# LITERATURE SURVEY

## [1] A Novel Expense Tracker using Statistical Analysis: (June 2021)

Muskaan Sharma , Ayush Bansal , Dr. Raju Ranjan , Shivam Seth:

Expense Tracker is used to maintain and managing data of daily expenditure in a more precise way it can give profound knowledge of their expenses. Users can choose the kind of spending they wanted to do, even the amount, etc. and all these details are going to be saved by the internal database storage. In this system, users can actually have knowledge about their expenditure on a daily basis, weekly as well as monthly basis. This systematic way of storing 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 has to be done to be able to give users correct information on their expenses and help them spend better. This helps society to prevent the issues like bankruptcy and save time from manual calculations. Users can provide his/her income to calculate the total expense per day and the results will be stored for each individual user. People who usually go on trips with friends can use this tracker to maintain their expenses.

## [2] Expense Tracker: (April 2021)

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

This Expense Tracker is a web application that facilitates the users to keep track and manage their personal as well as business expenses. This application helps the users to keep a digital diary. It will keep track of a user's income and expenses on a daily basis. The user will be able to add his/her expenditures instantly and can review them anywhere and anytime with the help of the internet. He/she can easily import transactions from his/her mobile wallet without risking his/her information and efficiently protecting his/her privacy. He can see the accurate duration for how long a particular product is being used by him. The monthly, and year-wise comparison of expenditures will be done by the app which will let the user know the area where he is spending the most. The user will be able to see detailed analyses with the help of graphical visualizations. This project will provide a lot of benefits to the users with the help of which they will be surely able to keep track of each penny. It is time to stop using paper and excel sheets to keep track of your digital as well as cash payments. Using paper is not easy to manage. It is common to delete files accidentally or misplace files. This expense tracker provides a complete digital solution to this problem. Excel sheets do very little to help in tracking expenses. Furthermore, they don't have the advanced functionality of preparing graphical visuals automatically. Not only it will save time for the people but also it will assure error-free calculations. The user just has to enter the income and expenditures and everything else will be performed by the system. Keywords: Expense Tracker, budget, planning, savings, graphical visualization of expenditure.

## [3] A Review on Budget Estimator Android Application: (April 2019)

Namita Jagtap, Priyanka Joshi, Aditya Kamble:

In existing, we need to maintain the excel sheets, CSV, etc. files for the user's daily and monthly expenses. In existing, there is no such complete solution to keep a track of its daily expenditure easily. to do so a person has to keep a log in a diary or on a computer, also all the calculations need to be done by the user which may sometimes result in errors leading to losses. This project is about a mobile application Expenses system with geo-location tracking, Based on the location of the user, it uses Google Places, to check, the available storage in the area and provides notification for offers purposes, In terms of security design, this system may implement a login authentication such as OTP message to your mobile device, this function may bring more security confidence to the user.

## [4] Expense Tracker: (May 2021)

Atiya Kazi , Praphulla S. Kherade , Raj S. Vilankar , Parag M. Sawant:

We are building an android application named "Expense Tracker". As the name suggests, this project is an android app that 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 of the user on a day-to-day basis. This application takes the income of a user and manages its daily expenses so that the user can save money. If you exceed the daily expense allowed amount it will give you a warning, so that you don't spend much and that specific day. If you spend less money than the daily expense allowed amount, the money left after spending is added to the user's savings. The application generates a report of the expenses at each end of the month. The amount saved can be used for celebrating festivals, Birthdays, or Anniversaries.

## [5] A Smart Approach to Track Everyday Expense: ( December 2020)

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

Expense Tracker is a day-to-day expense management system designed to easily and efficiently track the daily expenses of unpaid and unpaid staff through a computerized system that eliminates the need for manual paper tasks that systematically maintain records and easily accesses data stored by the user. We have tried to design the window application in such a way that the user does not have to bother using this application without much effort. End users with Windows running devices can use this software. The language databases we use to develop this system are Java (Apache Netbins 11.3) and MySQL Workbench 8.0 CE. This application is a GUI (Graphics User Interface) based application. If you are a window user, you can download the application and work accordingly. This system is used by any person to control his income-expenditure from daily to annual basics. And to keep an eye on their spending. This app is very easy to use and multi-language. The main feature of this app is that you can track by day and category. You can use it according to your category.

## [6] Expense Tracker Mobile Application: ( December 2012)

J. Carmelo Interlando, Kris Stewart, Joseph Lewis:

Modern life offers a plethora of options of services and goods for consumers. As a result, people's expenses have gone up dramatically, e.g., compared to a decade ago, and the cost of living has been increasing day by day. Thus it becomes essential to keep a check on expenses in order to live a good life with a proper budget set up. The iPhone device, designed and marketed by Apple Inc., is one of the top-selling smartphones in the USA, and with the launch

of the new iPhone5 on September 21, 2012, whose sales have already surpassed the previous iPhone handsets (iPhone 4S, iPhone4) sales, it is apparent that people have been using smartphones as an organizational tool. XpensTrak, the Expense Tracker Mobile Application was developed for iPhone users to keep track of their expenses and determine whether they are spending as per their set budget. Potential users need to input the required data such as the expense amount, merchant, category, and date when the expense was made. Optional data such as sub-categories and extra notes about the expense can be entered as well. The application allows users to track their expenses daily, weekly, monthly, and yearly in terms of summary, bar graphs, and pie-charts. This mobile application is a full detailed expense tracker tool that will not only help users keep a check on their expenses, but also cut down the unrequired expenses, and thus will help provide a responsible lifestyle. An analysis comparing existing expense tracking software with the one being introduced is provided.

## [7] AndroProf: A Profiling Tool for the Android Platform: (IEEE June 2014)
Anderson Luiz Sartor, Ulisses Brisolara Corrêa, Antônio Carlos Schneider Beck Filho:

Current tools for mobile development are very limited in which and how much information they can trace or profile. They are also scarce when compared to general-purpose development tools. This makes the development of embedded applications, with its hard constraints, such as limited performance and power budget, a hard task to be accomplished. Therefore, a tool that provides information such as energy consumption, execution time, and other statistics is mandatory when it comes to developing embedded applications. This paper presents a tool that provides the aforementioned information per application and that is able to trace both Dalvik Virtual Machine and native code. To accomplish this, we extended Android SDK's QEMU, and we developed graphical user interfaces to process the traced data.

## [8] Family Expense Manager Application in Android: ( October 2017)
M N Rajaprabha:

Family Expenses Manager is an android application. This monitors your own costs, family costs, and incidental costs. This resembles a present-day costs day book in your versatile. This application helps you to monitor your everyday costs, settlement points of interest, general rundown, report in detail, and periodic costs subtle elements. Every one of the information is put away in the database and can be recovered by the client and their relatives.

## [9] A Case Study of Tracking Expenses by Commodity at Widget Farmers Cooperative: (December 2011)

Dan Underwood:

Growing pressure from the competition, shrinking markets, and poor economic conditions are making many agribusinesses look for ways to maximize profits and remain healthy. Widget Farmers Coop (WFC) is a large retail agricultural supply cooperative with 12 locations in two states. It has had over 40 million dollars in annual sales each year since its creation in 2004. WFC management would like to track expenses and identify areas of the business that are profitable and capitalize on them, as well as identify areas that are not profitable and realign or eliminate them. Using Excel, the WFC regional accounting team designed Cost Allocation Tool 1 (CAT 1), a spreadsheet to allocate expenses based on product category both by site and as a whole for WFC. Cost Allocation Tool 2 (CAT 2) was then

developed to further integrate and allocate costs by manufacturer and to identify which manufacturers were profitable and which were not. The goal of both spreadsheets was to identify areas where expenses could be reduced or better managed. Both tools performed as expected; however, because of labor requirements for data entry and the number of assumptions made, the CAT 2 was not practical at the current time. CAT 1, on the other hand, was feasible. Management now has a tool to identify and manage expenses.

## [10] Daily Expense Tracker: (IEEE December 2021)

Shivam Mehra:

This paper represents a Daily Expense Tracker a tool that resides on a remote server and is accessible via browsers. As the name suggests Daily Expense Tracker is a web application that allows you to track the daily expense of the user and help them to better manage their resources. It creates a digital record of the income and expenses of the user. It inputs from the user an income, the source of this income, and the date of earning that income and creates a transaction entry under the income category sums to the total amount of income and makes real-time changes. The various sources of income can be added and thus the distribution of your income is also illustrated by real-time functioning charts that will keep updating as per your transactions. Similarly, it will also have an expense category where you can make similar transactions about the source of your expense, amount, and date. On creating such a transaction a different chart for the distribution of expenses will also be made in real-time. The web application will also be voice-powered and all the functionalities can be used with voice commands. The application will be accessible and compatible with all devices.