



# Application for Tracking Personal Expense

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**Abstract:** Expense tracker is an android based application. This application allows the user to maintain a online diary. Expense tracker application will keep a track of Expenses of a user on a day to-day basis. It keeps a record of your expenses and also will give you a category wise distribution of your expenses. With the help of this application user can track their daily/weekly/monthly expenses. This application will also have a feature which will help you stay on budget by sending alerts. This app will generate report at the end of month to show Expense via a graphical representation. We also have added a special feature which will distribute expenses in different categories suitable for the user. An expense history will also be provided in application.

**Keywords:** Track, Expense, Income, Report, Payment.

## I.INTRODUCTION

Budget Tracking involves recording and analysing the incomes and expenses of a person or an organization over a particular period of time. Today, since we are living in a hurry up and get it done society, many people are looking forward to efficient ways to budget their time and money. During the recent years, some research has been carried out on household budget. It has been noted that in most cases, budget management is being done mentally and never being put on paper which makes Budget Tracking very difficult. In this project we propose an application known as “Income and Expense Tracker” which is helpful to manage out income and expense as daily or whenever we want to remind. It also act as an reminder in the fastest world, we won’t able to remember what we have to buy and what are the payments we have to pay for the particular month. This application will help you to make note for it. This application helps to add income/expense through mobile to keep track of it. It has categories like food expenses billing expenses like phone, electricity, taxation and some other personal expenditures. We have used Optical Character Recognition (OCR) to extract the information from the bills or receipts. We can also edit the transactions if want. Also we can see the history and search the needed details. Report will be shown based on the users selection of category like date or month as graphical representation.

## II.LITERATURE REVIEW

Development Of An Application For Expense Accounting [1]: Its works as follows: a receipt is scanned by a phone camera, pre-processing image. Then the text on the image is recognized, the needed data is selected and saved to database. The application records statistics on expenses received from checks. In this study, the main tasks were implementing a correctly working text recognition algorithm, determining the required data and their distribution. Despite tasks complexity, they have been successfully resolved. Further, the preservation and further storage of this data was implemented.

Expense: A Smart Approach To Track Everyday Expense [2]: E-Expense is an application that runs on Android smartphones. By using this application, users can save their expense by simply scanning the bills or receipt copies. This application extracts the textual information from the receipts and saves the amount and description for further processing. It also monitors user’s income by tracking the received SMS’s from the user’s saving accounts. By calculating income and expense it produces the user’s balance in monthly and yearly basis. Overall, this is a smart automated solution for tracking expense.

## III.EXISTING SYSTEM

Existing system does not use the smart concepts which are used now a days. Here it doesn’t integrate with any UPI payments or net banking. Automatic scanning of cash bills and invoices is not available. The Expense manager existing system does not provide the user portable device management level, existing system only used on desktop software so unable to update anywhere expense done and unable to update the location of the expense details inconvenient that the proposed system provides. In existing, we need to maintain the Excel sheets, CSV files for the user daily, weekly and



monthly expenses. Also there is no 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 which may sometimes results in mistakes leading to losses., but this application will not have any reminder to remain a person in a specific date. The report generated for analysis is also not accurate and advanced.

#### IV.PROPOSED SYSTEM

This new Online Income and Expense Tracker will eliminate all the demerits which are found under the existing system. To reduce manual calculations, we propose an application which is developed as an android mobile application. Expense Tracker project which will keep a track of Income-Expense of a user on a day to day basis. After logging into the system, a user can add the bills with an option to attach the image of the bill or not using the OCR recognition. This project takes Income from user and divides in daily expense allowed. If you exceed that day's expense it will cut if from your income and give new daily expense amount, and if that day's expense is less it will add in savings. It will give alerts if income exceeds. In income tracker some of the features like add income, add category, categories, export income, remove export files, and view expenses. Expense tracker will generate report at the end of month to show Income-Expense via multiple graphs. It will let you add the savings amount which you had saved for some particular.

#### V.METHODOLOGY

We have used Android studio IDE as software to develop the application using the agile methodology. For front end Java is used and for backend and database connection SQLite has been used.

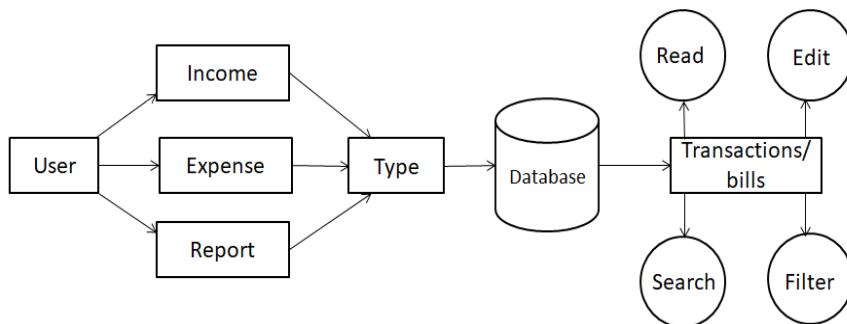


Fig.1 System Design

#### Modules:

##### A. User Registration and Login

This application like the vast majority of the applications will have user login screen and alternatives for enlistment. The user should enlist in this application when the person in question is utilizing for first time. Nonetheless, the client who is now enlisted can login to the application utilizing their login accreditations that are made by the user at the hour of enrolment.

##### B. Adding Income and Expenses

This application will provide to choose the categories or type of income or expenses. Every user of the application has to the options to add incomes and expenses accordingly. Each record should have details date of occurrence of item, details of items etc.

##### C. Dash board

It has the control to move between different user interfaces by the user to toggle and use the application. It has account information, settings, income tab etc.

##### D. Filter/Search Transaction

In the transaction tab, the user can filter the transaction. In the tab, users could select the day, month and year then click the filter button and according to the day and month, year transactions will be appeared. If the user wants to filter the transactions only on the basis of a day.

##### E. View Report

The user has pie chart option available for graphical representation. If the user clicks the view analytics it will redirect to the statistics. When the user rotates the phone statistics will initiated and it shows the graphical representation in the form of pie chart. Pie chart it could contains a colored and percentage view.

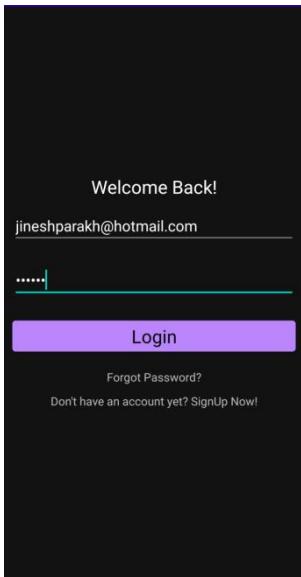


Fig.2 Login module

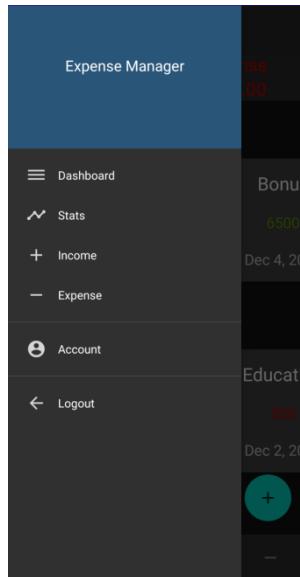


Fig.3 Dashboard

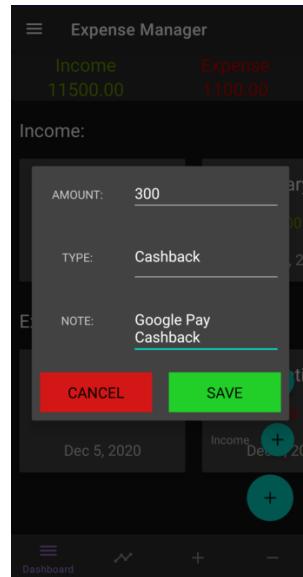


Fig.4 Add income/expense

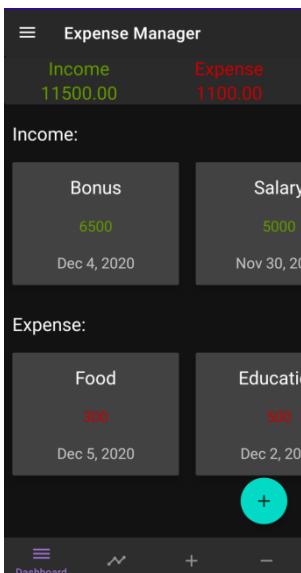


Fig.5 Home page

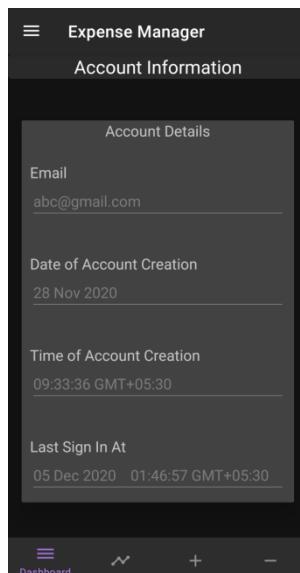


Fig.6 Account details



Fig.7 Report

## VI.CONCLUSION

We have presented a working prototype of an online budget tracker. The development of this application has been conducted in a stepwise manner using the well defined methodology, customized according to the requirements of the system. Monitoring your everyday expenses can set aside your cash, yet it can help you set your monetary objectives for what's to come. Expense Tracker project is for keeping our day-to-day expenditures will helps us to keep record of our money daily. The project effectively keeps away from the manual figuring for trying not to ascertain the pay and cost each month. It's a user-friendly application. Most of the goals set at the beginning of the development phase have been met. We assure that this application will help its users to keep track of their daily expenditure and overcome the wastage of money.

**Future Enhancements:** To upgrade the mobile app by having mails, message and pay mode embedded with the app. Also backup details will be stored on cloud. Apart from keeping a personal log, we are planning to extend this system to incorporate a shared expense group. The application can be allowed to support in all the android versions. Better algorithm for statistics and analysis will be used to generate report.

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