

## CSCI 6907 Project Proposal

### ***Budget***

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### ***Project Abstract***

This project will implement a monthly budget application which will keep a track your monthly expenses. This will include the total expenditure during that particular month. This application will give a detail overview of the expenditure during that month. Each entity in the expenditure will be accompanied with a Note, Image and Location (which is exceptional as per user's choice). The application will also display a graph of the overall expenditure. This application will help to manage the monthly budget more effectively with a simple user interface.

### ***Strategy***

The application will be implemented on Android Platform. Android application will be setup on Android simulator/virtual device through Eclipse IDE and Android SDK.

I will be using database to store the budget information, that is to store notes, Image and location from where the entity was purchased. I will use location service to get the store location and android hardware to get the image from the camera.

The APIs I intend to use are:

1. android.app- This API is used for all the User Interface Activity in the application
2. android.database.sqlite- To store each entity information and retrieve the information when required.
3. android.hardware- To initiate the camera and take a picture of the product or entity you have purchased.
4. android.location- This API is used to get the location of the store.
5. android- This API is used to add permission for GPS, Camera use.

### ***Unknowns & Problems***

Working with UI will be fine. Integrating different part of the application will be challenging like integrating Camera, Notes and Location to a entity. I haven't work with the Database in the mobile application before and I think this will be a problem. Also I want to have a graph in this application which will show the monthly spending graph and I am still looking at the different APIs to do so.

### ***Implementation Plan***

1. Making a User Interface and linking the UI with each other.
2. Making a database using android.database.sqlite to store the information as I browse through the UI's
3. Making a 'Transaction' i.e adding entity to the database.

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4. Using Camera to add a Image which is related to a Transaction
5. Adding a Location information to each entity in the Transaction
6. Integrating Note,Image and Location information attached to the entity in the Transaction.
7. Adding the entity in the Database.
8. After the addition of the entities doing the required Arithmetic and calculating the exact budget left.
9. Retrieving the data from the database.
10. Making a graph after the entities and budget has been decided.