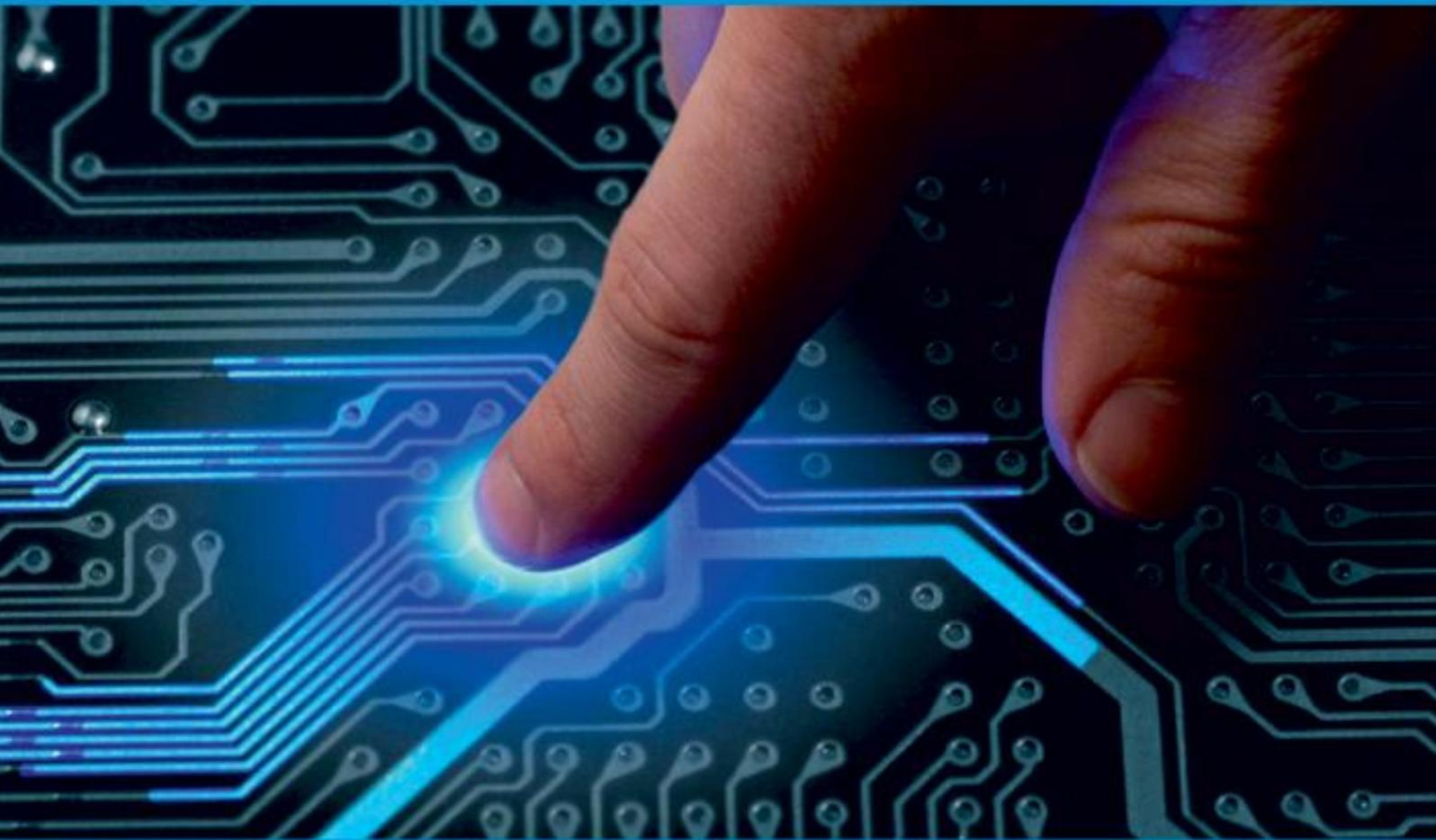




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Developing a Personal Expense Tracker Using Cloud Application Development

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ABSTRACT: A Online tool that assists users in managing their spending is the expense tracker. Keeping track of one's financial income and outlays is beneficial. keeping track of one's financial income and outlays is beneficial. It enables the user to quickly get expense information. This programme uses a number of security features, including encryption technology, strong passwords, and anti-malware software, to safeguard user protection and privacy. In particular VPN encryption (virtual private network). Since the cost tracker programme is entirely digital, there is no worry about files becoming lost or deleted. It avoids manual calculations, which saves time and guarantees accurate calculations. It is incredibly user-friendly since all the user needs to do is enter their income and expenses; the system will take care of the rest.

KEYWORD: Daily Expense and Income, Least Square Algorithm, Prediction, IBM Watson, VPN

I. INTRODUCTION

The expense tracker tool serves several purposes, including helping us effectively manage our budget, keep track of all our daily activities, and monitor any loans or borrowings we make. It directs the user and lays out a roadmap for spending, forecasting our upcoming costs. Simple registration requirements include providing a name, phone number, username, and password. This programme may be utilised for a variety of purposes (i.e family purpose, business purpose, personal purpose). Students may use it to manage their tuition costs and other expenses. When the expenditure amount surpasses the cap, a reminder will be sent. We can limit or make some reductions in our spending. The software generates a statistical report based on the data we provide on a monthly, weekly, or daily basis.

II. OBJECTIVE

The main objective of the application to manage the income and expenses of the users in an effective and easy way. It is very useful and easy for smartphone users. It predicts the accurate income and outflow of the user. This application also helps us to have a control over your money, to set financial problems.

III. LITERATURE REVIEW

1. "Expense tracker application"

This application is used to keep record of user personal expenses, his/her contribution in group expenditures, top investment options, view of the current stock market and graph the best ongoing offer in the market. It eliminate the sticky notes, spread sheets confusion and data handling inconsistency problems.

2. "Daily Expense Tracker"

Daily Expense Tracker is a gadget that being developed to help customers in budget planning. It offers end customers to file their earnings and costs within the finances that have been planned beforehand.

3. “Expenditure management system”

This application uses Weekly Budget Planner to track their expenses. Automated message Alert is generated when they cross their budget. UPI link upto track their online transactions. Weekly and Monthly Analysis are generated in the form of pie. chart. App Authentication for security of the user. Expenses, and Wish List are the three data entry choices available to the user

5. “Expense Tracker”

We are building an android application named as “Expense Tracker”. As the name suggests, this project is an android app which is used to track the daily expenses of the user. It is like digital record keeping which keeps the records of expenses done by a user. The application keeps the track of the Income and Expenses both of user on a day- to-day basis. This application takes the income of a user and manage its daily expenses so that the user can save money

6. “A Review on Budget Estimator Android Application”

In existing, we need to maintain the excel sheets, csv etc. files for the user daily and monthly expenses. In existing, there is no as such complete solution to keep a track of its daily expenditure easily. to do so a person as to keep a log in a diary or in a computer, also all the calculations needs to be done by the user which may sometimes results in errors leading to losses.

IV. PROPOSED METHOD

1.To solve the problem faced in tracking and controlling expenses by categorize the expenses based on priority level
Idea /Solution description

2. Categorize the expenses into decisive priority, average priority, low precedence.

- Decisive priority (food, loan, insurance, medical, etc...)
- Average priority (Transportation, rent)
- Low precedence (Clothing, cosmetics, Decoration)

3.Novelty/Uniqueness: To fix the certain limited amount for decisive, average and low priority and to notify by giving an alert when exceeds the limited amount of money.

4.Social impact / Customer Satisfaction: Become aware of poor spending habits and take care of your finances, saving and investment.

5. scalability: Getting disciplined about expenses and to get better and better at savings and it helps to set some cutbacks and helps to reduce expenditure.

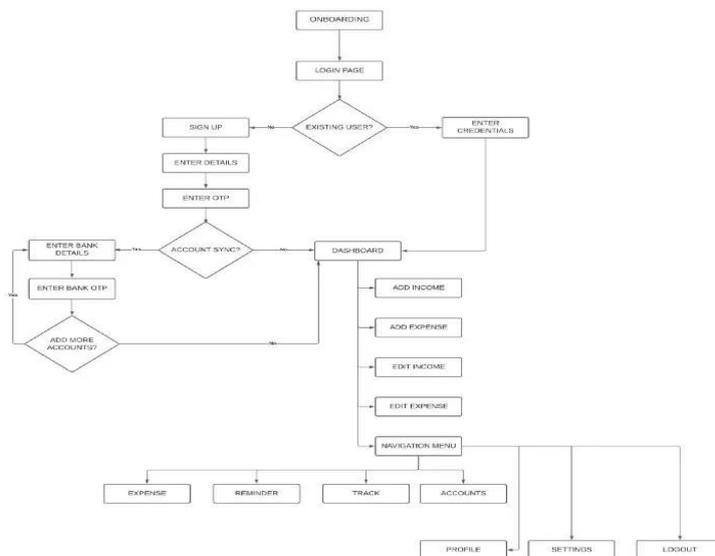


Fig 1: Data flow diagram

V. MODULE DESCRIPTION

A. LOGIN MODULE:

This module is responsible for a registered user to login and sign in to the account of there application.

B. SIGNUP MODULE:

This is responsible for registering a new user.

C. SESSION MODULE:

This module is responsible for creating a session when a user login.

D. ADD BILL:

This responsible to enable the user to add a new bill.

E. DELETE THE BILL:

This is responsible for predefined bill.

F. VIEW EXPENSE:

This is responsible for viewing all the expense in detail.

6. ARCHITECTURES:

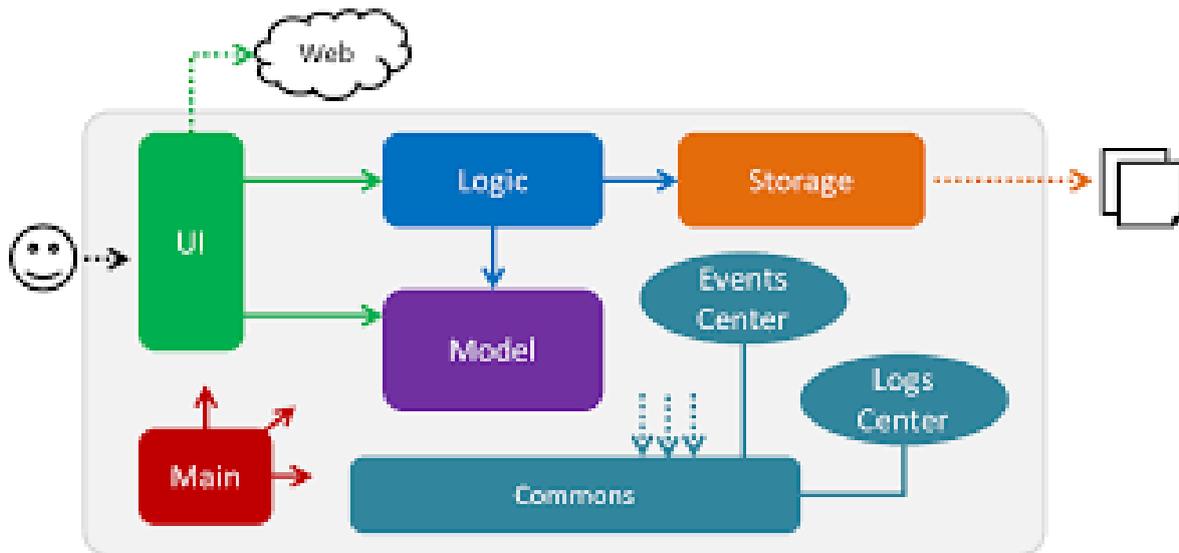


Fig 2: Solution Architecture

VI. RESULTS

The user can include this application in his? her daily routine by this he can be disciplined about his expenses and get better at saving, and utilise 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 also will also help in analysing the monthly expenditure.

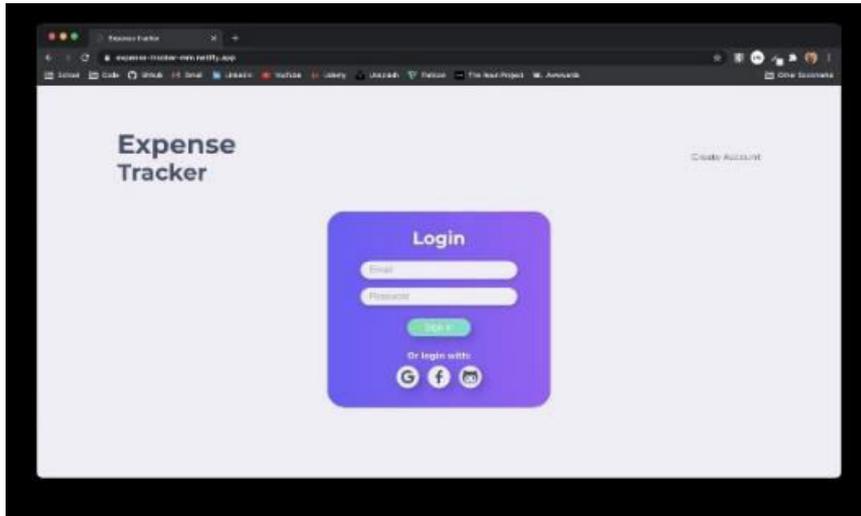


Fig 3: Screenshot of user login page.

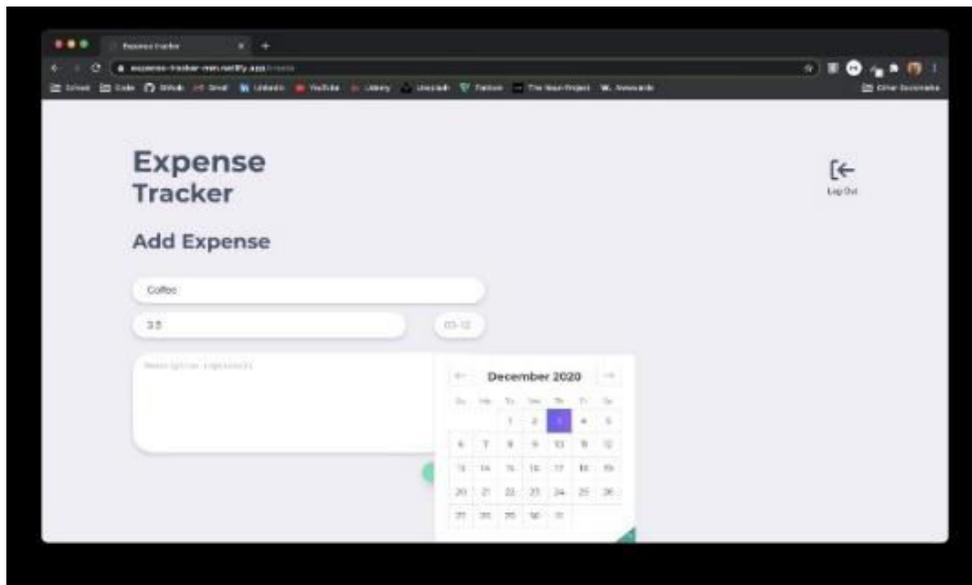


Fig 4: screenshot of user expenses.

VII. CONCLUSION

After developing this project's application, we guarantee that it will assist its user in budgeting their daily expenses. They will be guided by it, and it will inform them of their daily spending. It will be useful for those who are upset with managing their daily budgets, annoyed by the number of expenses, and who want to manage their finances and keep track of their daily costs in case they need to alter their spending habits. In essence, this programme will assist users in overcoming memory wastage.

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