

## **IDEATION PHASE**

### **LITERATURE SURVEY**

**TEAM ID :PNT2022TMID29142**

**PROJECT NAME : PERSONAL EXPENSE TRACKER**

#### **1.Author and year of Publication**

Velmurugan A, Albert Mayan, Niranjana P and Richard Francis, 2020.

#### **Title of the Paper**

Expense Manager Application

#### **Features**

The first phase after installing the application is Expense Tracker. We need to give SMS read permission to the app since the whole idea of the app revolves around the transactions made online for which you get a message after any transaction done. The second feature of the app is Investment Consustant. It asks for the user's budget for investment. Accordinglythe app suggest the best suitable option using the help of the algorithm designed. The Third feature is splitbill used to split bills among friends and groups. Stock Market feature helps the user to view the latest stock market using a API which is viewed inside a web view. Offers/Coupons feature provides the user with the latest ongoing offers in popular categories that are available on trusted ecommerce websites. Finance news features provides the user with authenticated finance news. Upi Payment feature is used for payment purposes.

#### **Advantages**

- Keep track of all your daily transactions.
- Keep track of your money lent or borrowed.
- Suggest you with the best investment options.
- Offers in popular categories.
- To view stock market.
- To read latest authenticated financial news.

#### **Limitation**

Evaluating costs the opposite part interesting piece of our cost supervisor application is to measure costs that client may spend in present or one month from now. This can assist the client with adjusting his costs appropriately so he/she can abstain from bobbing up short on cash, gathering client information. The assortment of knowledge of costs and pay of client from databases is easy undertaking since each record of client action is put away straightforwardly in database server maintained. Yet, to create the application safe and to stay up secrecy of client information we attempt vital strides to counter this issue.

## **2. Author and year of Publication**

Hrithik Gupta, Anant Prakash Singh, Navneet Kumar and J. Angelin Blessy, 2020.

## **Title of the Paper**

Expense Tracker: A Smart Approach to Track Everyday Expense

## **Features**

Main Window, a Starting page with welcome note appears at the first page and the window where user can add the expense. Then add Category allow the user to add category as per his/her choice. Category Combo Box, this Combo Box contains all the category added by the user. Remove Button, this Button delete any entry of last 20 days expenses. Add Category Window, this window helps the user to easily interact with the category, where user can add and remove the category as per his choice. Calender, the system shall allow users to add the date to their expenses. View Expense Day wise/Category wise Window, this window allows the user to interact with the expense according today wise as well as category wise. Menu option, this allows user to interact with other pages by just clicking on the menu option, this allows user to search their expenses according to category as well as date wise by clicking on the search button. Refresh button, by clicking on this button user have to update the category APPLICATION

## **Advantages**

Expense Tracker app is usable by anyone who are willing to manage their expenses and aiming to save for the future investments. This app has no range criteria or any kind of profession or gender are focused so it will be used hugely by any other person.

## **Limitation**

This application will help its users to manage the cost of their daily expenditure. It will guide them and aware them about their daily expenses. But there is not a mails and pay mode embedded with the app and backup details recorded on database.

### **3. Author and year of Publication**

Velmurugan.R, Mrs.P.Usha, 2021.

### **Title of the Paper**

Expense Tracker Application

### **Features**

Users can create multiple accounts. In the account tab. User has the option available for creating a new account and Users will click the “+” sign button then a dialog will appear on the screen and the user could enter the name of the account then that name will be saved in the account tab. If a user wants to delete the particular account, then the user has to click the account name user want to delete. Then that account will be deleted. In Add expenses user enters any transaction then that transaction will be added in Transaction tabs. If the user wants to delete that transaction, then the user has to long click the transaction will be deleted from tabs. In add category user can add the categories. In the transaction tab, the user can filter the transaction.

### **Advantages**

This application will help us to reduce the manual calculations for their daily expenses and also keep the track of the expenses. With the help of this application, user can calculate his total expenses per day and these results will be stored for unique user. Keeping a log in diary is a very monotonous process and also may sometimes lead into problems due to the manual calculations. Looking on all the above given conditions, we are trying to satisfy the user requirements by building a mobile application which will help them reduce their burdens.

### **Limitation**

Developed such type of android application which help the users to reduce their effort of handling daily expenses. That the application will have various components of updating and viewing user expenditures. Adding certain components to the application to make it more useful to the user. Some of the

extra Components are like enabling users to register to the application using existing email or social network account, it will synchronize the user's profile data to the application.

#### **4. Author and year of Publication**

Dr. V. Geetha, G. Nikhitha, H. Sri Lasya Dr. C.K. Gomathy, 2022

#### **Title of the Paper**

Expenditure Management System

#### **Features**

In proposed system user has more number of added features to the existing features like Weekly Budget Planner, Automated message Alert, UPI linkup, Weekly and Monthly Analysis, App Authentication, Wish list, Rewards Weekly Budget Planner to track their expenses. Automated message Alert is generated when they cross their budget. UPI linkup to track their online transactions. Weekly and Monthly Analysis are generated in the form of pie chart. App Authentication for security of the user. Income, Expenses, and Wish List are the three data entry choices available to the user.

#### **Advantages**

Application is helpful to manage our income and expense daily or periodically or else whenever we want to remind. It also acts as an indicator or reminder example in the fastest world in which we cannot remember what the things we have to do for the end of the month are and the payments we have to pay for the particular month. Due to some conflict or other stress, we sometimes forget what the income is, where the money has to come from, or the payments we have to pay. This app will assist you in keeping track of what you need to do at the end of the month.

#### **Limitation**

Expense tracker to prevent having to calculate income and expenses, as well as to remind someone to keep their expenses in track and also to add some details on how much money comes from other people and what expenses or payments the user have to make on a given date or month, User have categories in the expenditure tracker such as add expense, monthly expenses, add new expense, see categories of spending, export expenses in a date range, remove export files, and view expenses by category.

## **5. Author and year of Publication**

R. Radhika, Anagha Praveen, G. Gokul Krishna, Adithya Anand, and T. Anjali, 2022.

### **Title of the Paper**

Finance Tracker

### **Features**

This application provides a password-based secured access to the user thereby ensuring authentication. There is a dashboard providing an easy and simple view of all the functionalities in one place. The user is required to add income to different categories provided. The user is also required to add his/her expenses corresponding to different categories provided such as food, clothing, etc. There is also an inbuilt calculator provided so that the calculations become a lot easier and the user has everything available at one place. Thereby, making this application a one-stop destination for all the requirements of the user.

### **Advantages**

This application allows the user to record their monthly expenses in an efficient and organized format. The application helps us minimize the hand-operated computations by letting us segregate our income and expenditure into different categories and thereby gives us a lucid idea to keep a track of the expenditure. Users can come up with their income to figure out the total expenses (allowed) per day, and these results will be unique for each user. Users may add/remove their categories of income and expenses as per their motive. Users can also add the bills by attaching the image of the bill so as to refer to it in the near future.

### **Limitation**

This we all need to ensure and for which we need to re-evaluate our budget. Families need to re-evaluate their budgets and sort expenses. A clear demarcation between necessary and extravagance spend needs to be done. There is no cross-platform compatibility to make it more user-friendly UI and also easy to track the finances and budget for all kinds of devices.

## **6. Author and year of Publication**

Muskaan Sharma, Ayush Bansal, Dr. Raju Ranjan, Shivam Sethi, 2021.

## **Title of the Paper**

A Novel Expense Tracker using Statistical Analysis

## **Features**

The working of the system is simple. The user will first go to the welcome page of Expense Tracker. Here he/she will be given an option to either create a database by using Sign-Up option or enter an existing database by using Login option. If the user does not have any database then they have to create a database after which they will be redirected to the login page to enter their database details. After this what comes next is the home module for entering data for Income and Expense. Here the user will enter their income amount as well as daily expenses. These will be stored in the database and then a summary will be created. This will include a graph with income-expense comparison. If the income is greater than total expense, then the remaining income will be added to the income of next time and if the expense is greater than income, then the expected expense will be calculated for next day to warn the user about the expenditure limit which will help in balancing out the amount.

## **Advantages**

The purpose of this tool is to:

- A) Keep tracking daily expenses and budgeting;
- B) Save money for necessary expenses which in return will help to plan the future investments.

## **Limitation**

Tracking the daily expenses can not only help in saving money but also help in setting financial goals for the future. If we know where our money is being spent every day, it is easy to set some cutbacks and such to help reduce expenditure. This project is developed to work more efficiently in comparison to other trackers and avoid manual calculation. It is developed to be efficient and look attractive at the same time.

## **7. Author and year of Publication**

Aman Garg, Mukul Goel, Sagar Mittal, Mr. Shekhar Singh, 2021.

## **Title of the Paper**

Expense Tracker

## **Features**

Below are some of the features that are not present that we are trying to implement in our application.

1. Register
2. Sign-in
3. Add income
4. Categorize the expenditures
5. Update the expenditures
6. View expenditures in form of graphs and Tables
7. Report generation
8. Comparison of prices
9. Notifications

## **Advantages**

1. Prioritize Your Spending
2. Become Aware of Poor Spending Habits
3. Expenses Reminder
4. Take Control of Your Finances
5. Saving and Investment

## **Limitation**

Tracking your expenses daily can not only save your amount, but it can also assist you set financial goals for the longer term. If you know exactly where your amount goes every month, you will easily see where some cutbacks and compromises can be made. The project that we have developed is more efficient than the other income and expense trackers. The project successfully avoids the manual calculation which is performed usually in the absence of an expense tracker. The modules are developed efficiently and also in an attractive

manner. The application will eliminate sticky notes, spreadsheets, and ledgers that cause confusion, data inconsistency problems while recording and splitting expenses. With our application users can manage their expenses more effectively and they will be better at managing the expenses.

## **8. Author and year of Publication**

Saumya Dubey, Pragya Dubey, Rishabh Kumar, Aisha Khatoon, 2022.

## **Title of the Paper**

Student Expense Tracking Application

## **Features**

There are various applications on the play store for managing our expenses and keep records of our spending's. Some of the applications are like spend book, pocketwards, home budget etc. The substantial part of these applications aims to take input of money and novels money related problems and learn the expenses by that. This application mainly focuses on tracking the expenses of a student and it works like a digital diary that will help the student to stay away from manually calculating everything using pen and paper. It has categories such as tuition fees, food, clothing, travel, coaching, stationary, hostel fees etc. Here we can see the status of our bills and it is convenient for middle class people.

## **Advantages**

The student can include this application in his/her daily routine by this he can be disciplined about his expenses and get better and better at saving, and utilize the money on learning new skills or buying presents for parents etc. They will also focus on earning money and making new sources of money in turn getting better future ahead. This application will also help in analyzing the monthly expenditure.

## **Limitation**

Hence, this application can be treated as version-1 and later we will update and add new feature to it accordingly. Once the user gets familiar with the settings of the application, then we can update it to version-2. Our future work will be to merge this application with credit/debit or any of the smart card and



will keep therecord of each and every credit and debit. It will update the details automatically and we will be able to monitor our spending easily.

## **9.Author and year of Publication**

Prof Miriam Thomas, Lekshmi and Dr. Mahalekshmi, 2020 .

## **Title of the Paper**

Expense Tracker

## **Features**

This application allows users to maintain a digital automated diary. Each user will be required to register on the system at registration time, the user will be provided id, which will be used to maintain the record of each unique user. Expense Tracker application which will keep a track of Income-Expense of a user on a day to day basis. The best organizations have a way of tracking and handling these reimbursements. This ideal practice guarantees that the expenses tracked are accurately and in a timely manner. From a company perspective, timely settlements of these expenses when tracked well will certainly boost employees' morale.

## **Advantages**

Financially Aware and Improve Money Management tracking your expenditures ensures you achieve your project financial targets. By clearly understanding your project spending using project budget limits, you can aptly make the necessary changes to complete your project within time and budget.

## **Limitation**

The developed systems dispense the problem and meet the needs of by providing reliable and comprehensive information. All the requirements projected by the user have been met by the system. The newly developed system consumes less processing time and all the details are updated and processed immediately. Since the screen provides online help messages and is very user-friendly, anyuser will get familiarized with its usage. Modules are designed to be highly flexible so that any failure requirementscan be easily added to the modules without facing many problems.

## **10. Author and year of Publication**

Nidhi Jitendra Jadhav, Rutuja Vijay Chakor, Trupti Mahesh Gunjal, Damayanti. D. Pawar, 2022.

## **Title of the Paper**

Expense Tracker

## **Features**

- 1) Login: The login screen is used to verify the identity of the user. It's used to keep unauthorized users from accessing the programme. The account can be accessed using the user's email address and password.
- 2) Registration Screen: The registration page is; a new user must first complete the application's registration process. Certain details must be submitted by the user to complete the registration procedure. These are the following information: e-mail address, password, and password confirmation. The user is identified using these details.
- 3) Home Screen: On the main page, we can see overall revenue and spending, as well as the balance remaining after expenditure, as well as the user's entire list of transactions and categories.
- 4) Add Transaction: User adds and notes transactions by clicking on the floating action button and fills in the details of the transaction.
- 5) Transaction Receipt: A user can examine the specifics of a transaction by clicking on it, and they can also share the receipt with friends and family as evidence of transaction or to keep track of a specific transaction.
- 6) Statistics: We may see a pictorial depiction of all transactions in the form of a pie chart, where each slice of the pie chart symbolizes distinct categories of transactions, allowing the viewer to gain an approximate notion of which category has the highest expenses.

## **Advantages**

Expense Tracker will be a mobile application that can be used at any time.: the first is the database layer, which will hold all of the data and financial information. Second, the programme will be supported by the user interface. The suggested system should allow users to communicate with the system as well as save information. Users should be able to choose from a variety of categories and enter the amount and mode of payment. This system should be capable of analysing data. provide information on the categories the user spent the most money in. The suggested system should have a user interface that allows users to save and track their previous expenses. Track money is an android application which is developed with a concept in mind to help users to easily manage all their income and expenses and keep track of all credits and debits of transaction according to different categories, also users can have a pictorial representation of all the transactions of different categories and can also download excel reports of transaction. App also receives customised tips in the form of push notifications which helps users to manage expenses.

### **Limitation**

Expense Tracker was developed in several stages. The method utilised is a top-down approach, with the focus on what comes first, followed by how, and then on to subsequent levels of detail. Many issues were uncovered during the course of this research that have hampered the effectiveness of the old manual approach. These issues, information requirements, and actions were documented and used as the foundation for system design, which came after the first phase. The design phase was largely focused with defining the system elements in a way that best matched the organization's business requirements. During this phase, recognised software engineering principles and practises were strictly followed