Peer Reviewed Journal

e-ISSN No. 2394-8426

Special Issue On

Advancements and Innovations in Computer Application: Pioneering Research for the Future

Issue-I(VIII), Volume-XII

https://doi.org/10.69758/GIMRJ2406I8V12P089

Expense Tracker Report Using Python

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Revised on: 18 June, 2024 Published on: 29 June, 2024 Received on: 11 May, 2024

Abstract:

As the name itself suggest, this project is an attempt to manage our daily expenses in a more efficient and manageable way. Sometime we can't remember where our money goes. And we can't handle our cash flow. For this problem, we need a solution that everyone can manage their expenses. So we decided to find an easier way to get a rid of this problem. So, our application attempts to fee the user this as much as possible the burden of manual calculation and to keep the track of the expenditure. Instead of keeping a diary or a log of the expenses, this application enables the user to not just keep the control on the expenses but also, to generate and save reports. With the help of this application, the user can manage their expenses on a daily, weekly and monthly basis. User can insert and delete transaction as well as and save their reports.

Keywords-

Expenses, Tracker, Budget, Financial management, Spending, Record-keeping, Accounting, Money management, Personal finance, Income tracking Saving, Expense categories, Transaction history, Financial planning, Cash flow management

1. INTRODUCTION:

Daily Expense Tracker System is designed to keep a track of Income-Expense of an organization on a dayto-day basis. This System divides the Income based on daily expenses. If exceed day's expense, system will calculate income and will provide new daily expense allowed amount. Daily expense tracking System will generate report at the end of month show Income-Expense graph. And employees send reports to the manager for verification. Manager send final reports to administrator .Based on the final reports system predict the next month expense. It will helps to manage over all expense and income. Businesses utilize expense management software to process, pay, and audit employee initiated expenses. The software includes capabilities for employees to input expenses for approval through a forms. Expense management software simplifies and automates a business' expense entry, eliminates paper trail, and reduces administrative effort. Expense management software allows administrators to have full visibility of and track employee use of business financial resources. Expense management software analyses overall expenses, identifies cost-saving opportunities, and controls excessive spending. "Expense Tracker" is developed to manage the daily expenses in a more efficient and manageable way. By using this application. we can reduce the manual calculations of the daily expenses and keep track of the expenditure. In this application, user can provide his income to calculate his total expenses per day and these results will be stored for each user. The application has the provision to predict the income and expense for the manager using data mining. Budgeting systematically and Expense Tracking takes a crucial role in managing the expenses of business organization

2. RELATED WORK:

The Proposed solution includes the problem statement on which the solution has to be worked, the idea description obtained from ideation phase, the novelty and uniqueness of the proposed solution, social Gurukul International Multidisciplinary Research Journal (GIMRJ)with International Impact Factor 8.249 Peer Reviewed Journal

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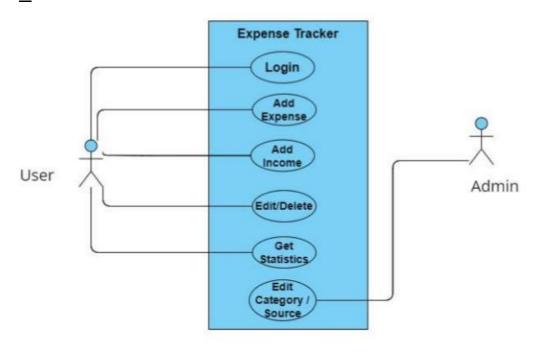
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impact or customer satisfaction based on proposed solution, the business model also known as revenue model and the scalability of the solution are discussed. All the expense manager and budgeting applications that are available requires user to enter their expenditure date on daily basis and total estimations are generated at the end of the month. This process is time consuming and complex. Personal Expense Tracker is a software application which could track your income or savings and expenditure. A user with zero money management skills could also be beneficiary from this application. Money transferred from user's account and received by user's account is tracked and recorded instead of depending on receipt papers. This application keeps track of the money the user is spending. For better construction of financial plan, the application provides an analysis on expenditure in graphical form of representation to the user. The user is also notified in case of exceeding the expense limit. This application tracks your money inflow and outflow, organizes and sets it easy for the user to access. It also provides excellent money management tips and guidelines. On basis on Scalability IBM Cloud allocates storage for users.

3. METHODOLOGY

Expense Tracker will be a mobile application that can be used at any time.: the first is the database layer, which will hold all of the data and financial information. Second, the programme will be supported by the user interface. The suggested system should allow users to communicate with the system as well as save information. Users should be able to choose from a variety of categories and enter the amount and mode of payment. This system should be capable of analysing data. provide information on the categories the user spent the most money in. The suggested system should have a user interface that allows users to save and track their previous expenses. Track money is an android application which is developed with a concept in mind to help users to easily manage all their income and expenses and keep track of all credits and debits of transaction according to different categories, also users can have a pictorial representation of all the transactions of different categories and can also download excel reports of transaction

4. PROJECT DESIGN



5. MODELING AND ANALYSIS

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email address and password.

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- 1) Login: The login screen is used to verify the identity of the user. It's used to keep unauthorised users from accessing the programme. The account can be accessed using the user's
- 2) Registration Screen: The registration page is; a new user must first complete the application's registration process. Certain details must be submitted by the user to complete the registration procedure. These are the following information: e-mail address, password, and password confirmation. The user is identified using these details.
- 3) Home Screen: On the main page, we can see overall revenue and spending, as well as the balance remaining after expenditure, as well as the user's entire list of transactions and categories.
- 4) Add Transaction: User adds and notes transactions by clicking on the floating action button and fills in the details of the transaction.
- 5) Transaction Receipt: A user can examine the specifics of a transaction by clicking on it, and they can also share the receipt with friends and family as evidence of transaction or to keep track of a specific transaction.
- 6) Statistics: We may see a pictorial depiction of all transactions in the form of a pie chart, where each slice of the pie chart symbolizes distinct categories of transactions, allowing the viewer to gain an approximate notion of which category has the highest expenses.
- 7) Transactions Screen: Users can swipe to view and delete transactions that are divided into three categories: All Transactions, Credited Transactions, and Debited Transactions.
- 8) More Screen: In More There are four options on the screen. Change your currency. csv file export, Set an expenditure alert and logout.
- 9) Change Currency: Track money is not only limited to a single currency; it also allows users from all over the world to track money in their own native currencies. As a result, the app's target audience is not limited to a single country; anyone from anywhere can download it and track their expenses for better financial management.

6. RESULT ANALYSIS:

Fig No: 1 (Sign Up Page)



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Special Issue On Advancements and Innovations in Computer Application: Pioneering Research for the Future Issue–I(VIII), Volume–XII

https://doi.org/10.69758/GIMRJ240618V12P089



Fig No: 2 (Login Page)

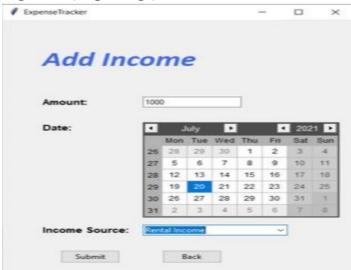


Fig No:3(Add Income)

Fig No: 4 (Add Income)



Fig No:4(Welcome Page)

e-ISSN No. 2394-8426

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8. CONCLUSION:

Expense Tracker was developed in several stages. The method utilised is a top-down approach, with the focus on what comes first, followed by how, and then on to subsequent levels of detail. Many issues were uncovered during the course of this research that have hampered the effectiveness of the old manual approach. These issues, information requirements, and actions were documented and used as the foundation for system design, which came after the first phase. The design phase was largely focused with defining the system elements in a way that best matched the organization's business requirements. During this phase, recognised software engineering principles and practises were strictly followed. It is envisaged that a successful implementation of this software product will eliminate many of the issues encountered during system development. In this project, we create a mobile application that keeps track of the user's personal expenses, as well as his or her own contribution to group expenses, on a monthly basis. "Who owes who and how much they owe," it says. Sticky notes, spreadsheets, and ledgers will no longer be used, which can lead to data inaccuracies and confusion when documenting and splitting expenses. Our application enables the user to better manage his expenses. As part of our research, we looked into adding numerous features to the programme to make it more user-friendly.

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