

## CSCI 4237 Project Proposal

### DCEvents!

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#### ***Project Abstract***

There are many great events happening every day at DC area. Every body should find one that suits him or her. The problem is that sometimes it can not be that easily done. For instance, there are so many sources from which one could find event list. Browsing through each list could be really painful. Or maybe you just came to realise that you've missed a big event in a building which you walked by fifteen minutes ago. Unfortunatley you could not go to the event since you were already on the metro. DCEvents! won't let these happen again by providing events view on maps for you in real time or on a daily basis from various sources and letting you informed about events nearby and their hotnesses so that you are never going to miss them. Moreover, DCEvents! helps you to plan attending events and even allows you to create your own events which you can share with others.

#### ***Strategy***

This app will be designed for Android smartphones running os version 2.3.3 to 4.0.3. Design and programming will be done using eclipse with ADT plugin. Besides UI features offered by the Android SDK, other features like maps, networks, database management, location service and (maybe) bluetooth will be utilized to build this app. Buliding and testing uses android simulator with AVD profiles created for Samsung Galaxy S II, and the final app should be able to run on the real device properly. App demo is planned on a real handheld device in a WiFi environment.

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

- Android API, have to learn and practice many of them.
- I may need two real devices to test my app, but I am not sure yet.
- I need to find out how SQLite can handle things for this app and to see if a traditional database server is needed. If so, I may abandon part of the features.
- The way to notificatae a user has not been considered thoroughly.
- An intelligent way to gather events sources should be found, otherwise I have to enter them by myself.
- An easy way to generate hotness for an event
- Integrate it with calendar?

## ***Implementation Plan***

I'll start by basic UI design, then move to maps integration, networking, location service and database.

Milestone (tentative)

<b>Task</b>	<b>Due</b>
<b>UI study and deisgn</b>	10.10
<b>Google map integration</b>	10.14
<b>Develop weather app to get networking and location service implemented</b>	11.05
<b>Implement database</b>	11.20
<b>Check to see if other feature can be included</b>	11.26
<b>Fully tested and demo</b>	12.03

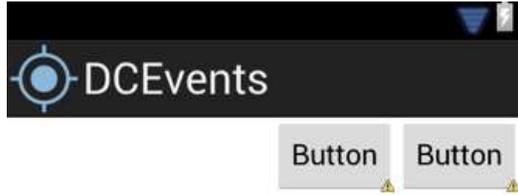
Unknwon parts of the app development should be eliminated by reading books and online topics. Testing uses both simulator and a real android device owned by me. Each component will be tested before I move to the next stage. I could always add features which I learned but are not planned during any iteration of my application. Each iteration should produce an app that can run on the real device with features added.

At this point, I just list the packages that I need. Class diagram will be included in my final report.

android.app	android.os	android.text
android.view	java.util	android.content.res
android.database.sqlite	android.graphics	android.location
android.net	android.database	com.google.android.maps
java.net	and more ...	

## Project Proposal

### User interface



The main UI is not complicated. It lists events on maps, and user can use function buttons to choose from different view and different date (the functionality and number of the buttons are subject to change).