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Expense Tracker

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Abstract –

The Expense tracker is an Android software made to assist users in keeping a digital journal of their daily expenses. The programme gives users the ability to keep track of their daily expenses and breaks down their spending by category. With the use of this programme, the user may keep track of their daily, weekly, and monthly spending. By providing users with a clear picture of their spending, the tool also aids in helping users stick to their budget. The programme creates a report at the end of each month that displays the costs in a graphical format. To help users better understand their spending patterns, the application also has a unique function that categorises the expenses. The programme also offers a user-accessible expense history that is available at any time. Users may simply control their costs and make wiser financial decisions with the aid of the expense tracker programme.

Keyword –

IDE, Expenses, Java, Xml, Firebase, OS, Analytics, SDK, Category, Filter Transaction, Generate, PDF, Statement, Income

Introduction –

Expense Tracker is an effective tool that makes it easy and efficient for people and organisations to keep track of their spending. Users can keep a digital journal of their daily costs with this Android-based software. This application divides expenses into categories, making it simple for users to monitor their spending habits. Users of this application may plan their budgets, manage their finances more skillfully, and save money. The user interface and navigation of the Expense Tracker application are both simple and intuitive. Users may quickly and simply add their spending because to the interface's straightforward design. Moreover, users can monitor their costs in a variety of forms, including daily, weekly, and monthly. At the conclusion of each month, the application generates reports that show the expenses graphically. The Expense Tracker application's ability to categorise expenses is one of its special features. Users can utilise this tool to find out where they are spending more money and then make the necessary modifications. Users of the

application can view their prior spending at any moment thanks to the application's provision of an expense history. All things considered, the Expense Tracker programme is a useful resource for people and businesses who wish to keep tabs on their spending and manage their money more skillfully. It offers consumers a quick and effective tool to keep track of their spending and make wiser financial decisions.

Problem Statement –

The difficulty of properly controlling spending is the problem statement that Expense Tracker attempts to solve. People in today's society have hectic schedules and frequently find it challenging to keep track of their everyday costs. They could misplace receipts or fail to record their purchases, which can cause confusion and excessive spending. Additionally, creating budgets and maintaining spending caps are common challenges for both individuals and corporations. Finding places where money is being wasted might be challenging without a systematic approach for tracking expenses. By giving customers a simple and effective way to track their costs, Expense Tracker seeks to solve these issues. Users of the application may quickly enter and classify their expenses, view their spending trends, and create reports that provide them a comprehensive picture of their financial situation. Users of this programme can more effectively monitor their spending and make wise financial decisions.

Literature Survey –

Expense Tracker Application -A robust and user-friendly Android software called Expense Tracker enables users to keep a digital journal of their daily expenditures. Users may better comprehend their spending because to the feature's category-wise distribution, which makes it simpler for them to stick to their budget. For a more thorough investigation of spending patterns, the application provides monthly reports with a graphical representation of expenses and categorises them. Moreover, Expense Tracker offers an expense history so customers may analyse previous expenses at any time. Overall, using this simple application will help you keep track of your spending, manage your money effectively, and make wise financial decisions.[1]

eExpense: A Smart Approach to Track Everyday Expense – An innovative Android app called eExpense simplifies the process of keeping track of spending. Users can scan their bills or receipts instead of utilising traditional methods like pen and paper, and the application will automatically extract the data needed for processing. By recording SMS messages from the user's savings accounts, eExpense also keeps tabs on their income. The tool gives customers a detailed picture of their financial situation on a monthly and annual basis by accounting for both income and expenses. Overall, eExpense is an intelligent and automated cost monitoring tool that makes the process simple and empowers users to make wise financial decisions.[2]

Expense Tracker –A helpful Android software that enables users to keep a digital log of their daily costs is called "Expense Tracker." They can keep track of their earnings and expenses, and it alerts them when they go over their daily spending cap. The programme allows users to save any extra cash and generates reports at the end of each month to aid in effective money management. The money can then be put towards celebratory events like holidays, birthdays, or anniversaries. In conclusion, the Expense Tracker is a useful tool for encouraging good money management and saving practises.[3]

An Android Based Mobile Application for Tracking Daily Expenses – An Android-based smartphone app that improves financial discipline by tracking and controlling personal expenses was created as part of the study. Diagrams were used to create the app, which was then developed using Java and MySQL. The application passed tests for functioning, upholding data integrity and consistency, and rejecting improper inputs. The software offers a portable, safe, and simple way to improve financial stability and foster economic growth.[4]

Expense Manager: An Expense Tracking Application–Users can effectively control monthly expenses and reduce spending by using the supplied sophisticated expense tracker. Users can build their own categories with matching limits and set a monthly cap. The software employs artificial intelligence to categorise receipts, show visual statistics of expenses, and alert users when their spending limit has been reached. By creating a smartphone application that analyses all purchases by scanning receipts, the software seeks to assist users in understanding their overall spending habits.[5]

Proposed Work –

In this project, the major task of this project is to create record of the daily transaction. In this project we use Agile methodology. Project management using the agile technique entails segmenting a project into stages, working continuously with stakeholders, and making improvements at each level. The teams collaborate with other teams and project stakeholders as they go through planning, doing, and evaluating cycles. The methodology emphasises how crucial it is to maintain close communication with stakeholders throughout the project in order to guarantee success. Teams frequently utilise the agile methodology for project management because it enables them to react fast to market changes or client input without upsetting long-term objectives. It requires little planning and ships frequently in tiny increments, enabling teams to get feedback on each change and inexpensively incorporate it into future plans. Teams become more flexible and sensitive to changes as a result of this method, which is crucial in a dynamic business environment. Expense Tracker is a mobile application that allows users to track their expenses. The application will have a two-tier architecture, with a database tier for storing financial data and a user interface for interacting with the system. The system is designed to operate offline, with different categories for users to select from and enter the amount and mode of payment. The system will analyze the information and provide analytics on which category the user spent most of their money. The user interface will allow users to store and observe their past expenses.

In this project first we collect need from the different users that exactly what they want. Then we start develop the project. First we develop the login and signup page. On this page user have to verify them self. After this user redirect on main activity that is dashboard page. Here user can see the various expenses done by them. Also they get the option to add, delete, update expenses on the same page. On the second page user can get the summary of their expenses in the form of pie chart. Also in this app user can add their investment, get notification about their payments, also set reminder. The user can get message when the expense limit got exceeds. In the transaction, the tab user has an option available for creating a report in PDF. Users click on the PDF button then PDF report will be generated to the user and also user could view that report and that report will be automatically saved in the device.

ACTIVITY DIAGRAM:-

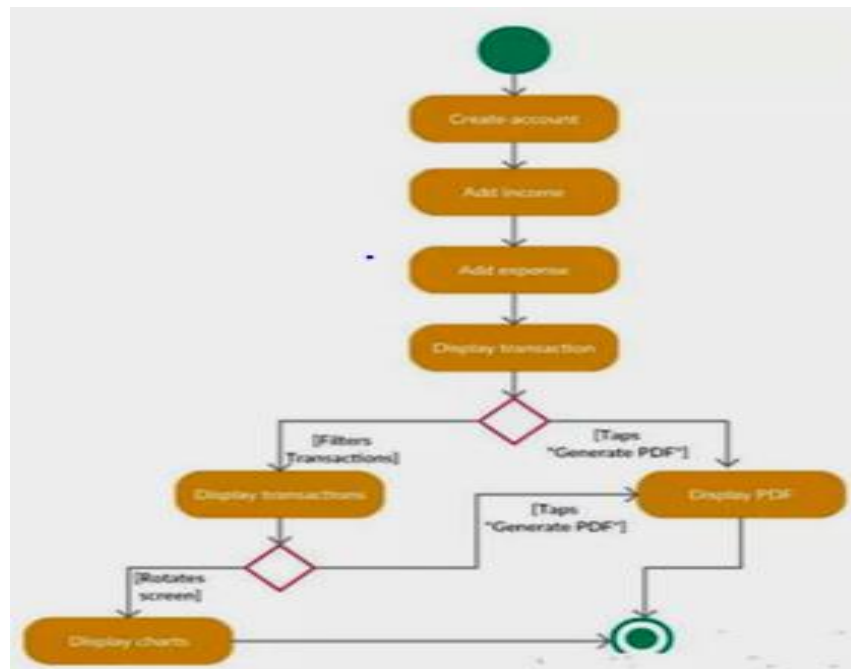


Fig 1.1 Activity Diagram

SEQUENCE DIAGRAM:-

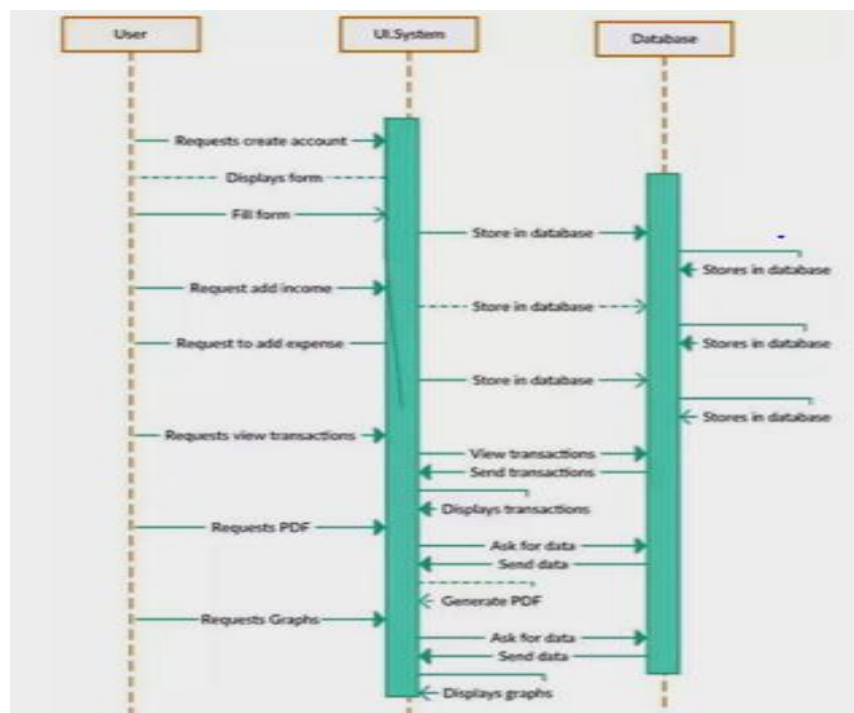


Fig 1.2 Sequence Diagram

Snapshots:-

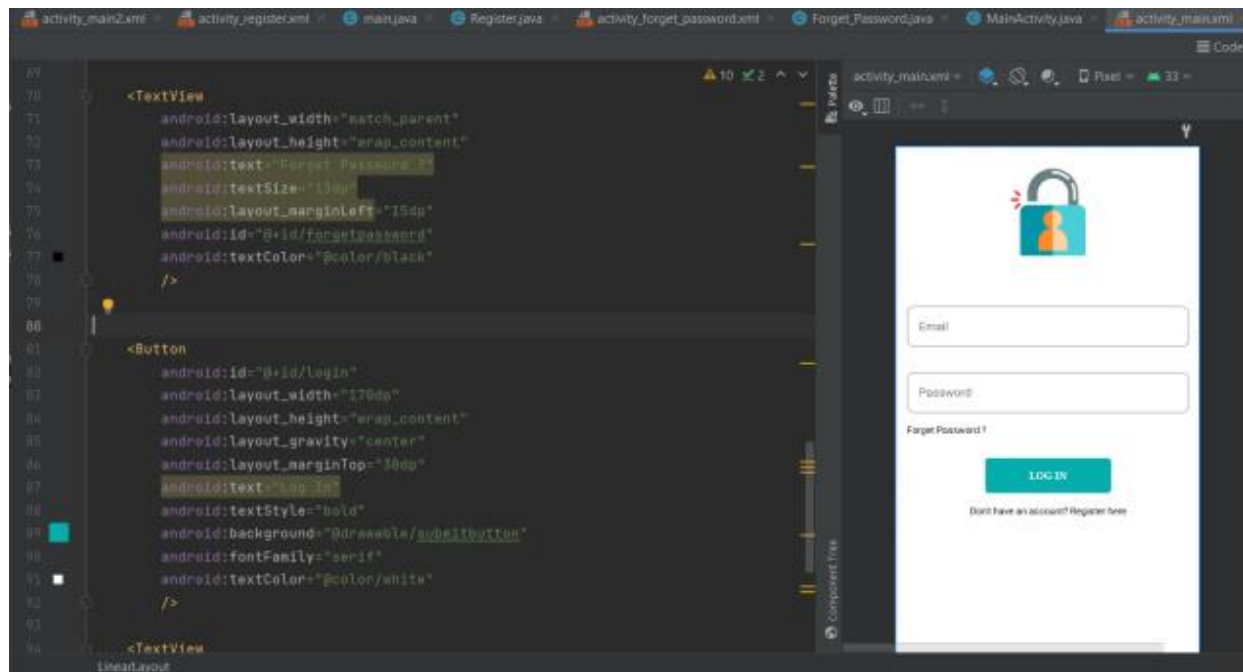


Fig 2.1 Login Page

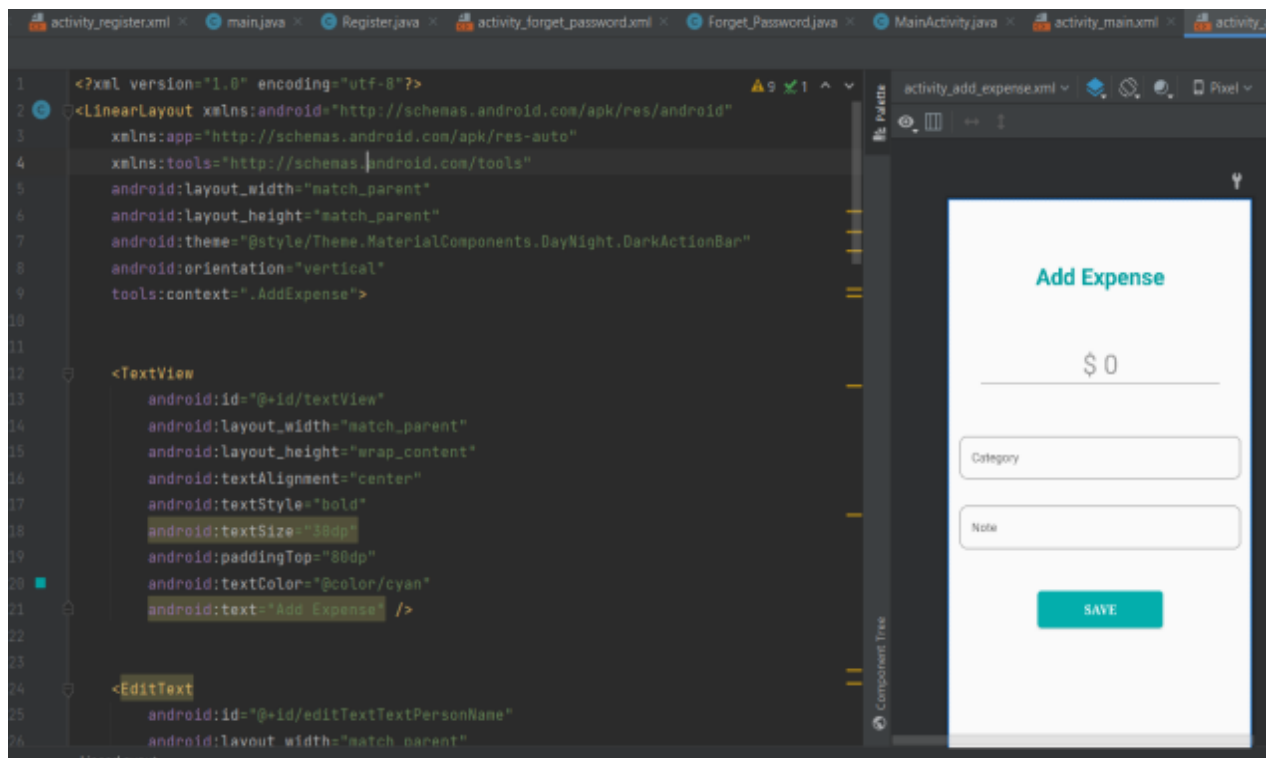


Fig 2.2 Add Expense

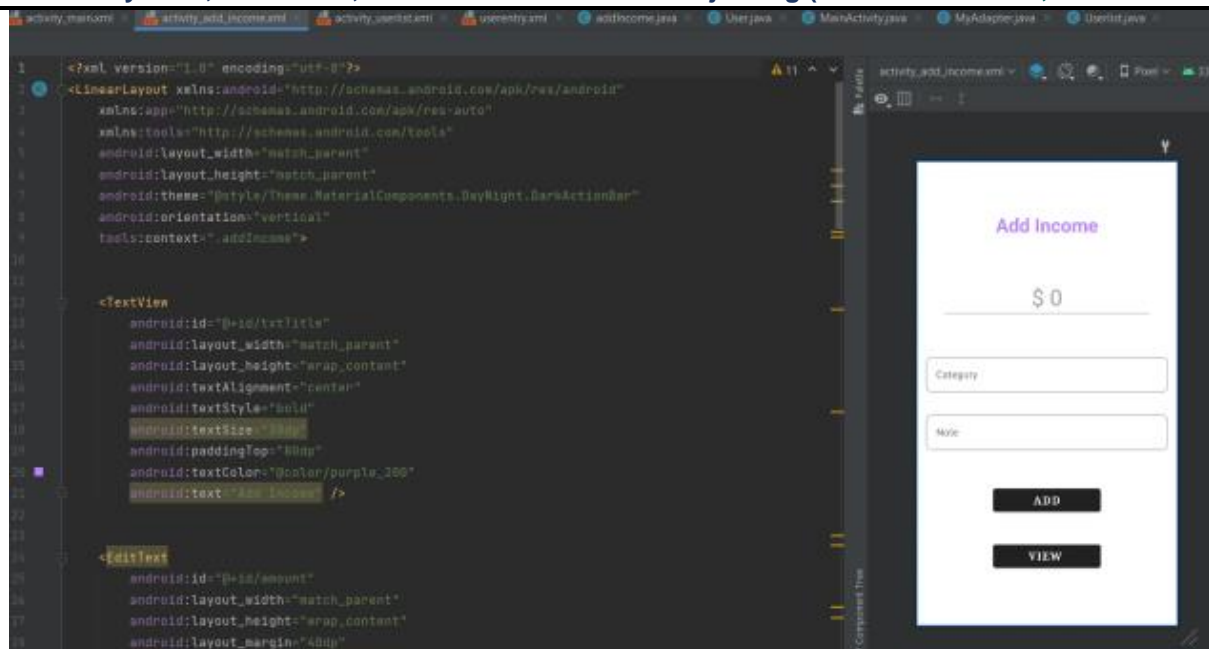


Fig 2.3 Add Income

Conclusion –

An effective tool for managing personal finances and encouraging saving behaviours is the spending tracker app. The software assists users in keeping track of their finances and preventing impulsive and unplanned spending by allowing them to log their income and expenses on a daily basis. If a user spends more than their daily spending cap, the app warns them, and if they spend less than their daily cap, the extra cash is added to their savings. The application creates a summary of the user's expenses at the end of each month, which may be used by users to examine their spending patterns and find areas where they can make savings. Overall, using the spending tracker app is a great approach to encourage financial responsibility and improve financial sustainability.

Future Scope –

As more people become aware of their spending patterns and look for effective solutions to manage their finances, the future potential of expense trackers is bright. The following are some prospective advancements for spending trackers:

1. Integration with smart devices: To enable seamless and automated tracking of spending, expense trackers may be combined with smart devices like smartwatches, fitness trackers, and home automation systems.
2. Improved analytics and reporting: With AI and machine learning, expense trackers may be able to offer customers more advanced analytics and reporting features, such as the ability to forecast future spending patterns and offer tailored financial guidance.
3. Connection with financial organisations: Expense trackers might connect to financial institutions to deliver more precise and recent information on a user's financial condition, such as account balances, transaction histories, and credit scores.
4. Integration with other apps: Expense trackers could be integrated with other apps, such as grocery shopping apps, to provide real-time information on spending and help users make better purchasing decisions.

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