

GWPD employee application for Android devices.

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Overview:

I created an application for the Android devices for the GWU Police department employees that aims at viewing, dropping, rescheduling their shifts as they need. I used Google Maps api for the users to view their schedule in a more detailed manner.

Getting Started:

When the users first run the app, they have to bypass a user authentication page where only the valid employees based on the GWids are passed through. Once they are validated, they are directed to a screen to View, Drop and View Map options.

View Shifts:

When the user selects the View Shifts option, he can see a Toast message for all his forthcoming shifts. The details of the shifts based on the GWids are stored locally on a SQLite database. So based on the correct SQL query, the records are retrieved.

Drop Shifts:

On clicking the Drop Shifts option, the user is directed to an activity that has the list of all his shifts. On clicking the one that he intends to drop, a toast message is displayed which confirms the deletion. The Deletion also takes place by executing an appropriate query in the SQLite database which drops that record for that user.

View Location:

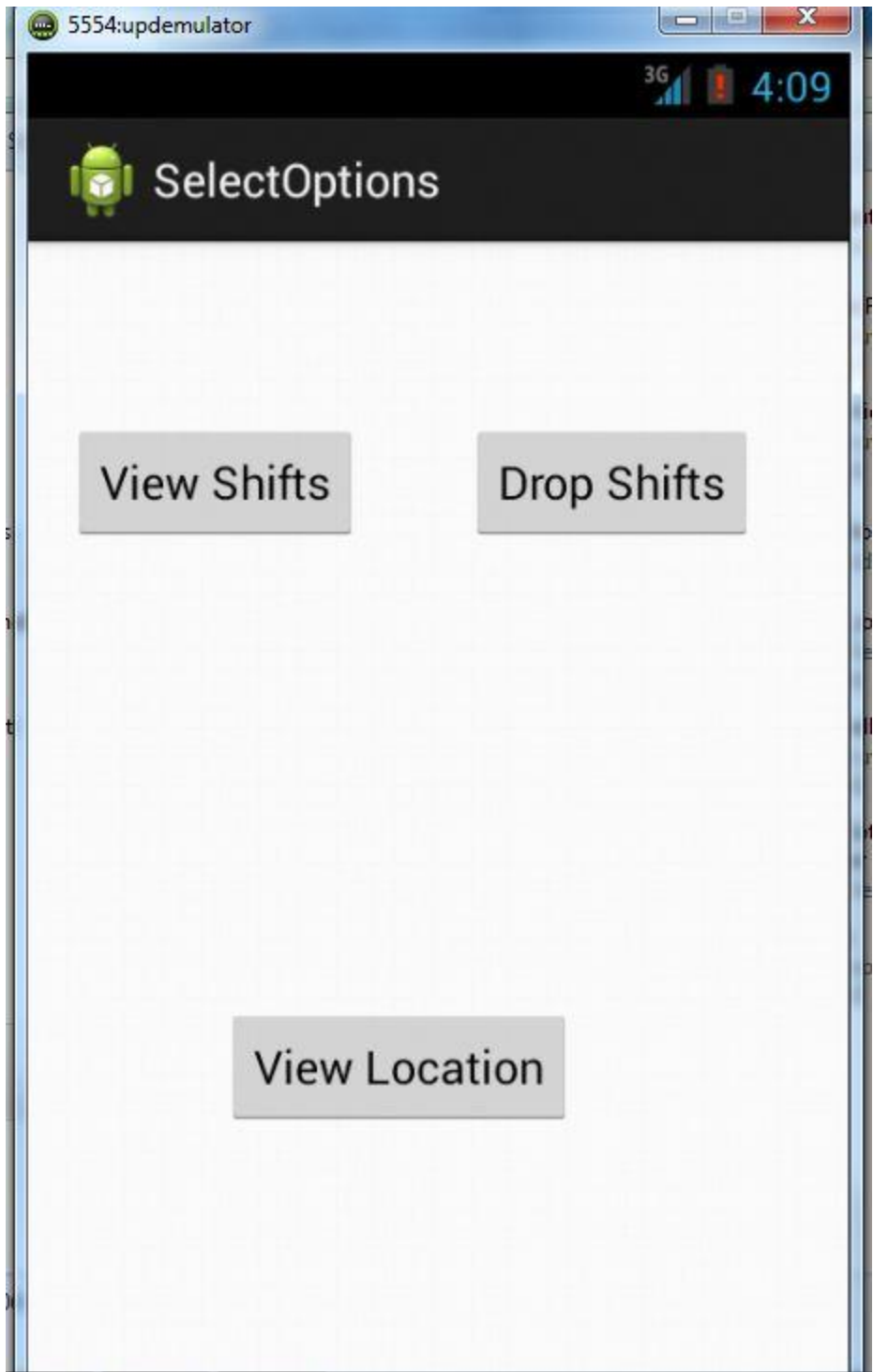
On Clicking the View Location option, the user is able to see a map view based on a Google Map api which has indicators pointed to the location of their shifts. On clicking the indicators, a message appears that gives the location, GWid and time of the shift for that employee.

Problems encountered:

One of the main problems I faced was using the Google Maps api. There were compatibility issues between the android version I used and the Google Maps api. With the help of some online resources and the latest fix for the emulator, I managed to overcome them.

Screen Shots:





 SelectOptions

View Shifts

Drop Shifts

id: 47688507
Date: DEC-07-2012
Location: MARVIN 203
Time: 20:00



ListViewDelete

MARVIN 203

MPA

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You have selected MARVIN 203 and will be deleted



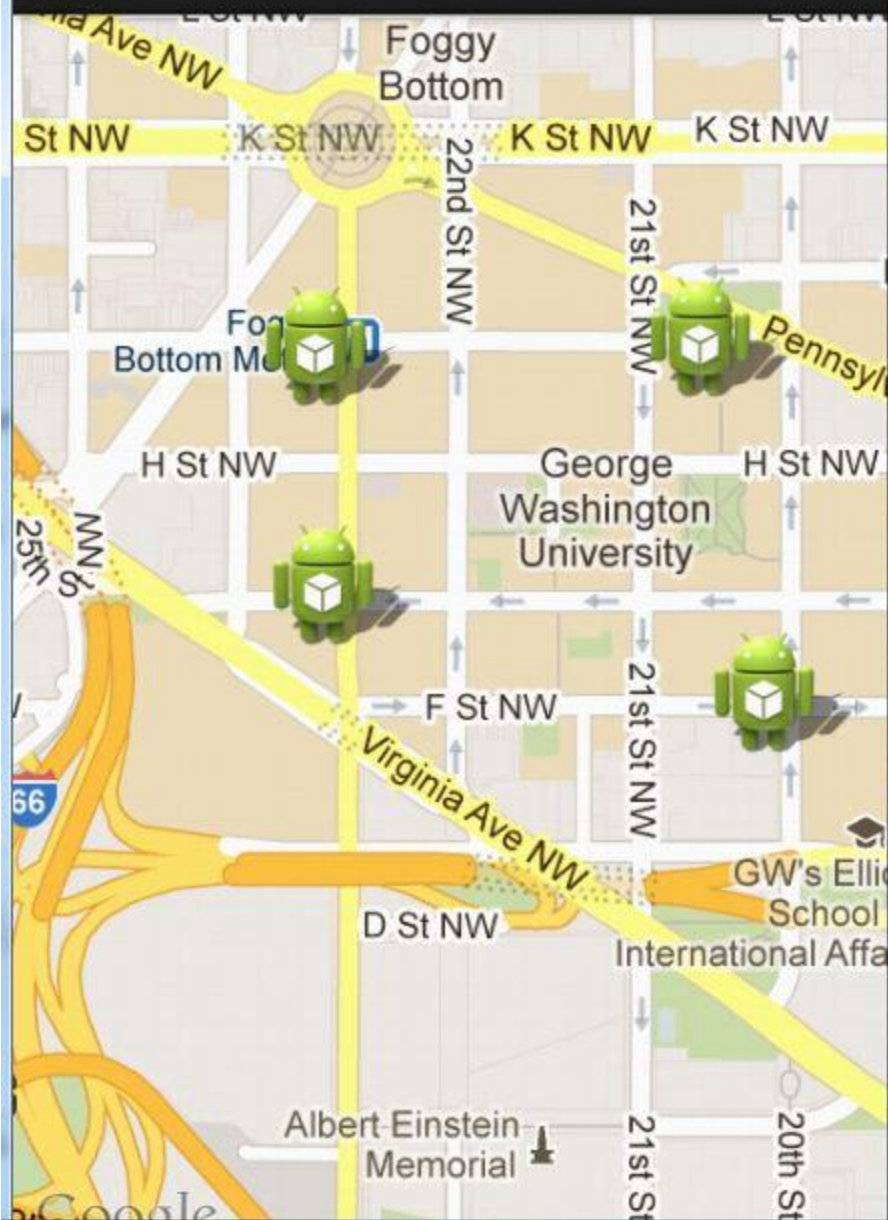
ListViewDelete

MARVIN 203

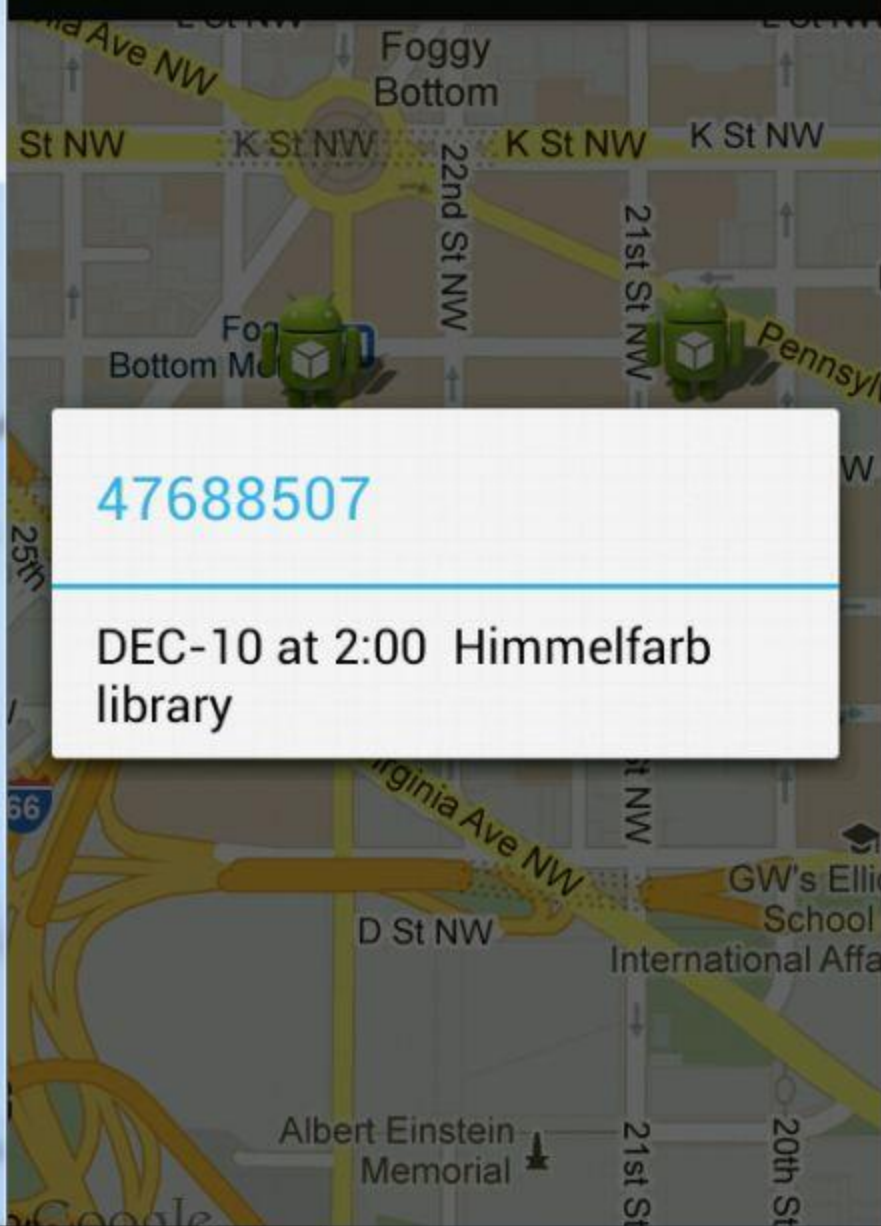
MPA

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MapViewActivity



MapViewActivity



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DEC-10 at 2:00 Himmelfarb
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