

# STUDENT EXPENSE TRACKING APPLICATION

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## ABSTRACT

*This project is based on expense and income tracking system. This project aims to create an easier, faster and smooth tracking system between the money spend and the money earned. We are making an android application which is named as "STUDENT EXPENSE TRACKING APPLICATION". This is an android application which is used to track the daily expense of a student. So, for the better expense tracking system, we developed our project that will help the users a lot. Most of the student because of their busy schedule they find it difficult to calculate their expense and income that is the one reason they face money crisis, in this case daily expense tracker can help the student to tracking income-expense day to day and making life tension free and focus easily on their career.*

*It is like a digital diary that keeps record of expenses done by a student. The application keeps track of money spent and the earnings both of the student on day-to-day basis. This application helps the user to easily calculate his/her expenses on daily basis and he/she has not to write down every transaction on paper and do the hectic calculation, it simply makes the task easier. It also has the feature that it gives warning messages if we are exceeding on our expenses and hence, we can limit our expenses and avoid overspending. If you spend less money than the daily expense allowed amount, the money left after spending is added into user's savings. The amount of money saved can be used for celebrating birthday, festivals.*

**Keywords:** Daily expense of a student, warning messages

## I. INTRODUCTION

The "STUDENT EXPENSE TRACKING APPLICATION" is a versatile finance related android application is made to be used on android devices. This android application can be used on all android devices above android version 5.0. It is efficiently prepared to give you the best options for finance planning. The application size is less than 20 MB. It doesn't need any high-end hardware specification. It can easily run-on low-end devices. This application brings out expenses category wise, this will help the user to check the amount of money spent on a particular category to manage their expenses better.

This application is developed using android studio for front end and firebase for backend. Expense Tracker helps to keep the record of daily expenses and monthly income of an users from any place and also bring on a monthly report of the expenditure in pdf format.

In this world of emerging technologies almost everything is digitalized. With large number of money transaction, it is difficult for user to keep track of all your transaction. The "STUDENT EXPENSE TRACKING APPLICATION" app marks all the expenses and helps the user to keep an eye on his/her expenses so that the user is on financially stable path. For using this application, the user has to sign up using the details like name, phone no, username, password and confirm password of the user. The user gets registered just a single time, per user can get just one record. The whole minuteness of the income or expense can be seen, updated or can be deleted as per the convenience of the student.

The quality of this app is that it is depicted in a way to help the students for better finance management planning so that they can manage and keep track of, analyse and optimize their budget or spendings. In this application, we are also going to collect student's data with authenticated permissions, here we will analyse and monitor their different expenses in particular category or by distinct kinds of spending that will help us to see according

to market trends. The conclusion can be derived using some basic techniques such as clustering, classification and association. In this world of growing technologies everything is digitalized. With large number of money transaction and many more things done by the students related to money, it becomes difficult for the student to keep track of all the transaction and spendings. The main aim of this paper is to manage personal and group expenses of a student. Not many applications provide a variety of features within a single application. We develop an android application that keeps record of student personal expenses such as tuition, travel, hostel fee and food, etc.

## II. LITERATURE REVIEW

The application makes a record of the Income and Expenses of the user on daily basis. This application inputs the income of a user and manage its daily expenses so that the user can save his/her money. If you exceed daily expense allowed amount it will give you a warning, so that you don't spend much on that specific day. It has various feature like user registration and creation, adding income and expenses, category master, management date wise, Management View- Category Wise, Remainder. 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. 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. [1]

The expense manager is multi-purpose finance application. It can run on all android devices above version 5.0. The size of application is less than 10mb. The aim of this application is to manage personal and group expenses. The idea behind this paper is to tackle lack of financial awareness in country. It has some unique features that makes it stand out from other application on play store. Spreadsheets are helpful in managing small data but this application can manage large data very easily. It has a good user interface which can tackle problems easily and provide best budget options. This will further include patterns which can be graphical portrayals. This will further include representation of user expense daily, monthly, half-yearly and yearly. It can give options to the client for adjusting his costs in a good manner. Creating this application is safe and here the client data is secure. [2]

He made an android application named FAMILY EXPENSE MANAGER. It keeps track of your expenses, family expenses and incidental expenses. All the information is saved in database and can be recovered anytime by user and his relatives. Its main objective is to do everything automatically rather than doing it manually. We can monitor our all expenses and refresh the information and make everything computerized. It is open-source and can be accessed by everyone. This application is suitable for people belonging to middle class, we can mark the status of our bill in this application. This application is compatible to run on: iOS, Android and Windows Phone. Here we can connect any of our smart card to this application. After adding our card, it will get updated automatically and it reduces the burden of doing it manually. [3]

He has made an intelligent online budget tracker (GeniousOBT.com) to fully track homely budgets. Budgeting is an essential segment of society. Budget tracking includes tracking and examining the incomes and expenditures of an individual or a group over a fixed duration. Nowadays, everyone is living his/her life in a rush, most people want logical and systematic ways to budget their time and money in a better way. This system will help everyone to plan and trace homely budget related issues where each and every member of the family can easily know it at all and at any moment through the help of internet. The online budget tracker not only keeps record of the budget but on the other hand also prepare ways to examine data through charts and graphs and in addition it also foresees future budgets and problems like bankruptcy. By this a solution is provided which gives us online means to keep and examine the financial data. Major goal of this project is to provide budget tracking via online mode where every homeowner can examine their financial data from anywhere at any moment through the internet, they can get the information from web browser of their PC and also from new cell phones.[4]

## 3. PROPOSED SYSTEM

There are various applications on the play store for managing our expenses and keep records of our spending's. some of the applications are like spend book, pocketwards, home budget etc. The substantial part of these applications aims to take input of money and novels money related problems and learn the expenses by that. This application mainly focuses on tracking the expenses of a student and it works like a digital diary that will help the student to stay away from manually calculating everything using pen and paper. It has categories such as tuition fees, food, clothing, travel, coaching, stationary, hostel fees etc. Here we can se the status of our bills and it is convenient for middle class people.

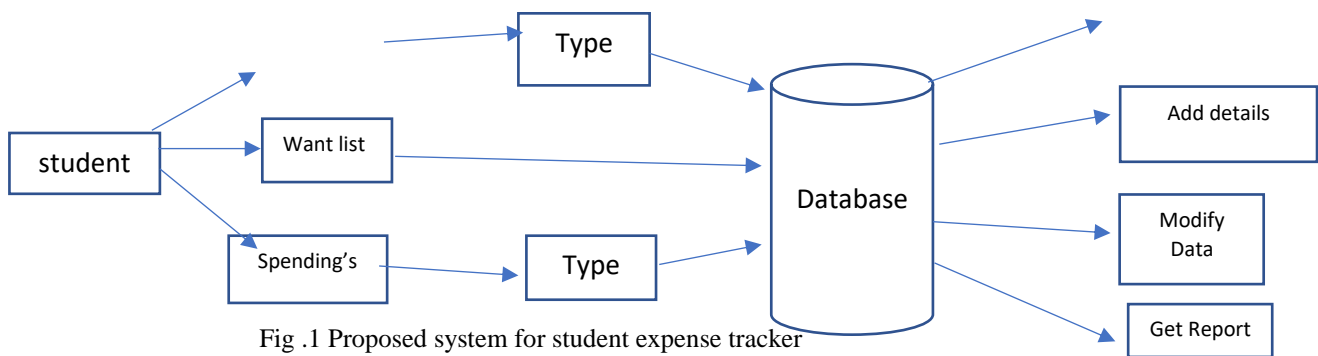


Fig .1 Proposed system for student expense tracker

#### 4. RESULTS

So basically, the student can include this application in his/her daily routine by this he can be disciplined about his expenses and get better and better at saving, and utilise the money on learning new skills or buying presents for parents etc. They will also focus on earning money and making new sources of money in turn getting better future ahead. This application will also help in analysing the monthly expenditure.

#### 5. CONCLUSION AND FUTURE WORK

Hence, this application can be treated as version-1 and later we will update and add new feature to it accordingly. Once the user gets familiar with the settings of the application, then we can update it to version-2. Our future work will be to merge this application with credit/debit or any of the smart card and will keep the record of each and every credit and debit. It will update the details automatically and we will be able to monitor our spending easily.

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