

## **CSCI 6907-80 Project Proposal**

### **GWU Police Department Scheduler**

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Ravi Goti  
G47688507  
ravi\_g@gwmail.gwu.edu  
202-445-4255

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

The GW University Police Department Scheduler (UPDS) is a mobile based application for the android operating system. The application allows the employees of the University Police Dept. (UPD) to effectively see their schedule of shifts on a weekly basis. It also allows employees to view the location of other employees during the time of their shift which serves a great purpose during an emergency. The employees will also be able to swap, drop, pick up shifts using this application in case they cannot work on a particular time frame.

#### ***Strategy***

The application will be built for the Android version 2.3 (Gingerbread) and higher versions. Currently the project will be demonstrated in an Android emulator. Expected features for the application will be as follows:

- 1.) Login authentication for the employees
- 2.) Google Maps API to see the location of other employees
- 3.) A simple UI for even the naïve user of the application

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

I have no experience with the android application development. However, I have a programming background which will allow me to tackle the problem of understanding the Android APIs and implementing them. One of the major problems expected is the map-view when the user needs to see the positions of other employees during that particular time.

#### ***Implementation Plan***

With the help of android developer guide, I should be able to find my way through the problem of map-view comfortably. Like Java, the Android API also follows an object oriented approach. Going by the same techniques as Java, and with a bit of advancement and features, the project implementation should be less troublesome.

The Following rough sketch should describe the estimated UI of the application proposes:

## Rough sketch of the application

Name

Gwid

Pass

Your next shift is on:

Date:

From:

To:

Location:



Map View  
to see positions  
of other  
employees