**CECS 453 Final Project Design Document**

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***Project Name:*** Expense Tracker

***Project Description:***

This application allows users to maintain a digital automated diary. Each user will be required to register on the system at registration time. Expense Tracker application, which will keep a track of Income-Expense of a user on a day-to-day basis. This application takes income from user and divides in daily expense allowed. If you exceed that day’s expense it will cut it from your income and give new daily expense allowed amount, and if a daily expense is less it will add it to the savings. Expense tracking application will generate report at the end of month to show Income-Expense via multiple graphs. It will let you add the savings amount, which you had saved for some Festivals or day like Birthday or Anniversary.

***Task Allocation:***

*Sudheer Vemuri* - Creates Report, Add, Edit, Delete Expense and Income screens.

*Apoorva Chava* - Creates User account login details screens and splash screen with edit functions and Database design.

***Functionality Description:***

Expense Tracker is an application where the user can keep track of expenses and spend money accordingly. Here, the main window is designed in a navigation drawer template where the user can access different windows. The user can register and login with the credentials given and the screens are provided to edit details. The daily expense can be created, sorted, edited and deleted. Finally, a report is created based on items, months and monthly saving.

***Item Deliverables:***

* Splash Screen
* User Login
* User Registration
* Home Screen with Logout button
* Add Expense Screen
* Edit/ Delete Expense Screen
* Add Income Screen
* Edit Income Screen
* Report which shows the Net balance

***Tentative Screens:***

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| --- | --- | --- |
| ***A screen shot of a computer keyboard  Description automatically generated*** | ***A close up of electronics  Description automatically generated*** | ***A close up of electronics  Description automatically generated*** |
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***Data Flow:***

***A close up of a map

Description automatically generated***

The above-mentioned tentative screens may differ from the original and the changes are updated accordingly.

***Database Design:***

* User Account Details Table(Username, Password, Email)
  + Primary key(Username)
* User Expenses table(ExpId, ExpName, ExpType, ExpAmount, ExpDate, Username)
  + Primary key(ExpId), Foreign key(Username)
* User Income Table(IncId, IncName, IncType, IncAmount, IncDate. Username)
  + Primary key(IncId), Foreign key(Username)