

PERSONAL EXPENSE TRACKER APPLICATION

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1.INTRODUCTION

1.1 Project Overview

Personal Expense Tracker is a daily expense management system which is specially designed for non- salaried and salaried personnel for keeping track of their daily expenditure with easy and effective way through computerized system which tends to eliminate manual paper works. It will also manage records in systematic way and user can access the stored data conveniently. We have tried to design the project in such way that user may not have any difficulty in using this application without much effort. This software can be really used by end user who have Android running devices with them. The language that we use to develop this system is and MYSQL for database.

1.2 Purpose

The idea of developing this project for user convenience. Because whenever they make expenses immediately, they add in the application. Some of the concerns maintaining a personal expense is a BIG problem, in daily expenses many times we don't know where the money goes. Some of the conventional methods used to tackle this problem in normal circumstances are like making use of a sticky notes by common users, Proficient people deals with this kind of problems by using spreadsheets to record expense and using a ledger to maintains the largeamounts data by especially by expert people. We believe a handy design and a handy mobile application which handles these troubles. Such that app is capable of recording the expenditure and giving broad view with easy to use the user interface and this application is intelligent enough to shows the history of expenses.

2. LITERATURE SURVEY

2.1 Existing Problem

A. GIRISH BEKAROO AND SAMEER SUNFALOO “INTELLIGENT ONLINE BUDGET”PROCEEDINGS OF THE 2007 COMPUTER SCIENCE AND IT EDUCATION CONFERENCE INTELLIGENT ONLINE BUDGET TRACKER GIRISH BEKAROO AND SAMEER SUNFALOO :

The development of this application has been conducted in a stepwise manner using the welldefined methodology, RUP, customized according to the requirements of the systems. Most of the goals set at the start of the development have been met. Security problems like web security have also been treated in design and development system, thus increasing the reliability of the system. Quality Management issues have also been handled satisfactorily.

B. S.CHANDINI, T.POojitha, D.RANJITH, V.J.MOHAMMED AKRAM, M.S.VANI, V.RAJYALAKSHMI “ONLINE INCOME AND EXPENSE TRACKER” -MARCH 2019:

The user can make use of this application in his/her daily life. After being used it can be a part of daily life to update and view daily expense and family expenses. This helps to track expenses and manage it for the user as they are busy in their daily routine, they are not able to keep track of their incomes and expenses.

c. RAJAPRABHA.M“FAMILYEXPENSE MANAGER APPLICATION”-2017:

The user can make use of this application in his/her daily life. After being used it can be a part of daily life to update and view daily expense and family expenses. This helps to track expenses and manage it for the user as they are busy in their daily routine, they are not able to keep track of their incomes and expenses.

D. MUSKAAN SHARMA ,AYUSH BANASAL,DR. RAJU RANJAN, SHIVAM SETHI “ A NOVEL EXPENSE TRACKER USING SATISTICAL ANALYSIS”-JUNE 2021:

Expense tracker is used to maintain and manage data of daily expenditure in a more precise way it can give profound knowledge of their expenses. User can choose the kind of spending they wanted to do, even the amount etc. and all these details is going to be saved by the internal database storage. In this system user can actually have the knowledge about their expenditure on their daily basis, weekly as well as monthly basis. This systematic way of sorting your information related to your expenses would help you to keep a track of Your expenditure and further you do not have to do the manual stuff. Some statistical analysis have to be done to be able to give users correct information on their expenses and help them spend better. This helps the society to prevent the issues like bankruptcy and save time from manual calculations. User can

provide his/her income to calculate the total expense per day and result will be sorted for each individual user. People when usually go for trips with friends, can use this tracker to maintain their expense.

2.2 References

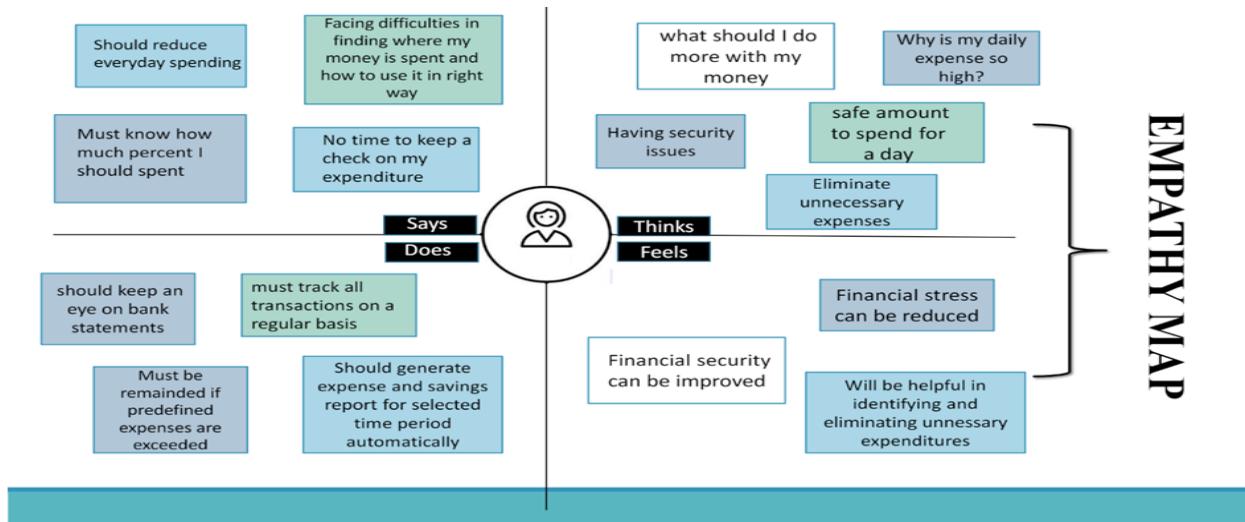
1. https://ijirt.org/master/publishedpaper/IJIRT151474_PAPER.pdf
2. <https://iopscience.iop.org/article/10.1088/1757-899X/263/4/042050>
3. <https://www.irjet.net/archives/V6/i3/IRJET-V6I31110.pdf>

2.3 Problem Statement Definition

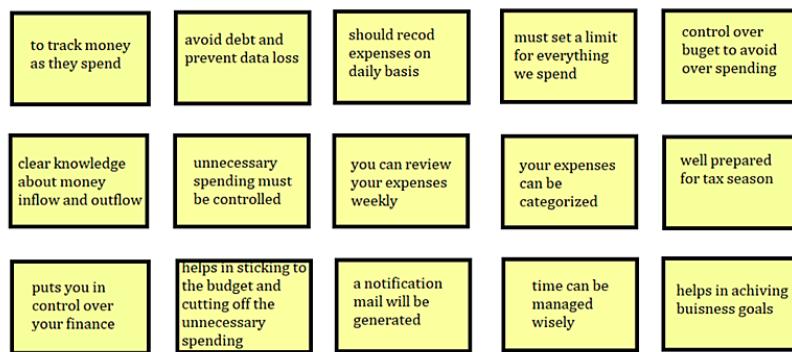


3. IDEATION & PROPOSED SOLUTION

3.1 Empathy Map Canvas



3.2 Ideation & Brainstorming



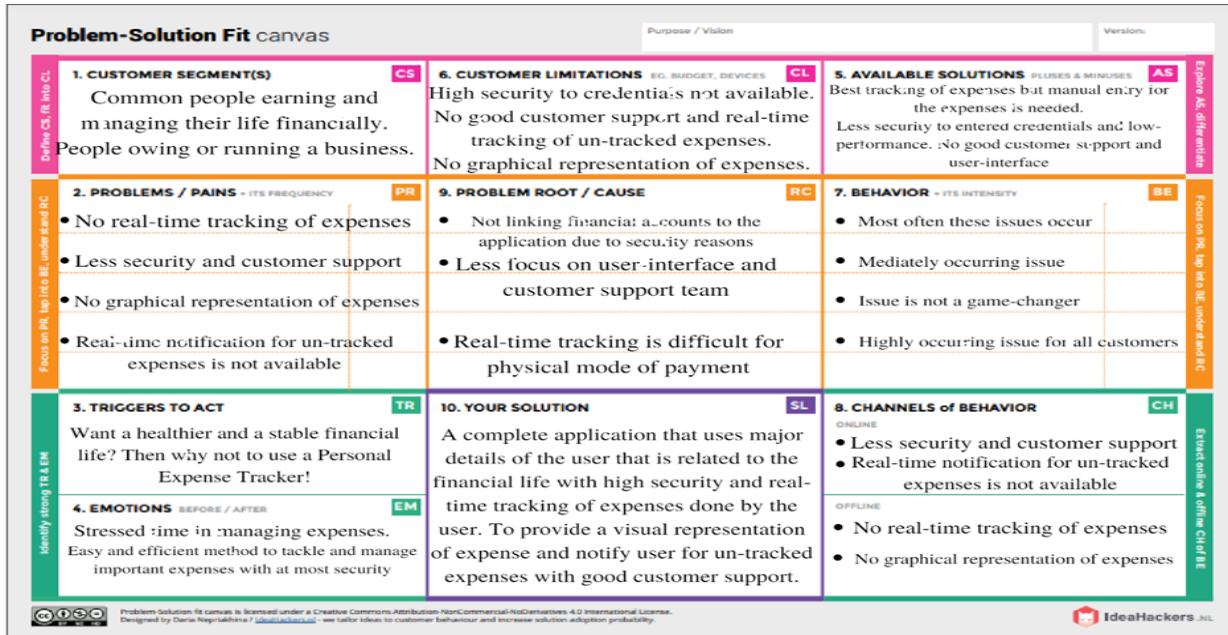
3.3 Proposed Solution

S.No	Parameter	Description
1.	Problem Statement	<p>Many Organizations have their own system to record their income and expenses. It is good for a person to record daily expenses and tracking the expenses throughout the month is essential. Thus, personal expense tracker application has made tracking and managing expenses a breeze.</p>
2.	Novelty	<p>This app effectively works in providing financial management and helps in maintaining healthy and happier financial life fulfilling all needs and requirements as the user's comfort. This app provides a higher range of accuracy regarding real-time effectiveness and security.</p>
3.	Feasibility of Idea	<p>User can easily maintain their untracked expenses and the app helps the user to record their expenditure. This app can achieve economic feasibility and security feasibility with at most care and support to the user.</p>
4.	Business Model	<p>The application can be provided based on user required feature and the cost depends on the usage.</p>

5.	Social Impact	This application can create awareness among common people about finance and stuffs. This application also helps user to be financially responsible.
6.	Scalability of the Solution	This application can handle large number of users and data with high performance and security at any given point of time.

3.4 Problem Solution fit

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



4. REQUIREMENT ANALYSIS

4.1 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
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Financial Accounts	Account Details Verification of Details
FR-4	User Dashboard	Expense Data Data Records
FR-5	User Notifications	System Access Real time Alerting
FR-6	Security of User Data	Secured Database Data Security Algorithms

4.2 Non-Functional requirements

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

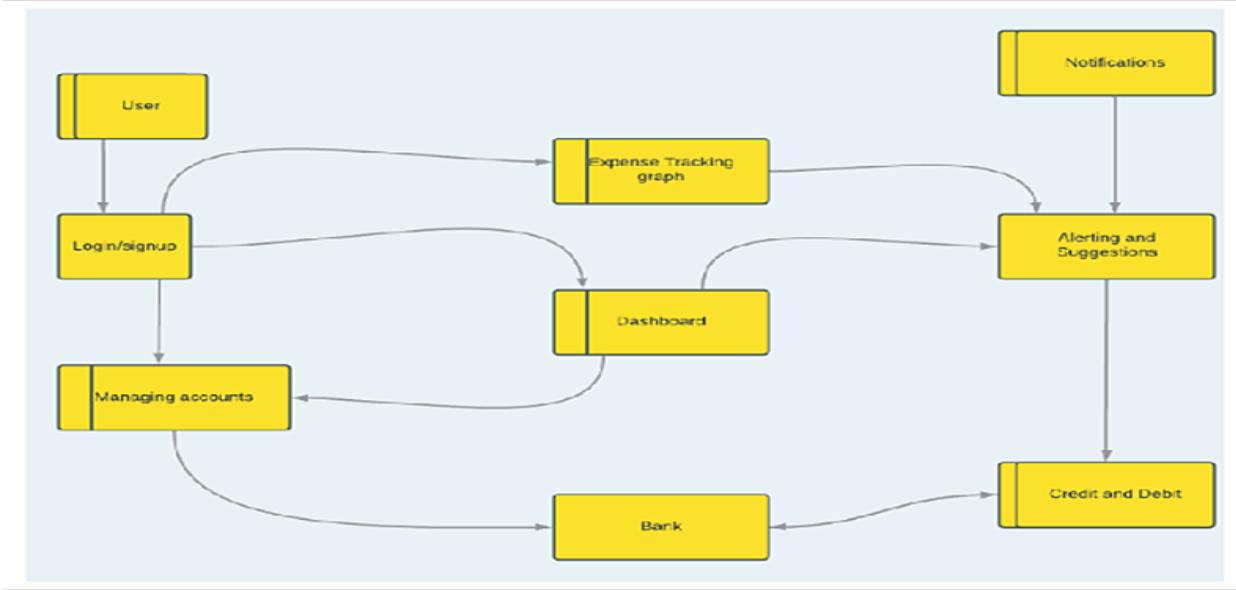
FR.No	Non-Functional Requirement	Description
NFR-1	Usability	By using this application, the user can keep track of their expenses and can ensure that user's money is used wisely.
NFR-2	Security	Maintain user personal details in a encrypted manner by using data security algorithms.
NFR-3	Reliability	It will maintain a proper tracking of day-to-day expenses in an efficient manner.

NFR-4	Performance	By entering our incoming and departing cash, and the software can help you keep and monitor it with at most quality and security with high performance.
NFR-5	Availability	Using charts and graphs may help 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 timely basis.

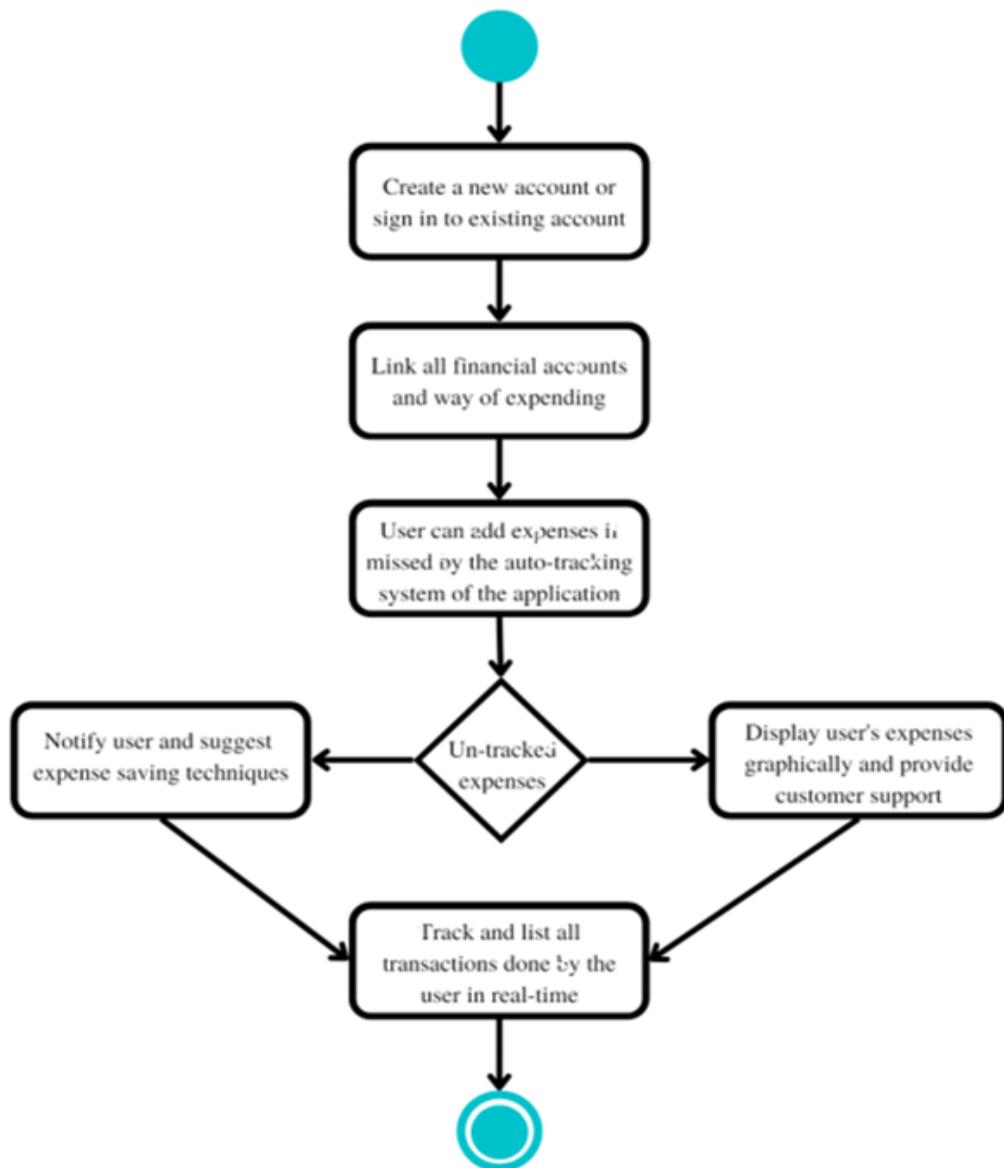
5. PROJECT DESIGN

5.1 Data Flow Diagrams

A Data flow diagram(DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can 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 Solution & Technical Architecture



5.3 User Stories

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

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
		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	Sprint-1
		USN-3	As a user, I can register for the application through Social media accounts	I can register & access the dashboard with Social media Login	Low	Sprint-2
	Login	USN-4	As a user, I can log into the application by entering email & password	I can access my account / dashboard	High	Sprint-1
	Dashboard	USN-5	Once logged in , based on user's expenses and data records , graphical representation is achieved	I can view my updated dashboard	High	Sprint-2
	Financial account	USN-6	As a user, I can add and remove any financial accounts	I can manage financial accounts	High	Sprint-2
	Notifications	USN-7	As a user, I can receive alerting notifications on untracked expenses	Untracked expenses are alerted	High	Sprint-3
		USN-8	As a user, I can receive suggesting notifications for saving and earning money	Suggestions are notified	Low	Sprint-3
	Security	USN-9	As a user, I am assured for linking my financial accounts securely	Security is assured	High	Sprint-4
Customer Care Executive	Customer care	USN-10	As a user, I can access the customer care for any queries and issues regarding the applications	24/7 customer care support is provided	Low	Sprint-4

6.PROJECT PLANNING AND SCHEDULING:

6.1 SPRINT PLANNING AND ESTIMATION:

Sprint	Functional Requirement(Epic)	User Story Number	User Story/Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As user ,I can register for the application by entering my email, password ,and confirming my password.	2	High	athi guru
Sprint-1		USN-2	As a user ,I will receive confirmation email once I have registered for the application	1	Medium	vijay krishnan
Sprint-2	Login	USN-3	As a user ,I can register for the application through Facebook	2	Medium	niketha

Sprint-1	Dashboard	USN-4	As a user, I can register for the application through Gmail	2	High	sheethal
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6.2 SPRINT DELIVERY SCHEDULE:

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed(as on Planned End Date)	Sprint Release Date(Actual)
Sprint-1	20	6 Days	24Oct2022	29Oct2022	20	29Oct2022
Sprint-2	20	6 Days	31Oct2022	05Nov2022	18	06Nov2022
Sprint-3	20	6 Days	07Nov2022	12Nov2022	15	14Nov2022
Sprint-4	20	6 Days	14Nov2022	19Nov2022	19	21Nov2022

6.3 REPORT FROM JIRA:

A) SPRINT 1:

Add project details

You can change these details anytime in your project settings.

Name

Key

ECYPUDA

Template

Kanban **RECOMMENDED**
Visualize and advance your project forward using issues on a powerful board.

Type

Team-managed **RECOMMENDED**
Control your own working processes and practices in a self-contained space.

Back Create project

Welcome to Project! Delighted Chat with mentor (1) WhatsApp Add project details - Jira IBM-Project-17504-16596726...

sreenandini12.atlassian.net/welcome/software

Gmail YouTube Maps

Jira Software Your work Projects Filters Dashboards People Apps Create Search

Does your team need more from Jira? Get a free trial of our Standard plan.

Projects / Estimate crop yield prediction using data analytics

ECYPUDA board

GROUP BY None

TO DO IN PROGRESS DONE

+ Create issue

Planning Roadmap Board

Development Code

Project pages Add shortcut Project settings

You're in a team-managed project Learn more

Quickstart

Welcome to Project! Delighted | Chat with mentor | (3) WhatsApp | Estimate crop yield prediction | IBM-Project-17504-165967266 | +

Gmail YouTube Maps

Jira Software Your work Projects Filters Dashboards People Apps Create Search

Roadmap

Projects / Estimate crop yield prediction using data analytics

Roadmap

Give feedback Share Export ...

Planning Roadmap Board

Development Code

Project pages Add shortcut Project settings

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ECYPUDA-5 sprint 1

- ECYPUDA-7 loading dat... DONE
- ECYPUDA-10 understand... DONE

ECYPUDA-11 sprint 2

- ECYPUDA-12 convert data... TO DO
- ECYPUDA-16 explore the da... TO DO

ECYPUDA-14 sprint 3

- ECYPUDA-17 creating the da... TO DO
- ECYPUDA-18 creating a dah... TO DO

NOV 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

Today Weeks Months Quarters

7:59 PM 11/8/2022

The screenshot shows the Jira Software Roadmap view for the project "Estimate crop yield prediction using data analytics". The left sidebar includes links for "Roadmap", "Board", "Code", "Project pages", "Add shortcut", and "Project settings". The main area displays a Gantt chart for November. Sprint 1 (Nov 7-10) has tasks ECYPUDA-7 (DONE) and ECYPUDA-10 (DONE). Sprint 2 (Nov 12-15) has tasks ECYPUDA-12 (TO DO) and ECYPUDA-16 (TO DO). Sprint 3 (Nov 18-21) has tasks ECYPUDA-17 (TO DO) and ECYPUDA-18 (TO DO). The interface includes a search bar, filter buttons for "Status category" and "Epic", and navigation buttons for "Today", "Weeks" (selected), "Months", and "Quarters". The bottom status bar shows the time as 7:59 PM on 11/8/2022.

The screenshot shows the Jira Software Agile board for the project "Estimate crop yield prediction using data analytics". The board is titled "ECYPUDA board". The left sidebar shows "Board" selected under "DEVELOPMENT". The board has three columns: "TO DO 7 OF 7 ISSUES", "IN PROGRESS", and "DONE 2 OF 2 ISSUES".

- TO DO 7 OF 7 ISSUES:**
 - convert datas into required format (SPRINT 2, ECYPUDA-12)
 - explore the data which is uploaded (SPRINT 2, ECYPUDA-16)
 - creating the data visualization chart
- IN PROGRESS:**
 - convert datas into required format (SPRINT 2, ECYPUDA-12)
 - explore the data which is uploaded (SPRINT 2, ECYPUDA-16)
- DONE 2 OF 2 ISSUES:**
 - loading dataset (SPRINT 1, ECYPUDA-7)
 - understanding the dataset (SPRINT 1, ECYPUDA-10)

The status indicators at the top of the board are: SN, S, SS, SR.

B) SPRINT 2:

The screenshot shows the Jira Software Agile board for the project "Estimate crop yield prediction using data analytics". The board is titled "ECYPUDA board". The left sidebar shows "Board" selected under "DEVELOPMENT". The board has three columns: "TO DO 5 ISSUES", "IN PROGRESS 2 ISSUES", and "DONE 2 ISSUES".

- TO DO 5 ISSUES:**
 - creating the data visualization chart (SPRINT 3, ECYPUDA-17)
 - creating a dashboard (SPRINT 3, ECYPUDA-18)
- IN PROGRESS 2 ISSUES:**
 - convert datas into required format (SPRINT 2, ECYPUDA-12)
 - explore the data which is uploaded (SPRINT 2, ECYPUDA-16)
- DONE 2 ISSUES:**
 - loading dataset (SPRINT 1, ECYPUDA-7)
 - understanding the dataset (SPRINT 1, ECYPUDA-10)

The status indicators at the top of the board are: SN, S, SS, SR.

Jira Software - Agile board

ECYPUDA board - Agile board

Projects / Estimate crop yield prediction using data analytics

ECYPUDA board

TO DO 5 ISSUES

- ECYPUDA-18
- visualisation using python
- ECYPUDA-19
- creating the report
- ECYPUDA-21

IN PROGRESS

DONE 4 ISSUES

- explore the data which is uploaded
- ECYPUDA-16
- convert data into required format
- ECYPUDA-12

GROUP BY None

7:38 PM 11/10/2022

This screenshot shows the Jira Agile board for the project 'Estimate crop yield prediction using data analytics'. The board has three columns: 'TO DO 5 ISSUES', 'IN PROGRESS', and 'DONE 4 ISSUES'. The 'TO DO' column contains five tasks: 'ECYPUDA-18', 'visualisation using python', 'ECYPUDA-19', 'creating the report', and 'ECYPUDA-21'. The 'IN PROGRESS' column is currently empty. The 'DONE' column contains four tasks: 'explore the data which is uploaded', 'ECYPUDA-16', 'convert data into required format', and 'ECYPUDA-12'. A sidebar on the left provides navigation links for planning, development, and code, along with project pages and settings.

Jira Software - Roadmap

Estimate crop yield prediction us...

Projects / Estimate crop yield prediction using data analytics

Roadmap

NOV 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

ECYPUDA-5 sprint 1

ECYPUDA-11 sprint 2

ECYPUDA-16 explore th... DONE

ECYPUDA-12 convert da... DONE

ECYPUDA-14 sprint 3

ECYPUDA-20 sprint 4

+ Create Epic

Give feedback Share Export ...

Today Weeks Months Quarters

7:39 PM 11/10/2022

This screenshot shows the Jira Roadmap for the project 'Estimate crop yield prediction using data analytics'. The roadmap displays tasks across a timeline from November 3 to 23. The tasks are grouped into sprints: 'ECYPUDA-5 sprint 1' (Nov 3-6), 'ECYPUDA-11 sprint 2' (Nov 9-13), 'ECYPUDA-14 sprint 3' (Nov 13-16), and 'ECYPUDA-20 sprint 4' (Nov 16-20). Some tasks have been completed, indicated by a 'DONE' status and a checkmark. A sidebar on the left provides navigation links for planning, development, and code, along with project pages and settings.

C) SPRINT 3:

The screenshot shows the Jira Software interface for the ECYPUDA project. The left sidebar includes sections for PLANNING (Roadmap), DEVELOPMENT (Code, Project pages, Add shortcut, Project settings), and a note about being a team-managed project. The main area displays an Agile board with three columns: TO DO, IN PROGRESS, and DONE. The TO DO column contains one task: "export the analytics" (SPRINT 4). The IN PROGRESS column contains two tasks: "creating the data visualization chart" (SPRINT 3) and "visualisation using python" (SPRINT 3). The DONE column contains three tasks: "loading dataset" (SPRINT 1), "understanding the dataset" (SPRINT 1), and "explore the data which is uploaded" (SPRINT 1). A sidebar on the right allows grouping by "None". The bottom status bar shows the time as 1:20 PM and the date as 11/11/2022.

The screenshot shows the Jira Software interface for the ECYPUDA project. The left sidebar includes sections for PLANNING (Roadmap), DEVELOPMENT (Code, Project pages, Add shortcut, Project settings), and a note about being a team-managed project. The main area displays an Agile board with three columns: TO DO, IN PROGRESS, and DONE. The TO DO column contains one task: "ECYPUDA-23" (SPRINT 4). The IN PROGRESS column is empty. The DONE column contains three tasks: "ECYPUDA-18" (SPRINT 3), "ECYPUDA-19" (SPRINT 3), and "creating the data visualization chart" (SPRINT 3). A sidebar on the right allows grouping by "None". The bottom status bar shows the time as 1:21 PM and the date as 11/11/2022.

Roadmap

Projects / Estimate crop yield prediction using data analytics

Give feedback Share Export ...

Planning: Roadmap

Development: Code, Project pages, Add shortcut, Project settings

You're in a team-managed project Learn more

NOV 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

ECYPUDA-5 sprint 1

ECYPUDA-11 sprint 2

ECYPUDA-14 sprint 3

- ECYPUDA-18 creating a ... DONE 10
- ECYPUDA-19 visualisatio... DONE 5
- ECYPUDA-17 creating th... DONE 6
- What needs to be done?

ECYPUDA-20 sprint 4

Today Weeks Months Quarters

D) SPRINT 4:

Does your team need more from Jira? Get a free trial of our Standard plan.

Projects / Estimate crop yield prediction using data analytics

ECYPUDA board

TO DO 1 ISSUE

export the analytics SPRINT 4

ECYPUDA-23

+ Create issue

IN PROGRESS

DONE 7 ISSUES

creating a dashboard SPRINT 3

ECYPUDA-18 SPRINT 3

visualisation using python SPRINT 3

ECYPUDA-19 SPRINT 3

creating the data visualization chart

GROUP BY None

The screenshot shows the Jira Software Agile board for the project "Estimate crop yield prediction using data analytics". The board has three columns: TO DO, IN PROGRESS, and DONE.

- TO DO:** Contains a button "+ Create issue".
- IN PROGRESS:** Contains one issue: "export the analytics" (SPRINT 4) assigned to "ECYPUDA-23".
- DONE:** Contains seven issues:
 - "creating a dashboard" (SPRINT 3) assigned to "ECYPUDA-18".
 - "visualisation using python" (SPRINT 3) assigned to "ECYPUDA-19".
 - "creating the data visualization chart".

The sidebar on the left includes sections for PLANNING (Roadmap), DEVELOPMENT (Code, Project pages, Add shortcut, Project settings), and a note about being a team-managed project. The status bar at the bottom shows the time as 1:25 PM and the date as 11/11/2022.

The screenshot shows the Jira Software Agile board for the project "Estimate crop yield prediction using data analytics". The board has three columns: TO DO, IN PROGRESS, and DONE.

- TO DO:** Contains a button "+ Create issue".
- IN PROGRESS:** Contains a button "+ Create issue".
- DONE:** Contains eight issues:
 - "export the analytics" (SPRINT 4) assigned to "ECYPUDA-23".
 - "creating a dashboard" (SPRINT 3) assigned to "ECYPUDA-18".
 - "visualisation using python".

The sidebar on the left includes sections for PLANNING (Roadmap), DEVELOPMENT (Code, Project pages, Add shortcut, Project settings), and a note about being a team-managed project. The status bar at the bottom shows the time as 1:25 PM and the date as 11/11/2022.

(no subject) - nandhumani263@... Estimate crop yield prediction us... IBM New Tab

sreenandini12.atlassian.net/jira/software/projects/ECYPUDA/boards/1/roadmap

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Jira Software Your work Projects Filters Dashboards People Apps Create Search

Roadmap

Give feedback Share Export ...

Planning Roadmap Board

Development Code Project pages Add shortcut Project settings

You're in a team-managed project Learn more

SN S SR SS Status category Epic

NOV 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

ECYPUDA-5 sprint 1

ECYPUDA-11 sprint 2

ECYPUDA-14 sprint 3

ECYPUDA-20 sprint 4

ECYPUDA-23 export the ... DONE

What needs to be done?

Today Weeks Months Quarters

1:26 PM 11/11/2022

The screenshot shows a Jira Roadmap view for the project 'Estimate crop yield prediction using data analytics'. The roadmap spans from November 3 to November 23. It displays four sprints: ECYPUDA-5 sprint 1 (Nov 8-10), ECYPUDA-11 sprint 2 (Nov 10-13), ECYPUDA-14 sprint 3 (Nov 13-16), and ECYPUDA-20 sprint 4 (Nov 16-19). A vertical orange line indicates the end of the day on November 10. A blue box highlights a task in Sprint 4 labeled 'ECYPUDA-23 export the ... DONE'. The interface includes a sidebar with project navigation, status categories (SN, S, SR, SS), and a search bar.

CHAPTER 7

Coding And Solutioning

7.1. Features

Feature 1: Add Expense

Feature 2: Update expense

Feature 3: Delete Expense

Feature 4: Set Limit

Feature 5: Send Alert Emails to users

7.2. Other Features:

Track your expenses anywhere, anytime. Seamlessly manage your money and budget without any financial paperwork. Just click and submit your invoices and expenditures. Access, submit, and approve invoices irrespective of time and location. Avoid data loss by scanning your tickets and bills and saving in the app. Approval of bills and expenditures in real-time and get notified instantly. Quick settlement of claims and reduced human errors with an automated and streamlined billing process.

7.3 . CODES:

The Code was in the following github link [Code](#).

Demo link : [Github](#)

CHAPTER 8

TESTING

8.1. TESTING:

1. Login Page (Funcional)
2. Login Page (UI)
3. Add Expense Page (Functional)

8.2. User Acceptance Testing:

1. Purpose of Document

The purpose of this document is to briefly explain the test coverage and open issues of the [ProductName] project at the time of the release to User Acceptance Testing (UAT).

2. Defect Analysis

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

Resolution	Severity 1	Severity 2	Severity 3	Severity 4	Subtotal
By Design	10	4	2	8	15
Duplicate	1	0	3	0	4
External	2	3	0	1	6
Fixed	9	2	4	11	20
Not Reproduced	0	0	1	0	1
Skipped	0	0	1	1	2
Won't Fix	0	5	0	1	8
Totals	22	14	11	22	51

3. Test Case Analysis

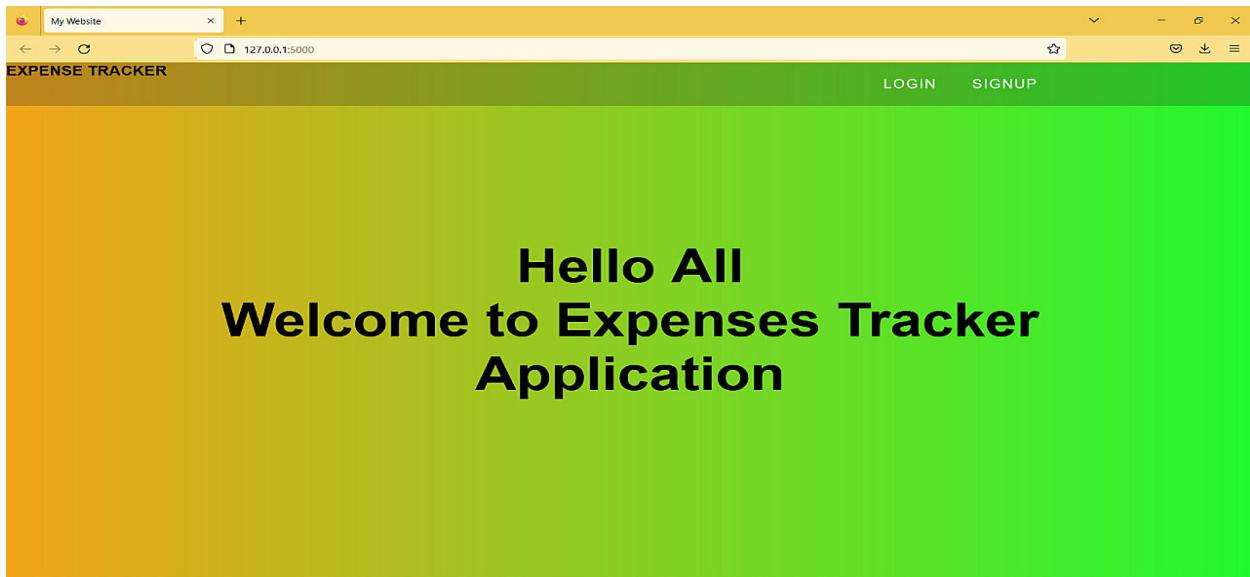
This report shows the number of test cases that have passed, failed, and untested

Section	Total Cases	Not Tested	Fail	Pass
Interface	7	0	0	7
Login	43	0	0	43
Logout	2	0	0	2

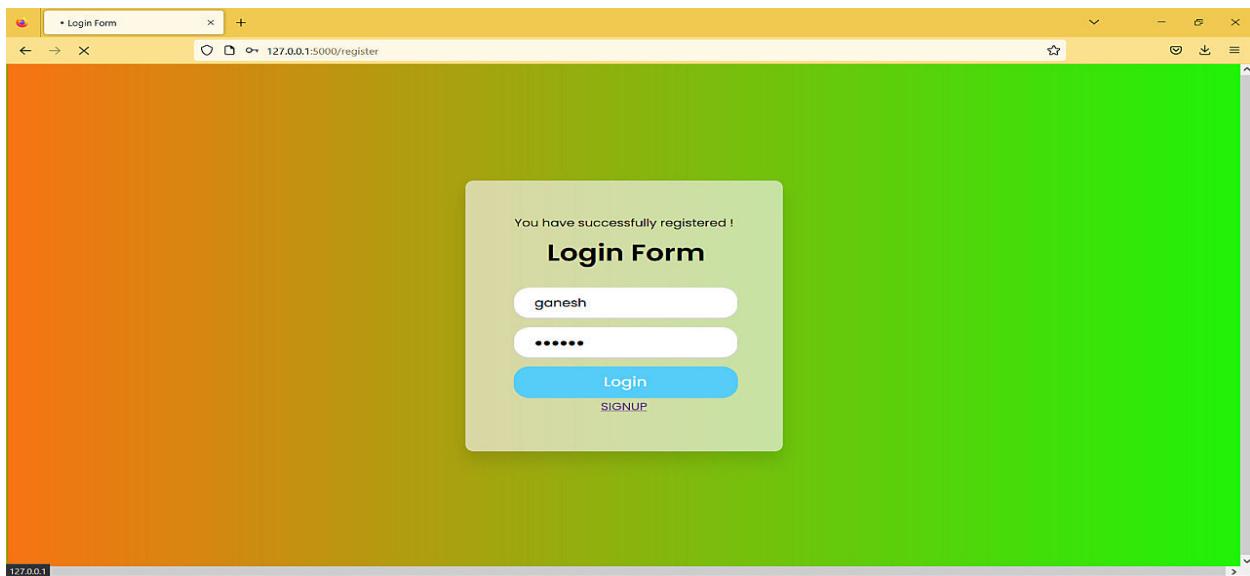
CHAPTER 9

RESULTS

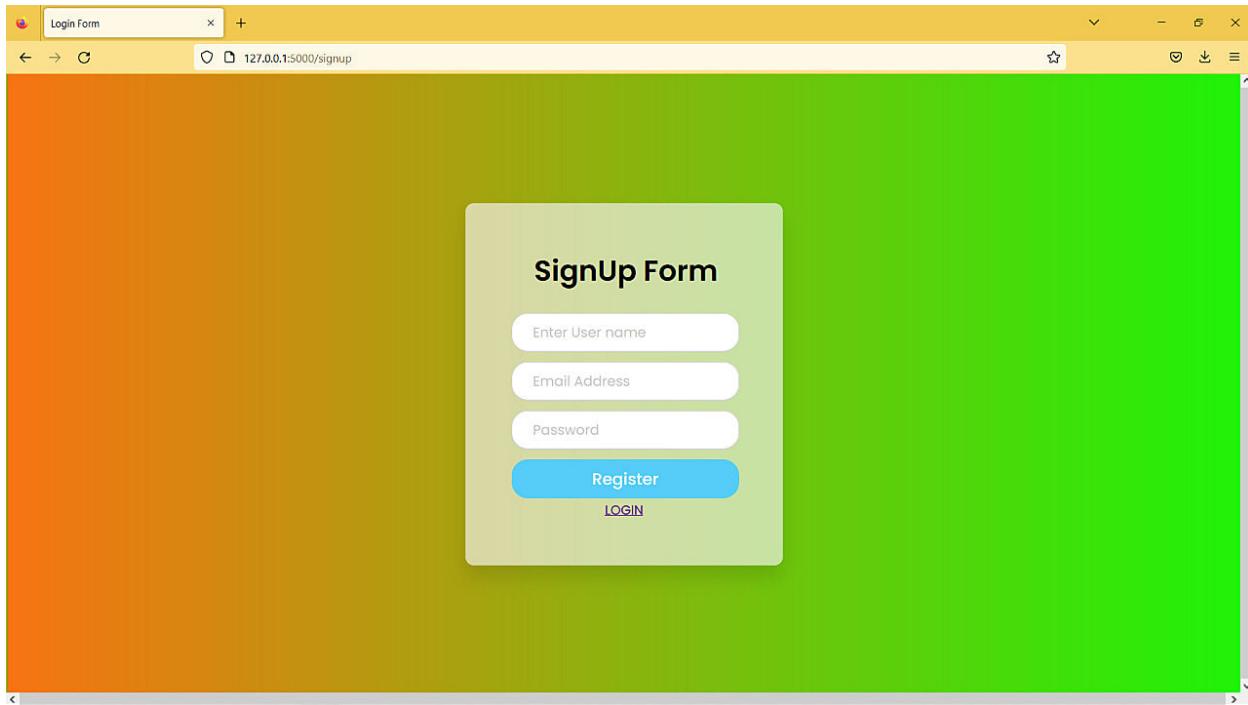
9.1 HomePage



9.2 login page



9.3 Sign up page



9.4 Expense Breakdown







Document

127.0.0.1:5000/add

HOME ADD HISTROY LIMIT TODAY MONTH YEAR Logout

Add Expense

19 / 11 / 2022
3000
shopping
debitcard
other

ADD

127.0.0.1

A screenshot of a web-based expense tracking application. The interface has a yellow header bar with a logo, a title 'Document', and standard browser controls. Below the header is a navigation menu with links like HOME, ADD, HISTROY, LIMIT, TODAY, MONTH, YEAR, and Logout. The main content area is titled 'EXPENSES' and displays a single row of data:

EXPENSES						
2022-11-19	shopping	₹ 3000	debitcard	other	Edit	Delete

A screenshot of the same web-based expense tracking application, now displaying two expense entries in the 'EXPENSES' table:

EXPENSES						
2022-11-19	shopping	₹ 3000	debitcard	other	Edit	Delete
2022-11-19	sharing	₹ 6000	cash	food	Edit	Delete



CHAPTER 10

ADVANTAGES AND DISADVANTAGES

10.1. ADVANTAGES:

Keeping accurate records of personal expenses is very important for many reasons,

- Create a monthly budget
- Know where you're spending more than you actually think you are
- Figure out ways to cut back on your spending
- Know how much extra payments you can make towards your debt
- Plan for future large purchases
- Create a savings plan for putting money away every month
- Plan for retirement
- Create an investment strategy with extra money

In short, knowing where each dollar is going to go before you spend it will help it spend more time in your bank account.

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 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. Even with constant tracking of one's spending habits, there is no guarantee that financial goals will be met. Although this can be considered to be a con of tracking spending, it could be changed into a pro if one makes up his or her mind to keep trying to properly manage all

finances. Another con that may occur when spending is being tracked is an error, but this may also be able to be changed into a pro if the person does regular tracking. Frequent tracking of cash spending can allow one to catch and correct errors so that the budget plan is still able to be adhered to despite the mistake.

CHAPTER 11

CONCLUSION

A comprehensive money management strategy requires clarity and conviction for decision making. You will need a defined goal and a clear vision for grasping the business and personal finances. That's when an expense tracking app comes into the picture. An expense tracking app is an exclusive suite of services for people who seek to handle their earnings and plan their expenses and savings efficiently. It helps you track all transactions like bills, refunds, payrolls, receipts, taxes, etc., on a daily, weekly, and monthly basis.

CHAPTER 12

FUTURE SCOPE

1. Achieve your business goals with a tailored mobile app that perfectly fits your business.
2. Scale-up at the pace your business is growing.
3. Deliver an outstanding customer experience through additional control over the app.
4. Control the security of your business and customer data.
5. Open direct marketing channels with no extra costs with methods such as push notifications.
6. Boost the productivity of all the processes within the organization.
7. Increase efficiency and customer satisfaction with an app aligned to their needs.
8. Seamlessly integrate with existing infrastructure.
9. Ability to provide valuable insights.
10. Optimize sales processes to generate more revenue through enhanced data collection.
11. Robo Advisors: Get expert investment advice and solutions with the Robo-advisors
12. feature. This feature will analyze, monitor, optimize, and improve diversification in investments by turning data into actionable insights in real-time. Chats: Equip your expense tracking app with a bot that can understand and answer all user queries and address their needs such as account balance, credit score, etc.

13. Prediction: With the help of AI, your mobile app can predict your next purchase, according to your spending behavior. Moreover, it can recommend products and provide unique insights on saving money. It brings out the factors causing fluctuations in your expenses.
14. Employee Travel Budgeting: Most businesses save money with a travel budgeting app as It helps prepare a budget for an employee's entire business trip. The feature will predict the expenses and allocate resources according to the prediction.

CHAPTER 13

APPENDIX

The Code was in the following github link [Code](#).

Demo link : [Video](#)