

EXPENSE TRACKER

**Nidhi Jitendra Jadhav*¹, Rutuja Vijay Chakor*², Trupti Mahesh Gunjal*³,
Damayanti. D. Pawar*⁴**

*^{1,2,3}Student, Department Of Information Technology, K.K. Wagh Polytechnic,
Nashik, Maharashtra, India.

*⁴Professor, Department Of Information Technology, K.K. Wagh Polytechnic, Nashik,
Maharashtra, India.

ABSTRACT

In today's frantic and expensive society, we are in a great hurry to make money. We did, however, split ways at the conclusion of the month. We are unknowingly squandering money on insignificant and unwanted products. As a result, we've devised a system for keeping track of our earnings. Expense Tracker is a tool that can assist anyone in keeping track of their expenses and reducing their spending. Expense Tracker is a mobile application that users may download to their phones and use to track and update their daily costs so they are always aware of how much they are spending. The user can establish their own spending categories, such as food, clothing, rent, and bills, and then enter the amount spent as well as any notes. Include more information in the Additional information area to specify the expense. A pie chart of costs will be available to the user. Every Day Expense Tracker System is a software programme that keeps track of a user's daily income and expenses. The daily costs are divided using this technique. Overall, this is a smart automated solution for tracking expense.

Keywords: Mobile Application, Money, Spending Categories, Daily Income And Expenses, Pie Chart.

I. INTRODUCTION

People are embracing mobile applications to get their work done, which makes their life easier, thanks to the launch and increase in sales of smartphones over the previous few years. Entertainment, Sports, Lifestyle, Education, Games, Food and Drink, Health and Fitness, Finance, and more categories are represented by mobile applications. This Expense Tracker application belongs to the Finance category and is used to manage funds, which is a vital aspect of one's life. As part of the Software Development Lifecycle, the software product underwent design, development, and testing. The application does not require a large number of users and only requires them to enter the expense amount, date, category, merchant, and other optional parameters (taking pictures of the receipts, entering notes about the expense, adding). With this information, the user can see daily, weekly, monthly, and yearly spending details in figures and graphs. This thesis intends to provide an Android user with a solution for managing finances in any situation by keeping track of their expenses every day. In the end, this improves societal well-being. The Daily Expense Tracker System is meant to keep track of a user's income and expenses on a daily basis. The income is divided according to daily costs in this system. If you go over your daily expense limit, the system will deduct it from your earnings and provide you a new daily expense allowance. If the expense for that day is less, the system will save it. At the end of the month, the daily spending tracking system will provide a report that shows the income-expenditure curve. It will allow you to enter the amount of money you have set aside for special occasions such as birthdays or anniversaries. Daily Expense Tracker System is a system that keeps track of a user's income and expenses on a day-to-day basis. This system takes the user's income and divides it into daily expense allowances. If you exceed that day's expense, it will be deducted from your income and replaced with a new daily expense allowance. If the amount is smaller, it will be saved. At the end of the month, the daily spending tracking system will provide a report that shows the income-expenditure curve. It will allow you to enter the amount of money you have set aside for special occasions such as birthdays or anniversaries.

II. 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. App also receives customised tips in the form of push notifications which helps users to manage expenses.

A. Modules—

III. MODELING AND ANALYSIS

- 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 email address and password.
- 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.
- 10) Push Notifications: Push notifications are a feature in the app that allows the admin or developer to deliver a customized tip or alert to all app users across the world.
- 11) Export CSV file: The user can also download an excel file in.csv format that contains all of the data from transactions conducted by the user, and from which he can retrieve all of the past data from all types of transactions, as well as dates and notes.
- 12) Set Alert: Users can set an alert on a threshold amount above which the app will automatically send an alert if the user attempts to spend more than his or her pre-set amount limit.

IV. RESULTS AND DISCUSSION

A pictorial depiction of all transactions in the form of a pie chart.

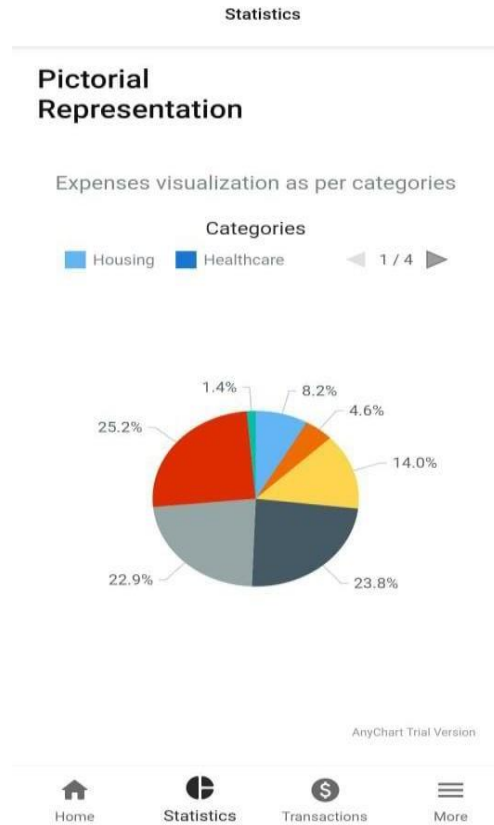


Figure 1: Pictorial Representation

An excel file in.csv format that contains all of the data from transactions.

1	A	B	C	D	E	F	G	H	I	J	K	L
2	TITLE		AMOUNT		TRANSACTION TYPE		CATEGORY		DATE		NOTE	
3	Travel pass		100		Expense		Travel		20.04.22		Travel pass	
4	Drinks		40		Expense		Food		19.04.22		Sprite	
5	Pocket money		5000		Income		Profit		18.04.22		Pocket money by dad	
6	Zomato		850		Expense		Food		17.04.22		Dominos Pizza	
7	Petrol		100		Expense		Travel		16.04.22		Petrol hp pump nashik	
8	SSD		3500		Expense		Utilities		16.04.22		SSD	
9	Grocery		300		Expense		Housing		15.04.22		vegetables	
10	Pocket money		2500		Income		Profit		15.04.22		Pocket money gain by mom	
11	KOP movie ticket		300		Expense		Utilities		14.04.22		Movies with friends	
12	Petrol		100		Expense		Travel		13.04.22		Nashik Hp petrol pump	
13	Paracetamol		10		Expense		Healthcare		12.04.22		Headache	
14	Cafe		450		Expense		Food		11.04.22		Dad birthday Cafe	
15	Transport Pass		100		Expense		Travel		10.04.22		College travel pass	
16	Starbucks		1531		Expense		Food		9.04.22		Latte	
17	Pani Puri		50		Expense		Food		7.04.22		sinnor	
18	pass		100		Expense		Travel		8.04.22		daily pass	
19	pass		100		Expense		Travel		7.04.22		daily pass	
20	ring		80		Expense		Utilities		7.04.22		engagement	
21	dress		1500		Expense		Housing		7.04.22		engagement	
22	pass		100		Expense		Travel		6.04.22		daily pass	
23	extra money		300		Income		Reward		5.04.22		monthly	
24	water bottle		10		Expense		Food		5.04.22		near me	
25	pass		100		Expense		Travel		5.04.22		daily pass	
26	chocolate		20		Expense		Food		3.04.22		near my home	
27	pd		1300		Expense		Utilities		2.04.22		Amazon	
28	pass		100		Expense		Travel		2.04.22		daily pass	
29	movie		100		Expense		Food		1.04.22		Headache	
30	pass		100		Expense		Travel		1.04.22		daily pass	
31	pocket money		5000		Income		Debit		1.04.22		pocket money 5**	
32												
33												

Figure 2: Exported CSV file

V. 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.

ACKNOWLEDGEMENTS

The undertaking was done under the direction of Mrs. D. D. Pawar. This project helped in understanding the various parameters which are involved in the development of an android application and the working and integration of front end along with the back end to create fully functional android application. We would like to thank Ms. M. S. Karande (Head of Department- Information Technology Department) and whole of department for their constant support.

VI. REFERENCES

- [1] "DailyExpense3-AppsonGooglePlay." [Online].
- [2] Available: <https://play.google.com/store/apps/details?id=mic.app.gastosdiarios>. [Accessed: 17-Mar-2018].
- [3] Ganesh Kumar and P.Vasanth Sena, "Novel Artificial Neural Networks and Logistic Approach for Detecting Credit Card Deceit," International Journal of Computer Science and Network Security, Vol. 15, issue 9, Sep. 2015, pp. 222-234
- [4] Gyusoo Kim and Seulgi Lee, "2014 Payment Research", Bank of Korea, Vol. 2015, No. 1, Jan. 2015.
- [5] Chengwei Liu, Yixiang Chan, Syed Hasnain Alam Kazmi, Hao Fu, "Financial Fraud Detection Model: Based on Random Forest," International Journal of Economics and Finance, Vol. 7, Issue. 7, pp. 178-188, 2015.
- [6] Hitesh D. Bambhava, Prof. Jayeshkumar Pitroda, Prof. Jaydev J. Bhavsar (2013), "A Comparative Study on Bamboo Scaffolding and Metal Scaffolding in Construction Industry Using Statistical Methods", International Journal of Engineering Trends and Technology (IJETT) – Volume 4, Issue 6, June 2013, Pg.2330-2337.
- [7] P. Ganesh Prabhu, D. Ambika, "Study on Behaviour of Workers in Construction Industry to Improve Production Efficiency", International Journal of Civil, Structural, Environmental and Infrastructure Engineering Research and Development (IJCSEIERD), Vol. 3, Issue 1, Mar 2013, 59-66.