

CSCI 6907 Project Proposal

Deals Proximeter

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Project Abstract

This report presents a proposal for Deals Proximeter to be developed as a part of the Final Project of CSCI 6907. The basic idea of my project is customer attraction and thus improves business efficiency.

Strategy

The aim of the project is to provide a user with deal of the day for a particular store depending on the proximity of the user to that store. This application will be a boon to both the User and the Store as this will improve the business of the store and enlighten the User about the deals going on in the store for that day. I will write this application for Android SDK plug-in and Google API for Eclipse. I will be using the SQLite for the database. API's which the project will be using are:

1. Android(defines application permissions for system features)
2. Android.app(for providing encapsulation of classes)
3. Android.database.sqlite(for managing private databases)
4. Android.location(for providing location based and related services)
5. Android.content(for accessing and publishing data on a device)

Unknowns & Problems

I am still unfamiliar with much of J2ME and so many parts will be new. I am not familiar with much of the API's. This is my first Android application and I am eager to learn, explore and research for finishing this project successfully. I do not anticipate either of these things being a large problem as the Android development kit seems to be mostly complete with documentation. One other challenge will be to match the longitude and latitude of the User and the range which has been set to receive the message and I hope the Google API will provide the needful for integrating the maps from external libraries.

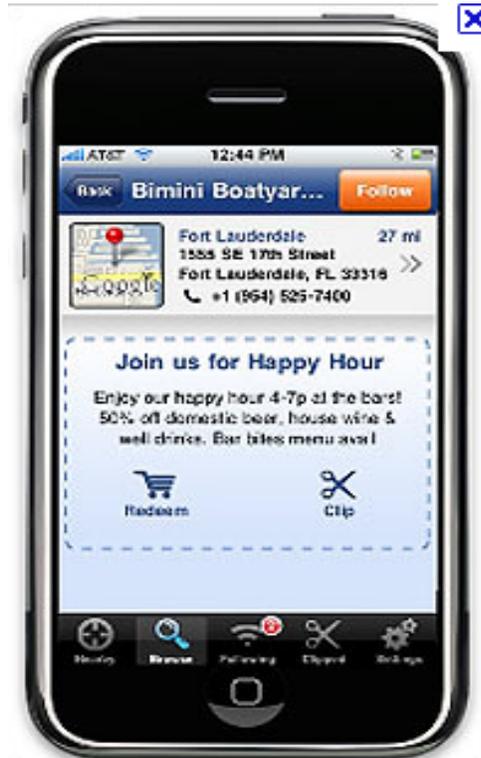
Implementation Plan

I will try to follow the following steps in implementing this project:

1. Enter a fixed longitude and Latitude for a Store in the database.
2. Fix a range for distance from the store and capture the longitude and latitude.
I am trying to find out ways to do it, one such will be "Google API s", but I will take sometime off to read and understand how it really works.

3. Keep a track on longitude and latitude of the User.
I am deciding on what tool to use for this and again I will probably be familiar with the tools by next week (8th October)

OUTPUT:



(Source: Internet – my output is similar to this)

4. Send a deal to the user when he is in the proximity of the store.
I am thinking if we can use two emulators to show how the application works
 - (i) Within the desired proximity
 - (ii) How it fails outside the proximity.