLUTION If you are working on a near-time for similar section of the state of the stat		8. CHANNEL SofBEHAVIOUR 8.1 ONLINE Whotkindofs extonadocustomeratakeonline?Extractonline channelafrom #7 -Use cloud based software -Use personal tracking app 8.2 OFFLINE	СН
4.EMOTIONS:BEFORE/AFTER Howdocustomersfeelwhentheyfaceaproblemorajobandaflerwards? i.e.lost/insecure/confident/incontrol/useffinyoutcommunicationstrategy@design -People no need to worry about misplaced receipts and paper traits	ЕМ	Enable detailed drill-down reports across a broad range of matrix for real time analysis		Whatkind of actions docustomers taken filling ZExtract of filling channels from \$7 and ustherm for customer development. -Marketing actions like traditional marketing that do not involves.	ā

4 Requirement Analysis

4.1 Functional Requirements:

Following are the functional requirements of the proposed solution.

FR	Functional	Sub Requirement (Story /
No.	Requirement	Sub-Task)
	(Epic)	
FR-1	User Registration	Registration through Signup
FR-2	Login	Enter User name and
		Password
FR-3	Expense	Add Expense
FR-4	User Dashboard	Expense Data Records
FR-5	User	Send Alert If Expense cross
	Notifications	Limit
FR-6	Report	Graphical Representation of
	generation	report

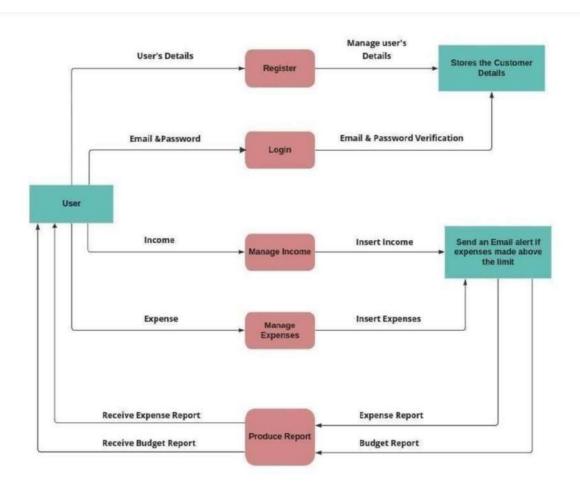
4.2 Non-functional Requirements:

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

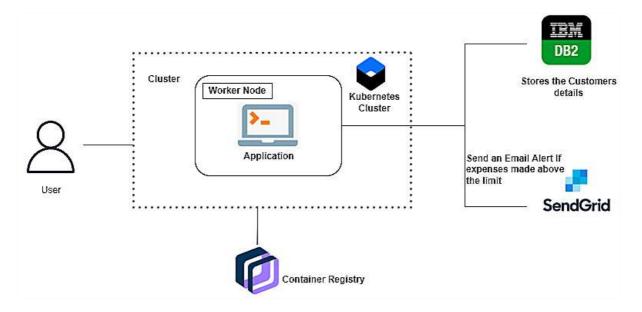
FR	Non-Functional	Description
No.	Requirement	
NFR- 1	Usability	By using thisapplication, the usercan keep trackof their expenses and can ensurethat user's moneyis used wisely.
NFR- 2	Security	Maintain user personal details in a encrypted manner by using datasecurity
NED	D - 1: - 1: :1::	algorithms.
NFR-	Reliability	It will maintain a proper tracking of day-to-day
		expenses in an efficient manner.
NFR- 4	Performance	By enter our incoming and departing cash,and the software can help youkeep and monitor it with at-most quality and security with high performance.
NFR-	Availability	Using charts and graphs may help
5	_	you monitor your
		budgeting and assets.
NFR- 6	Scalability	Rely on your budgeting app to track,streamline, and automate all the recurrent expenses and remind you on a timelybasis.

5. Project Design

5.1 Data Flow Diagram



5.2 Technical Architecture



Components & Technologies:

S.No.	Component	Description	Technology
1.	User Interface	The user can Interact with the application with use of Chatbot	HTML, CSS, JavaScript etc.
2.	Application Logic-1	The application contains the sign in/sign up where the user will login into the main dashboard into the main dashboard	Python
3.	Application Logic-2	Dashboard contains the fields like Add income, Add Expenses, SaveMoney	IBM Watson STT service
4.	Application Logic-3	The user will get the expense report in the graphform and also get alerts if the expense limit exceeds	IBM Watson Assistant,SendGrid
5.	Database	The Income and Expense dataare stored in the IBM DB database	IBM DB2
6.	Cloud Database	With use of Database Service on Cloud, the User dataare stored in a well secured Manner	IBM DB2, IBMCloudant etc.
7.	File Storage	IBM Block Storage used to storethe Financial dataof the user	IBM Block Storageor Other Storage Service or Local Filesystem

Application Characteristics:

S.No.	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask Framework in Python is usedto implement thisApplication	Python-Flask
2.	Security Implementations	This Application Provides high security to the userFinancial data. It can be done by using the Container Registry in IBM cloud	
3.	Scalable Architecture	Expense Tracker is a life time access supplication. It's demand will increase when the user'sincome are high	Container Registry, Kubernetes Cluster
4.	Availability	This application will be available to the user at any part of time	Container Registry, Kubernetes Cluster
5.	Performance	The performance will be high because there will be no network traffics in the application	Kubernetes Cluster

5.3 User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Relea se
Customer	Registration	USN-1	As a user, I can register for the application byentering my email, password, and confirming my password.	I can access my account/dashboard	High	Sprint1
	Login	USN-2	As a user, I can login to the application by entering email & password	I can access the application	High	sprint 1
	Dashboard	USN-3	As a user I can enter my income and expenditure details.	I can view my daily expenses	High	sprint 2
Customer Care Executive		USN-4	As a customer care executive, I can solve the log in issues and other issuesof the application.	I can provide support or solution at any time24*7	Medium	sprint 3
Administrator	Application	USN-5	As an administrator I can upgrade or update the application.	I can fix the bug which arises for the customers and users of the application	Medium	Sprint 4

6. PROJECT PLANNING & SCHEDULING

6.1 SPRINT PLANNING & ESTIMATION

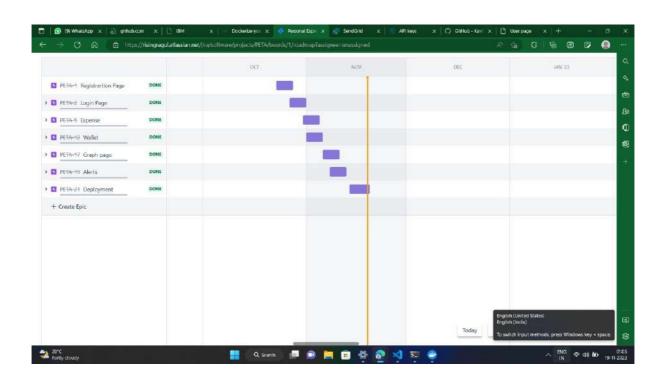
Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint- 1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	3	High	Prem S R
Sprint- 1		USN-2	As a user,I will receive confirmation email oncel have registered for the application	3	High	Praveenkumar p
Sprint- 1	Login	USN-3	As a user, I can log into theapplication by entering email & password	5	High	Ragul C
	Dashboard & Logout	USN-4	As a user,once I loggedin I can access all the features of theweb app and Logoutonce I completed all the work.	5	High	Ragul C
Sprint- 1		USN-5	Once loggedIn, Keep me logged for few hoursto avoid repeated login if the page is refreshed	4	Medium	

Sprint- 2	Expense	USN-6	Add total income for the monthand Allow for edit option	6	High	Ragul C
Sprint- 2		USN-7	Split the totalincome based on usage likeentertainment, food, shopping etc.	2	Low	Nishanth R
Sprint- 2		USN-8	Add the day to day expense.	6	High	Praveen kumar P
Sprint- 2		USN-9	Display the useradded expense	6	High	Praveen kumar P
Sprint- 3		USN-10	Filter theexpense data basedon criteria	6	Medium	Nishanth R
Sprint- 3	Charts	USN-11	As a user I can display it in graphs	4	Low	Prem S R
Sprint- 3	Alerts	USN-12	As a userl create customalert for the balance	10	High	Prem S R
Sprint- 4	Deployment	USN-13	As a user I shouldable to accessit anywhere in the net	20	High	Nishanth R

6.2 Sprint Delivery Schedule:

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

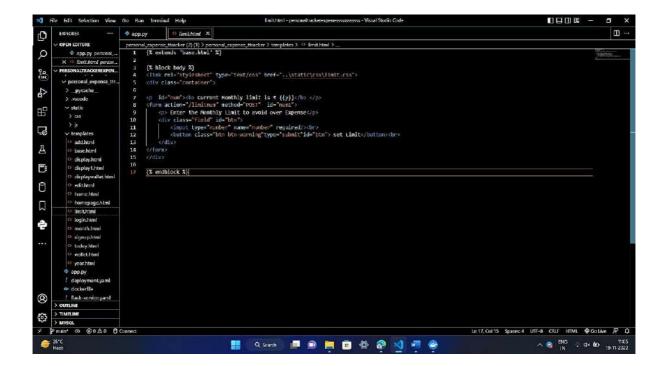
6.3 Reports from JIRA



7.CODING & SOLUTIONING:

7.1 FEATURE 1:

• In this project We Added a feature to set limit for the expenses done by the user to avoid over expenses by giving an alert mail to the user using sendgrid mail.We alert user to limit their expenses within the fixed amount

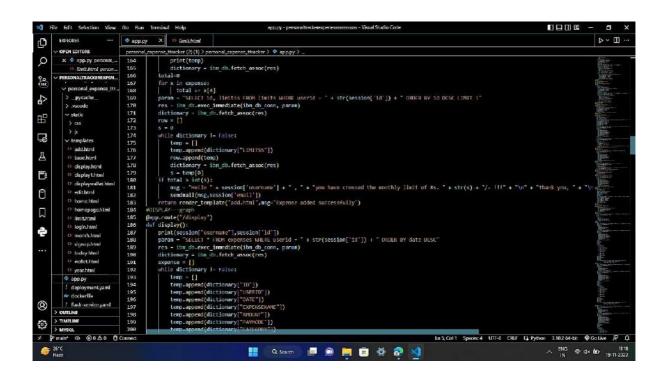


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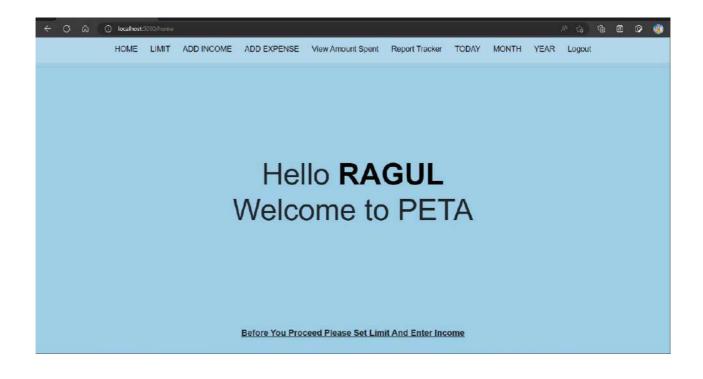
7.2 FEATURE 2:

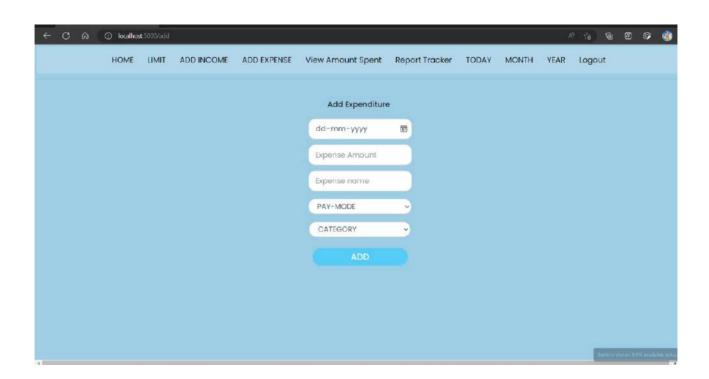
In this we add a wallet where user add their income and see it how much money they spend on their income and they can view their expense and income by this feature.

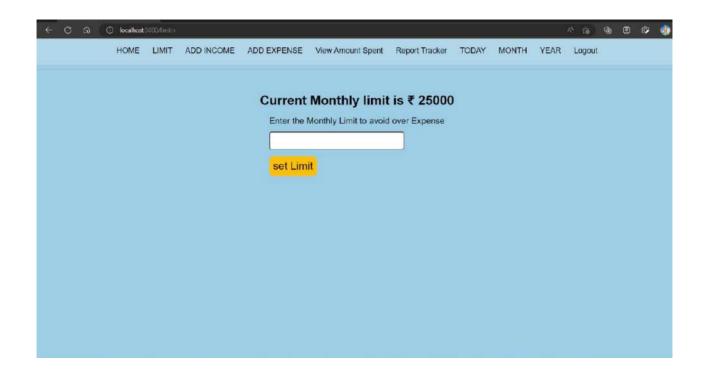
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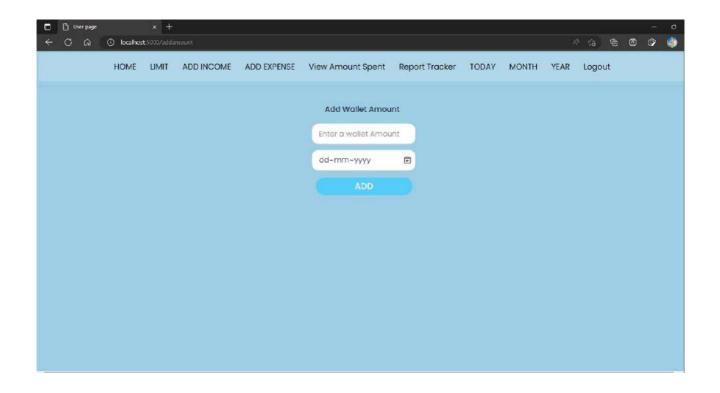


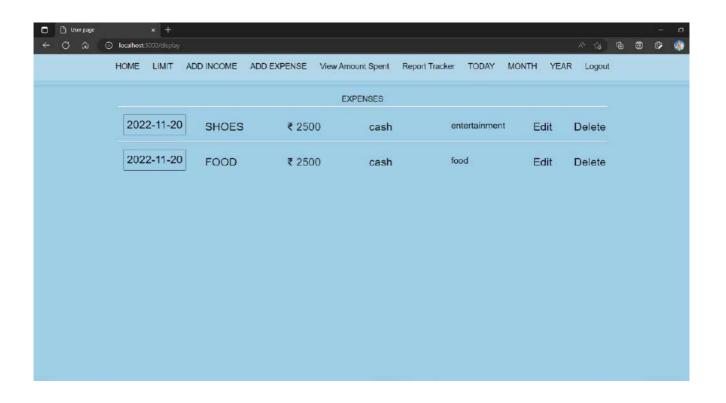




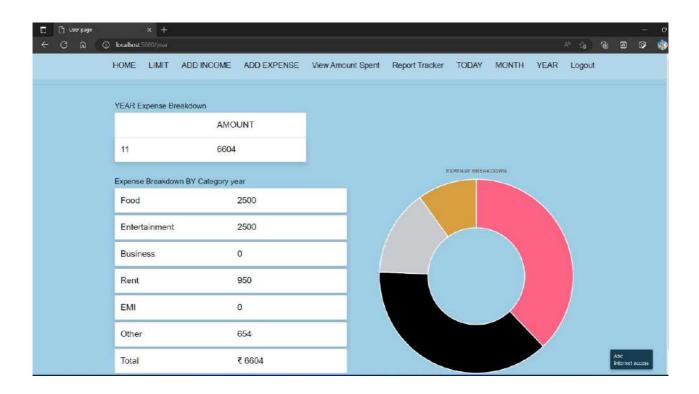


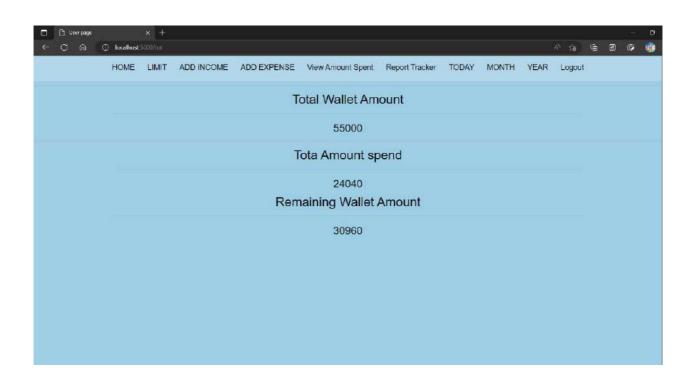






< 0 A 0	localhost 5000/displa	у					A to the	a
1	HOME LIMIT	ADD INCOME ADD	EXPENSE View A	mount Spent Report Tr	acker TODAY MO	ONTH YEA	AR Logout	
				EXPENSES				
	2022-11-2	1 food	₹ 2500	debitcard	entertainment	Edit	Delete	
	2022-11-2	0 SHOES	₹ 2500	cash	entertainment	Edit	Delete	
	2022-11-2	0 FOOD	₹ 2500	cash	food	Edit	Delete	
	2022-11-2	0 SHOES	₹ 2960	cash	entertainment	Edit	Delete	
	2022-11-2	0 food	₹ 3500	debitcard	food	Edit	Delete	
	2022-11-1	9 sports shoe	₹ 2500	debitcard	other	Edit	Delete	
	2022-11-0	7 food	₹ 2540	cash	food	Edit	Delete	
	2022-10-0	5 food	₹ 2500	debitcard	food	Edit	Delete	





8. Testing:

8.1 Test Cases

Test cases are a set of actions performed on a system to determine if it satisfies software requirements and functions correctly as it claimed to perform.

Test Case ID	Purpose	TestCases	Result	
TC1	Authentication	password with length less than 4 characters	password cannot be less than 4 characters	
TC2 Authentication		User name with length less than 2 characters	User name cannot be less than 2 characters	
TC3 Authentication		Valid user name with minimum 2 characters	User name accepter	
TC4	Authentication	User name is blank	User name cannot be less than 2 characters	
TC5 Authentication		Password field blank	User password cannot be empty	
TC6	Authentication Minimum characters password		Password accepted	
TC7	Authentication	Password and Confirm password did not match	Please enter same password	
TC8	Authentication	Confirm Password field bland	Please enter same password	

8.2 User Acceptance Testing

Before deploying the software application to a production environment the end user or client performs a type of testing known as user acceptance testing, or UAT to ensure whether the software functionalities serve the purpose of development.

Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal
By Design	5	4	2	0	11
Duplicate	0	0	0	0	0
External	2	3	0	2	4
Fixed	1	2	2	0	5
Not Reproduced	0	0	0	0	0
Skipped	0	0	0	0	0
Won't Fix	0	0	0	0	0
Totals	6	9	4	2	21

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

9.RESULTS

9.1Performance Metrics

Tracking income and expenses: Monitoring the income and tracking all expenditures.

- Transaction Receipts: Capture and organize your payment receipts to keep track of your expenditure
- Reports: The expense tracking app generates and sends reports to give a detailed insight about profits, losses, budgets, income, balance sheets, etc.
- Access control: Increase your productivity by providing access control to particular users through custom permissions.
- Track Projects: Determine project profitability by tracking labor costs, payroll, expenses, etc., of your ongoing project.
- In-depth insights and analytics: Provides in-built tools to generate reports with easy-tounderstand visuals and graphics to gain insights about the performance of your business.

10.Advantages and Disadvantages

- You have no control over your money If you don't check your spending and create a
 budget, you will have no control whatsoever on your money. Instead, money will control
 you, and you will either have perpetual lack of funds or you will end up steeped in debt.
 A money manager app helps you decide between short-term and long-term spending.
- You have no financial goals If you are spending money frivolously, you will not have
 money to set financial goals. However, when you have a daily expense manager, you
 will be able to work with limited resources and use your money in a wise manner so that
 you can create financial goals and ensure you meet them.
- You are unaware what is happening with your money If you are clueless about how
 much is your inflow and how much you are spending, you will not know at the end of
 the month what happened to your money. An expense tracker helps you figure out what
 is happening to your money, and whether you can afford something you want.
- You spend and save in a haphazardmanner If you don't have great financial management skills, you will not know how to categorize your expenses. However, tracking your expenses and budgeting them will help you become aware of how much you have to allocate to each expense category, and if you are short, you will be able to make adjustments with ease.
- You have no clue about making your money work for you, In this day and age, when expenses are going through the roof, it has become crucial that you learn to make your money work for you so that you can create nest egg for the future.
- You don't have funds for emergencies Remember, emergencies come when you least expect. Hence, if you don't have money stashed away for a rainy day, you will end up borrowing from family and friends. This way you could get into debt that will be difficult to pay back due toyour poor money management skills

Disadvantages:

 Your information is less secure, and probably being used and sold. If the service is free, then the productis you. Mint.com, like other financial apps, is a free service. They have to pay their bills somehow, so regardless of what their privacy policy may or may not say, just assume that your spending historyand trends are going to be recorded and

- analyzed, by someone, somewhere.
- Now, you shouldn't have to worry about credit card fraud or identity theft, these
 companies are large enough and secure enough that you'll never have to worry about
 something like that. Just recognize that your information, most likely anonymous, will
 be used and potentially even sold.
- Personally, I have no problem with that, but if you do, then make sure you avoid these types of services. Automating everything to do with your finances can make you financially lazy. If your billsare paid automatically and your financesare track automatically, then what is there left for you to do? Not a lot, to be honest. So you might stop caring about what you're spending and where your money is going. Eventually you may look at your Mint data and realize that you've blown your budget over the last two months, but by then it is too late. So if you do choose to use this program, ensure that you are also being diligent in checking in on your finances. Set up a weekly or biweekly check for yourself to go through your finances and hit on all the important points.

11.CONCLUSION

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

12.FUTURE SCOPE

The further enhancement that are planned for developing the application to be user friendly and further features like login with gmail or social media accounts using facebook or twitter and also using SSO login so that it is helpfulfor users to get into platform easily.

13.APPENDIX

GitHubLink:

https://github.com/IBM-EPBL/IBM-Project-24516-1659944127

ProjectDemolink:

https://drive.google.com/file/d/1MVCslpzAgPQOQ-

NCml6n3Ogr83tf6fqb/view?usp=drivesdk