

Simple Expense Tracker

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Abstract: Expense Tracker is a web application that allows you to track the daily expense of the user and help them to better manage their incomes. It generates a digital record of the income and expense of the user. It input from the user an income, source of this income and the date of earning that income and creates a transaction entry under income category sums to the entire expense of income and making real time changes. The many sources of income can be added and thus the distribution of your income is also demonstrated by real time working charts that will keep updating as per your transactions. On generating such transaction, a unlike chart for distribution of expense will also be made in real time. Designed components are used to style the web application and make it responsive for all the devices. Eventually the best possible use of stack of technology is done to make sure that the user experience is supreme and unique. Tracking your expenses daily can save your amount, but it can also help you set and work for economic goals for the upcoming. If you know exactly where your amount is going every month, you can easily see where some reductions and compromises can be made and are possible. It successfully avoids the manual calculation for avoiding calculating the income and expense per month and save time of user. The modules are developed with effective, consistent and also in an attractive manner.

I. INTRODUCTION

In this project we propose a web application known as "Simple Expense Tracker" which is supportive to achieve out income and expense as a day-to-day or occasionally or else whenever we want to remind. It also turns as an indicator or notice example in the fastest world which we can't able to remember what are the things we have to do for the end of calendar month and what are the expenditures we have to pay for the specific month. Due to some conflict or some other pressure, we disremember some times that what are the income or where the money has to come from or what the expenses we have to pay. This application will help you to make a note for what or the things we have to do for the end of month. For instance, like how much it costs for monthly and what are the expenses for a month. Some of the expense features like food expenditures billing expenses like phone, current, taxation and some other personal expenses.

In this world of evolving technologies, almost everything is digitized. With a huge number of money transactions, it is difficult for the user to keep track of all your transaction. The

"SIMPLE EXPENSE TRACKER" characters all the expenses and helps the user to keep an eye on his/her expenditures so that the user is on a economically stable path. For using this application, the user has to sign up using the details like name, username, password, and confirm a password of the user. The user gets registered just a single time, per user can get just one record. The entire minuteness of the income or expense can be seen, updated, or can be deleted as per the convenience. The quality of this application is that it is depict for better finance management planning so that they can manage and keep track of, analysis and optimize their budget or spending. Not many applications provide a variety of features within one application. We develop an android application that keeps a record of student personal expenses like shopping, travel, food, etc.

II. LITERATURE REVIEW

In day-to-day expenses over and over we don't know where the money goes. a number of the traditional methods accustomed tackle this problem in normal circumstances is like making use of a sticky notes by common users, Proficient people deals with this type of difficulties by using worksheets to record expense and retaining a ledger to maintains the big amounts data by especially by expert people. As this shows that its various are often missed and therefore the manual errors may sneak in. The info recorders aren't always handled, and it might be frantic procedure to possess overall view of these expenses. We trust a unique and a less complex mobile application which handles these troubles easily. specified app is capable of recording the expenditure and giving broad view with easy to use the programmer and this application is intelligent enough to shows the history of expenses noted within the app.

A. User Registration and Creation: 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 using 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 types of income or expenses. Each user of the application has to the options to add incomes and expenses accordingly. Each record should have particulars date of occurrence of item, details of items etc.

III. PROBLEM STATEMENT

Expense Tracker is a simple, constant, and feature-rich web application that helps you accomplish your daily bills in this Python project. We will build a simple expense tracker to track. It is one of the curving Python's developments, which also performs statistical analysis to provide precise insights to users on their expenses. It supports them to plan their expenses better. The user's expenses. At month end, we start to have money crisis. Lack of proper planning of our income. Person has to keep a log in a journal or in a computer. All the calculations need to be finished by the user. Overwork to depend on on the daily entry of the expenditure. Every earning people are mostly obsessed at the end of the month as the they cannot remember where all of their money has gone when they have spent and eventually have to tolerate in little money minimizing their essential needs. There is no as such broad solution present easily or we should say free of cost which enables a person to keep a track of its daily spending easily and notify them if they are going to have money deficiency. To do so a individual has to keep a log in a record or in a computer, also all the calculations need to be completed by the user which may sometimes results in errors leading to losses. Due to absence of a whole tracking system, there is a continuous overload to rely on the daily entry of the expenses and overall estimation till the end of the month.

IV. METHODOLOGY

A few methodologies have been taken into consideration such as Data Flow Diagram (DFD). It is a graphical representation of how data flows within a system, illustrating the processes, data stores, data inputs, and data outputs involved. DFDs are widely used in software engineering and systems analysis to model and understand the flow of data in a system or process.

1. **Process:** Represented by a circle or rectangle, a process in a DFD represents a function or activity that transforms data. It can be a calculation, manipulation, or any other operation performed on the data.
2. **Data Flow:** Represented by an arrow, a data flow represents the movement of data from one process to another, or between a process and a data store. It shows the direction of data movement and the data items being transferred.
3. **Data Store:** Represented by a rectangle with parallel lines, a data store represents a repository or storage location where data is persisted. It can be a file, database, or any other means of storing data for later retrieval or reference.
4. **External Entity:** Represented by a rectangle, an external entity represents an external system, user, or entity that interacts with the system being modeled. It signifies the sources of data entering or leaving the system.

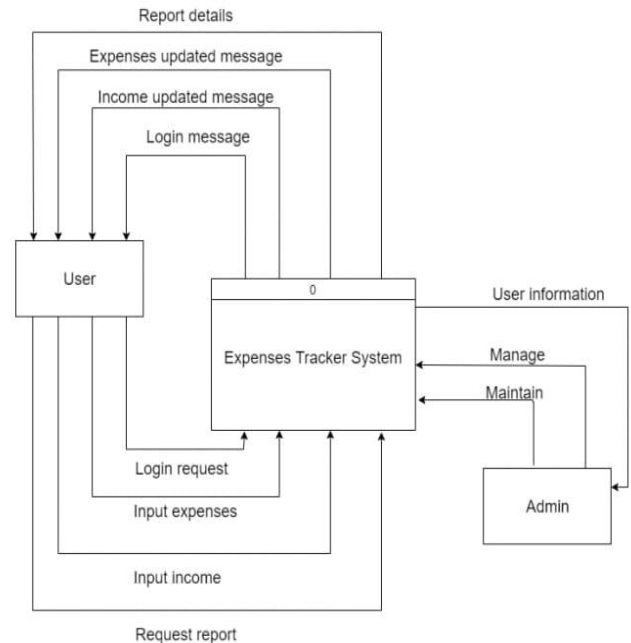


Fig 4.1 Architecture of expense tracker

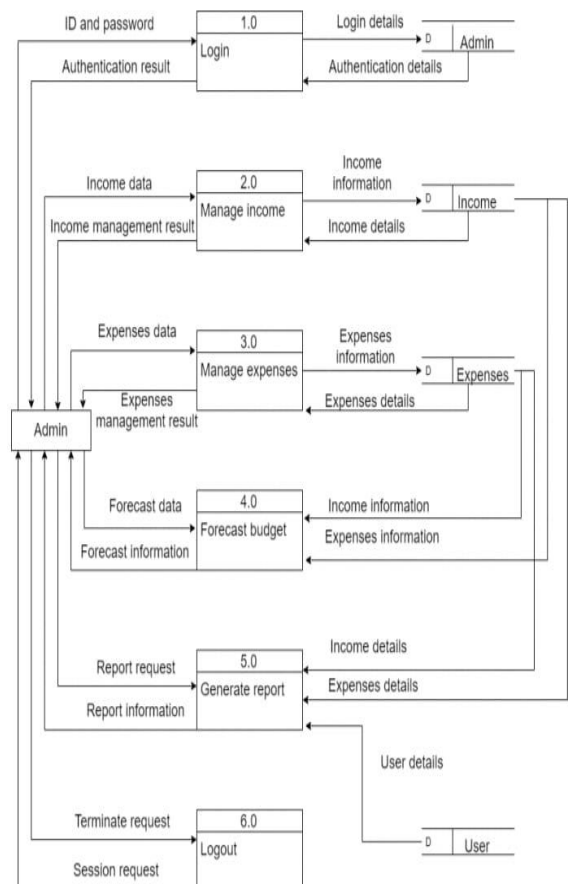


Fig 4.2 DFD for Admin

Based on Figure 4.1 above, there are six processes involve in Admin module. Admin can login to the system as a primary step to get into the system. After login, process that involve admin is Manage Income, Manage Expenses, Estimate Budget and Create Report from the system. At the end on the process, admin can logout from the system.

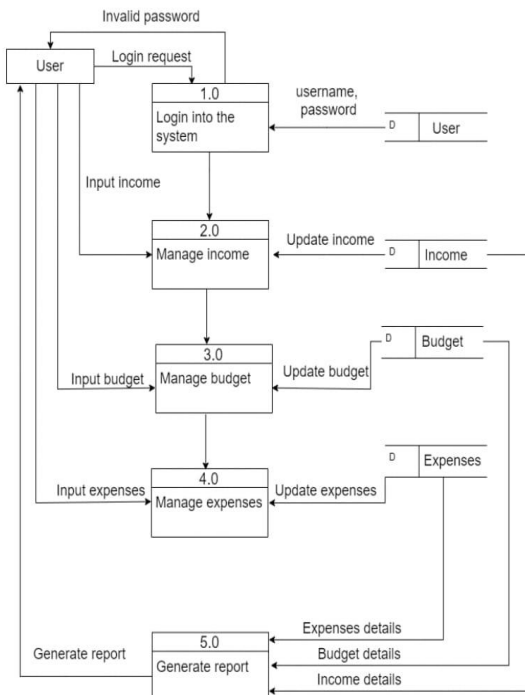


Fig 4.2 DFD for User

Figure 4.2 above shows that there are four processes involve in User module. User can be login to the system as a first step to get into the system. Then, other processes carried in this module are Manage Income, Manage Expenses and Generate Report from the system.

V. EXPERIMENTAL RESULTS

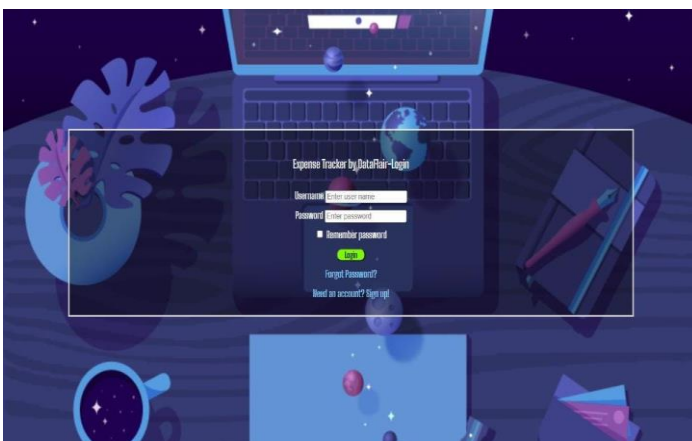


Fig 5.1 Login Page

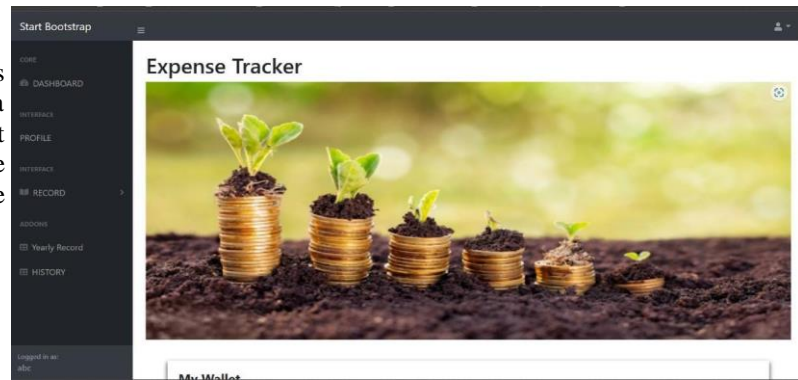


Fig 5.2 Dashboard

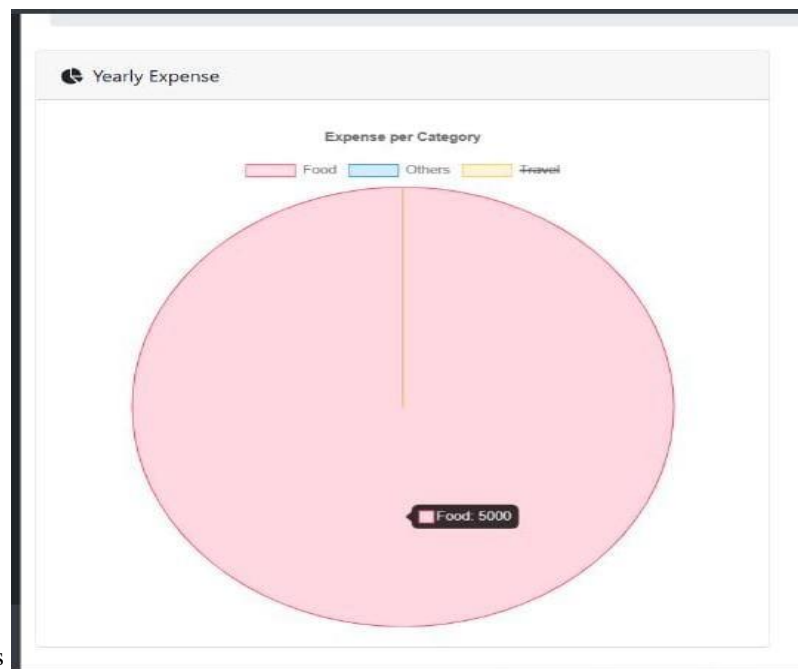


Fig 5.3 Pie chart Showing Expenses

VI. CONCLUSION

Monitoring your everyday expenses can set aside you money, yet it can similarly help you set your financial objectives for what's to come. On the off chance that you know precisely where your sum is going much of a stretch see where a few reductions and bargains can be made. Simple Expense Tracker project is for keeping our day-to-day expenditures will helps us to keep record of our money daily. The project what we have created is work more proficient than the other income and simple expense tracker. 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.

VII. FUTURE ENHANCEMENT

In further days, there will be mails and pay mode fixed with the application. Likewise, backup details will be recorded on cloud. This application can take a good market as it is usable by anyone who are eager to manage their expenditures and directing to save for the future investments and many more. There are not any range conditions or any kind of profession or gender are focused, it will used hugely.

VIII. REFERENCES

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