Project

Proposal

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**Date:**

11-Oct-2020

**Course:**

Human Computer Interaction – FALL 2020 – Sec B

# Project Description

People spend hard earned money to buy or rent products and services daily. It is always a tough job to keep track of all the daily expenses, analyze all the data, and make a balance sheet manually. So, to overcome this, we intend to develop an offline, cross-platform mobile application ‘MyBucks’, which will keep in check of all the daily expenses, and visualize the data in the form of charts and graphs, to ease the daily expense management and provide a good user experience.

# Main Features

The user can:

1. Perform CRUD operations on their daily expense, income and can also set, edit, and delete their budget for individual expenses.
2. Manage their expenditures from different account types, such as, bank account, cash in hand or credit card.
3. View expenses, income, and balance in the form of pie charts and line graphs.
   * View different types of expenses in pie chart.
   * View different sources of income in pie chart.
   * View remaining balance in the form of line chart for each month.
4. View the expenses on the monthly, weekly or daily level with date and time.
5. Search for specific transaction using filters such as Expense Category, Income Category, Account Type and Min-Max Amount.
6. Export the data on the Excel Sheet.
7. Backup/Restore the data on the device.
8. The user can create notes while adding the expenses.

# UI/UX Features

1. Security features such as Passcodes and Fingerprint Scanning to lockout unauthorized access.
2. Complete Dark/Night mode to reduce eye strains and battery usage. This also helps in managing sleep patterns.
3. Easy to Learn/Memorable Interface in accordance with the Mental Model of the majority of the users for high efficiency.
4. Strong relation between icons and intended features so that any documentation to use the app is not required, again ensuring efficiency.
5. Ensures high effectiveness by giving users the features, for which they downloaded the app.
6. Supports the use of app by red/green color blinded users, by ensuring that the text, background color or colors in pie charts do not get mixed by them.
7. Due to it being mobile application, this brings many ergonomic features.
8. Utilizes Material UI, which is supported by best interface design practices.
9. Provides safety feature by allowing the user to backup their data on the device, so that they can restore if anything happens to their data. Safety is also ensured by not putting save and delete buttons together and other similar scenarios.
10. Offline mode which helps in book keeping even while away from the internet.
11. Provides a sense of security and satisfaction to users, that their critical data is not on some third-party server but on their own device.
12. No disturbing advertising while keeping the app free of cost.
13. Colorful graphs and charts to visualize the numbers.
14. Easy access with a smaller number of actions to the intended features.
15. Uses no camera, microphone or other sensors on the device which could cause a security breach.
16. Notifies a user through a tune, banner and vibration when their expense exceeds the budget.
17. Saves certain information through notes with expenses which is in STM of the user, so that they can see the note and remember about a certain expense.

# Conclusion

Summarizing the features, the users will be able to manage their expenses effectively. They can easily save on their income by seeing the statistics on the charts and graphs. Furthermore, the users can set their own budgets on different expenses, to be remembered when they spend a little extra. All these features while considering the concepts of Human Computer Interaction, which are described in UI/UX features.