# **PROJECT REPORT**

## **PERSONAL EXPENSE TRACKER**

Team ID: PNT2022TMID26360

Team Leader: JAYANTHI PRASAD B

Team Member: HAYATH BASHA A

Team Member: ABISHEK RAJ E

Team Member: AJITH SP

#### 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 large amounts 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.

#### LITERATURE SURVEY

### 2.1 Existing Problem:

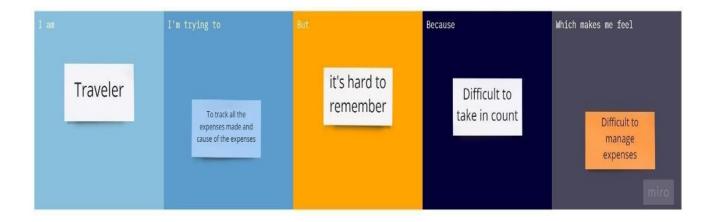
The Expense tracker existing system does not provide the user portable device management level, existing system only used on desktop software so unable to update anywhere expenses done and unable to update the location of the expense details disruptive that the proposed system provides. In existing, we need to maintain the Excel sheets, CSV files for the user daily, weekly and monthly expenses. In existing, there is no as such complete solution to keep a track of its daily expenses easily. To do so a person as to keep a log in a diary or in a computer system, also all the calculations need to be done by the user which may sometimes results in mistakes leading to losses. The existing system is not user friendly because data is not maintained perfectly. But this project will not have any reminder to remain a person in a specific date, so that is the only drawback in which the remainder is not present. This project will be an unpopulated information because it has some disadvantages by not remind a person for each and every month. But it can used to perform calculation on income and expenses to overcome this problem we propose the new project.

#### 2.2 References:

- [1] http://expense-manager.com/how-expense software/
- [2] https://www.splitwise.com/terms
- [3] http://code.google.com/p/socialauth-android/wiki/Facebook

- [4] http://code.google.com/p/socialauth-android
- [5] Developer.android.com
- [6] http://www.appbrain.com/app/expensemanager/com.expensemanager

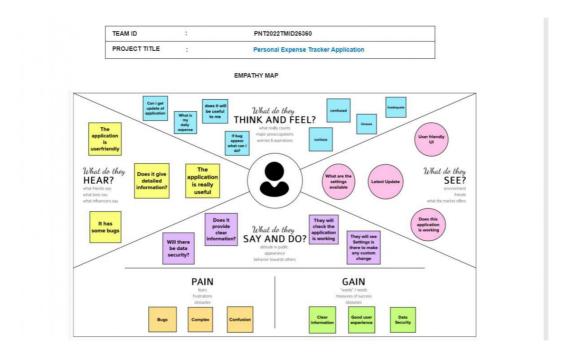
#### 2.3 Problem Statement:





#### **IDEATION & PROPOSED SOLUTION**

### 3.1 Empathy map canvas:



### 3.2 Ideation & Brainstorming:

Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving.

Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions.

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

#### 3.3 Proposed Solution:

**Problem Statement :** There are many budgeting tools online, but not all of them are effective in assisting users in actually creating and adhering to a budget. The ongoing maintenance, the consolidation of all user financial accounts and activity into a single dashboard are some of the negatives. However, a lot of this current software includes convoluted features that are difficult to use. The major problem is to take count paper receipts and calculate the expense statistics.

Idea / Solution description: People tend to neglect their budgets due to their busy and chaotic lifestyles, which results in them spending more than they planned. Future costs cannot be foreseen by the user. Their carelessness with money management will be a concern even though they can record their expense.

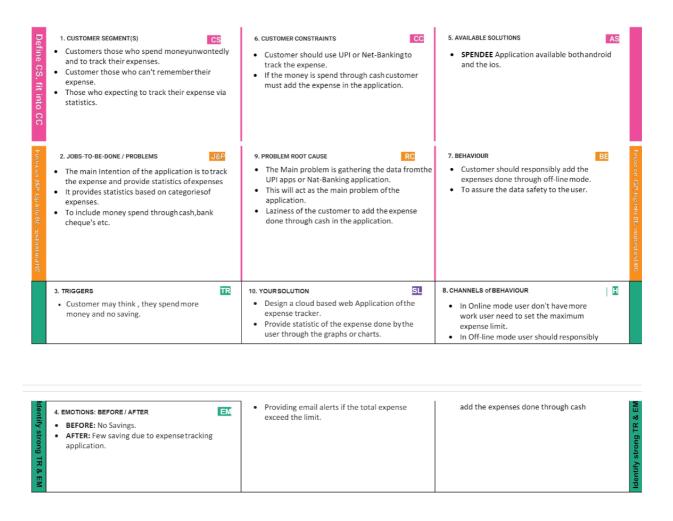
**Novelty / Uniqueness:** Including all the expense including money spend using cash,Bank-cheques, etc. This application keeps track of all of your spending. To enter your expense, simply click. To decrease human error, prevent data loss, and expedite settlements. In this program to display the pie chart or graph lines.

**Social Impact / Customer Satisfaction:** One can keep track of their own costs and create a monthly or annual budget with this tool. The application will display the statistics and sent alert message, if your spending exceeds the specified limit.

**Business Model (Revenue Model):** The subscription/ premium to access extra features of this application can be used by business people, and also adding advertisement to generate revenue.

**Scalability of the Solution:** Using IBM-cloud statistics can be shown to the user with high scalability, and with high accuracy.

#### 3.4 Proposed Solution fit:



# **REQUIREMENT ANALYSIS**

# 4.1 Functional Requirement:

#### Non-functional Requirements:

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

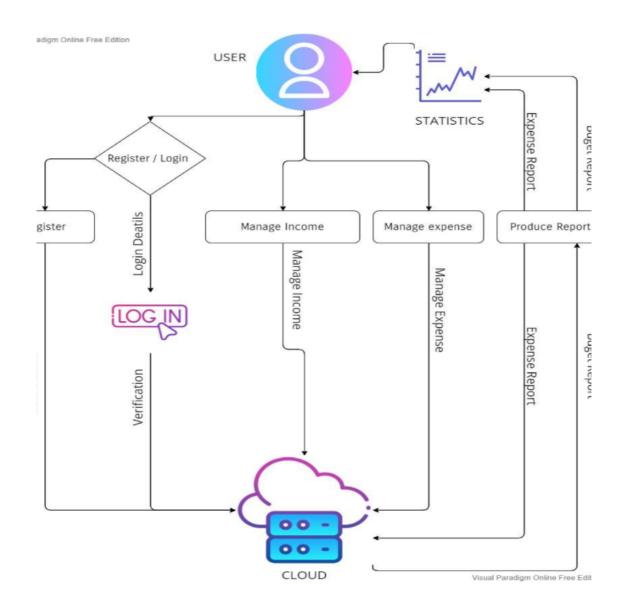
FR No.	Non-Functional Requirement	Description  Effectiveness, efficiency, and overall experience of the user interacting with our application should be maximised.		
NFR-1	Usability			
NFR-2	Security	Authentication, authorization, encryption of the data must be done in the application.		
NFR-3	Reliability	Probability of error in the operations in a specified environment for a specified time should be minimised.		
NFR-4	Performance  How the application is functioning accurately and e the application is to the end-users.			
NFR-5	Availability	Using Cloud Storage and database, application reliability and the user satisfaction will affect the solution		
NFR-6	Scalability	Capacity of the application to handle growth, especially in handling more users.		

# 4.2 Non-Functional Requirement:

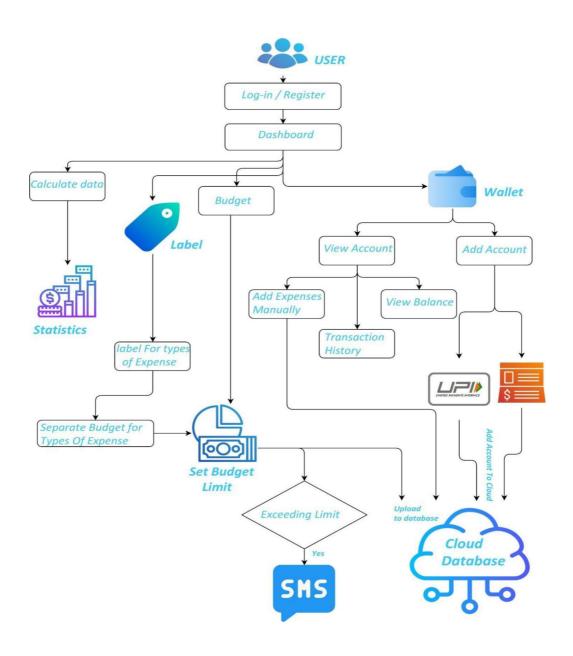
FR No. Functional Requirement (Epic)  FR-1 User Registration		Sub Requirement (Story / Sub-Task)  Registration through Form Registration through Gmail Registration through LinkedIN		
FR-3	User Data	Data gathered in the application server is saved in the high security cloud server.		
FR-4	Alert Notification	Alert messages through the Email or SMS.		
FR-5	User Monthly Budget Plan	Setting Monthly budget to manage their expenses.		
FR-6 Cloud Data Storage		To save the user valuable data high security cloud storage are used (AWS, IBM, GOOGLE, etc)		

# **PROJECT DESIGN**

# 5.1 Data Flow Diagram:



## **5.2 Solution & Technical Architecture:**



#### 5.3 User Stories:

#### **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-2	As a user, I can register for the application through Facebook	I can register & access the dashboard with Facebook Login	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail		Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password		High	Sprint-1
	Dashboard		As a user, I can access my detail, manage the expense, add budget, expense report from the app etc		High	Sprint-1
Customer (Web user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard	High	Sprint-1
	Login	USN-2	As a user, I can log into the application by entering email & password		High	Sprint-1
	Dashboard	USN-3	As a user, I can access my detail, manage the expense, add budget, expense report from the app etc		High	Sprint-1
Customer Care Executive	Email or Customer Care no		As a user, I can contact the service administration for the support.	I can solve the Issue.	High	Sprint-3
Administrator	Email or Customer Care no		As a user, I can contact the service administration for the support.	I can solve the Issue.	High	Sprint-1