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# Rajshahi University of Engineering & Technology

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*Department of Mechatronics Engineering*



**COURSE CODE: CSE 2188**

**COURSE TITLE: SOFTWARE ENGINEERING SESSIONAL  
Project Report**

**Project Name: Personal Expense Manager**

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**Introduction:** *Personal Expense Manager* is an Android application to manage daily income and expenditure.

Managing money isn't the easiest thing to do. Now that many of us no longer balance a checkbook, tracking expenses and keeping up with the bank balance can get a little difficult. Personal finance apps can connect with your bank account and help you keep up with your spending. This app can help you figure out which categories you spend the most in, track your expenses and earnings.

**Objective:**

- I. To study and learn about software development.
- II. To develop a particular software from scratch.

**Project Overview:** Our project name is *Personal Finance Manager*, a dedicated Android application to manage personal finance. And we have developed an application named *Personal Finance Manager* under the category of finance manager.

Here, stated the feature of our application:

- ❖ Registration and login using Email and password
- ❖ Add income and expenses with short details
- ❖ Update and delete income and expense information
- ❖ Show stats comparing income and expenses

And our used tools, platform, language to the development of this application are listed below.

- Platform: Android
- IDE: Android Studio
- Programming Language: Java
- Design Language: XML
- Database Management Tool: Firebase

**Bugs:**

- The app immediately shuts down after opening 'Stats' page
- Can't update 'Notes', App immediately shuts down

- We can't install the app using apk file, we need to use our phone as virtual device in android studio in order to install the app
- App forces shut down if we write something other than number in 'Amount' option

**Discussion:** Our project Expense Manager has several limitations compared to our initial planning. Initially our planning was to create a budget planning section. But in the final application there is no budget planning option. Rather there is only an expenses and incomes tracker system. Also, there was a plan to make detailed and organized analytics that would show daily, weekly, monthly basis reports comparing budget and expenses with pie charts. Instead, there is only a stats section that shows incomes and expenses with short details. In our final application there are several bugs that will make users feel bored in using this application. Using Error Handling these issues can be overcome.

**Conclusion:** Our financial lives can be made less stressful by using personal finance apps. For instance, they make reference to programs that allow users to monitor their budgeting, spending, and income. Even individuals with limited financial education skills will benefit from this app.

We have immediate access to all pertinent financial data for both personal and professional usage thanks to personal finance apps.

By understanding where we invest, it will improve our financial efficiency and give us a better sense of where our money is going. We can also keep track of our income and expenses, as well as the money we spend on our own needs and the needs of others. In actuality, it will increase our financial efficiency and organization. By examining financial investment in the discretionary sector, we can decrease errors in crucial situations. By giving us information about our progress and how far away from our goals we are, personal finance apps assist us in achieving our objectives. Using this software wisely will be the greatest method to make the anticipated progress.