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CS 275 Web and Mobile App Development
Septa Viewer
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The files contained in this folder are the project files for the Septa Viewer project, the README.pdf file, and the screen cast video file. This assignment asks us to create an application that takes the user's source train station and their destination train station and then creates a listview for the user to view all the trains that are going from that source to that destination. Each item in the listview has the train number, the departure time, and the arrival time. Also when the user long presses on an item in the listview, the application shows information on that train in a toast. That information is the last station that the clicked train has just departed, the scheduled time of that departure, and the actual time of the departure. Finally the application has a button that brings the user to a new activity when clicked. On this activity is a webview that shows a google maps image with markers of all of the trains.

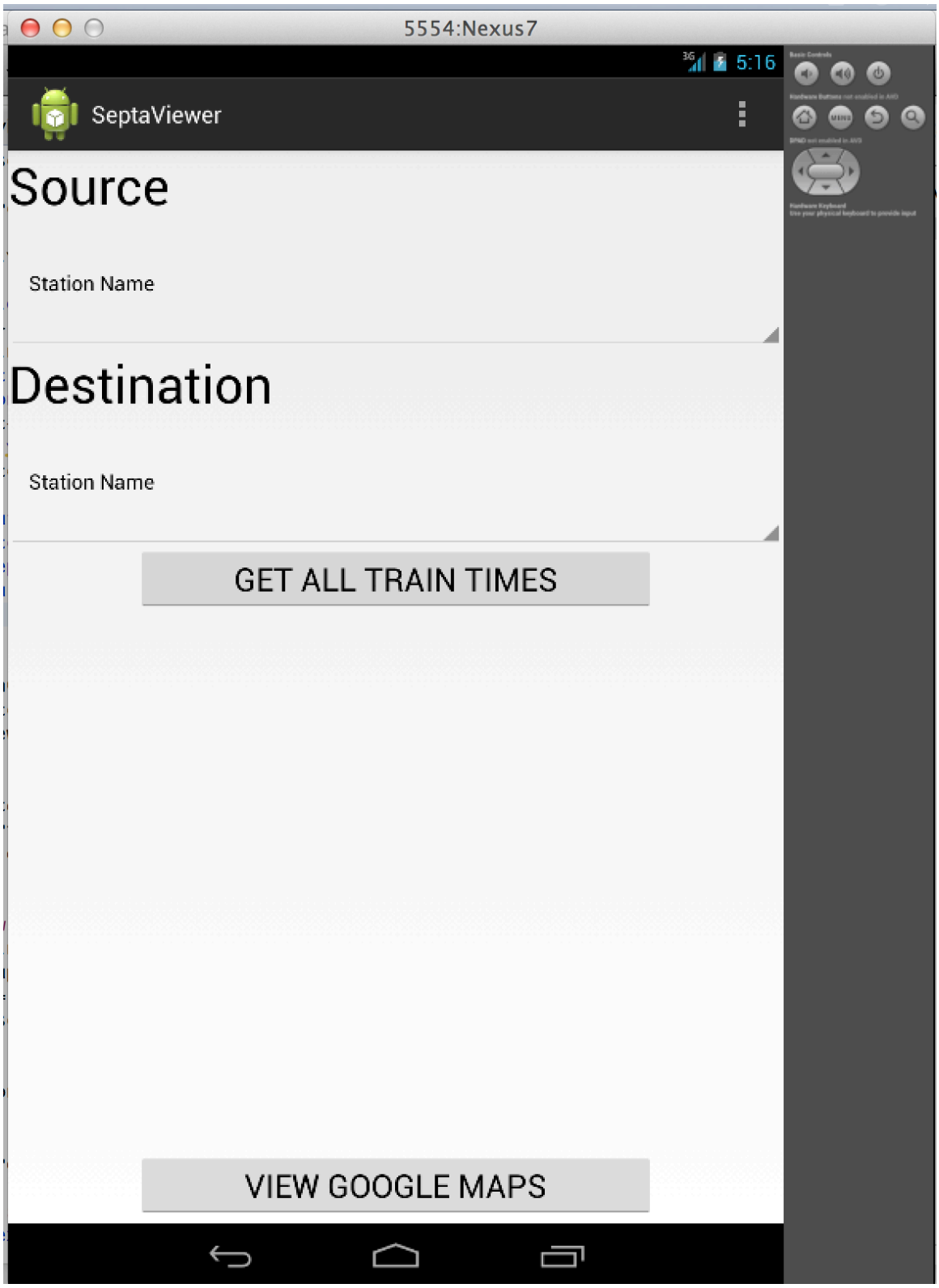
This android application was written in java in eclipse using the android sdk. The emulator that was used was the Google Nexus 7 and the layout that was used was Nexus 7.

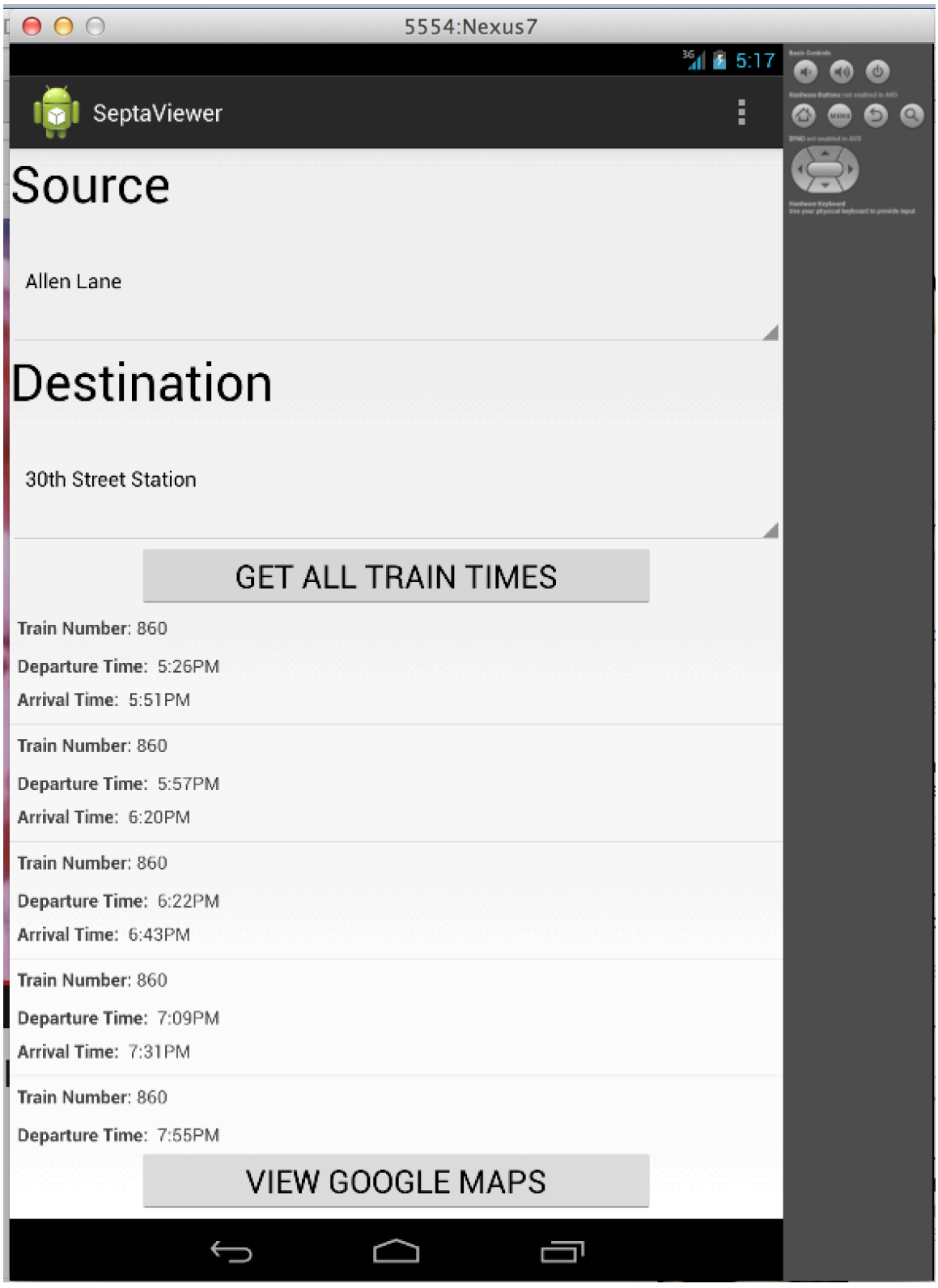
This application was compiled and run in eclipse using the android sdk and Google Nexus 7 emulator.

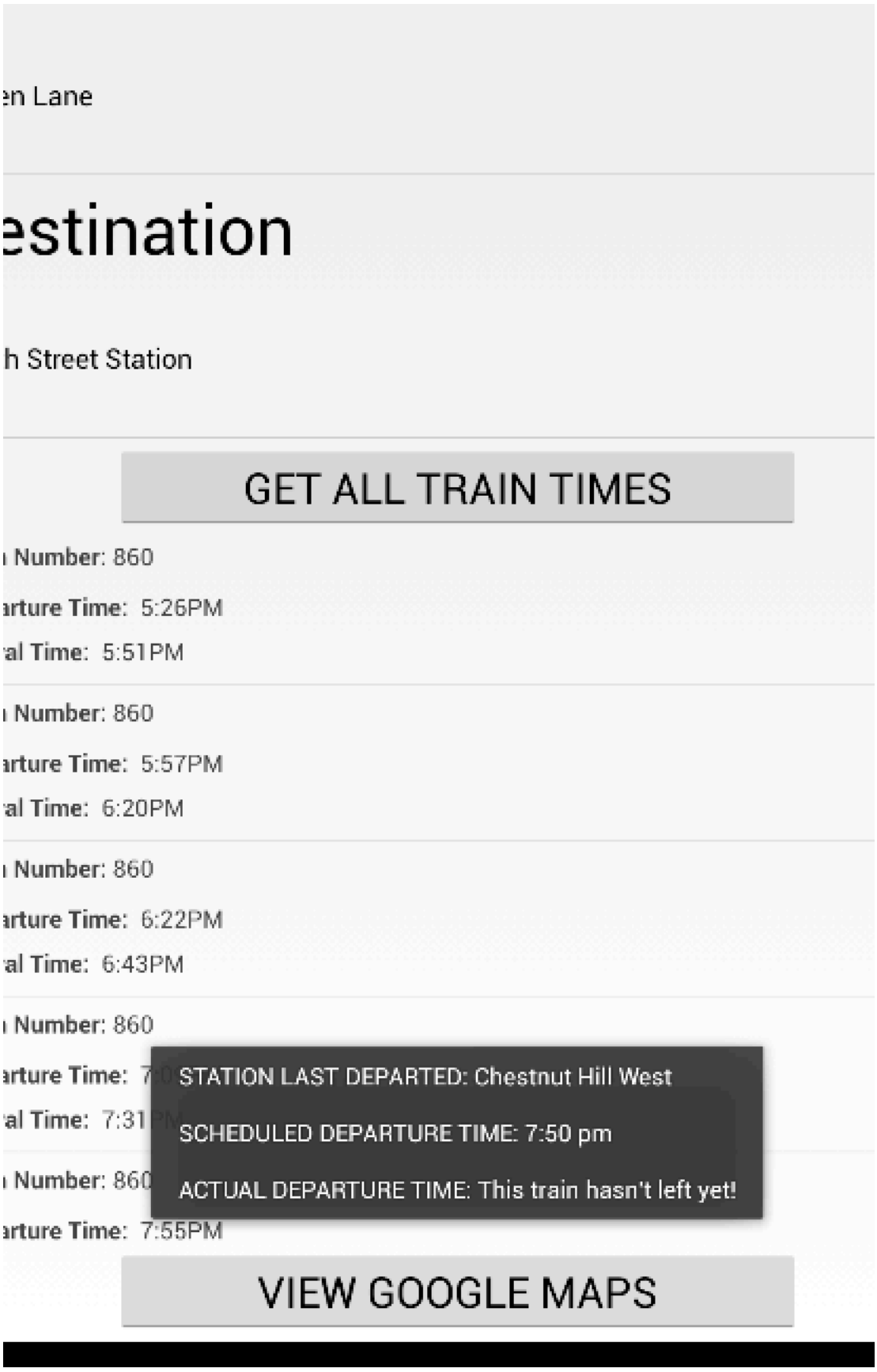
For the listview, there are two files, which are item.java and ItemAdapter.java. The item.java file initliazes the train number, departure time, and arrival time for the item and the ItemAdapter.java file puts all of the items into a scrollable listview. There is also a ViewMaps.java file, which initializes the webview of the google maps. All of these functions are called in the MainActivity.java class. The application makes use of the SEPTA API to get the information of the train in the form of a Json. It also makes use of an html file of the google maps. The application then goes into the html and queries the latitude, longitude, and train numbers. This is how the google maps webview is initialized.

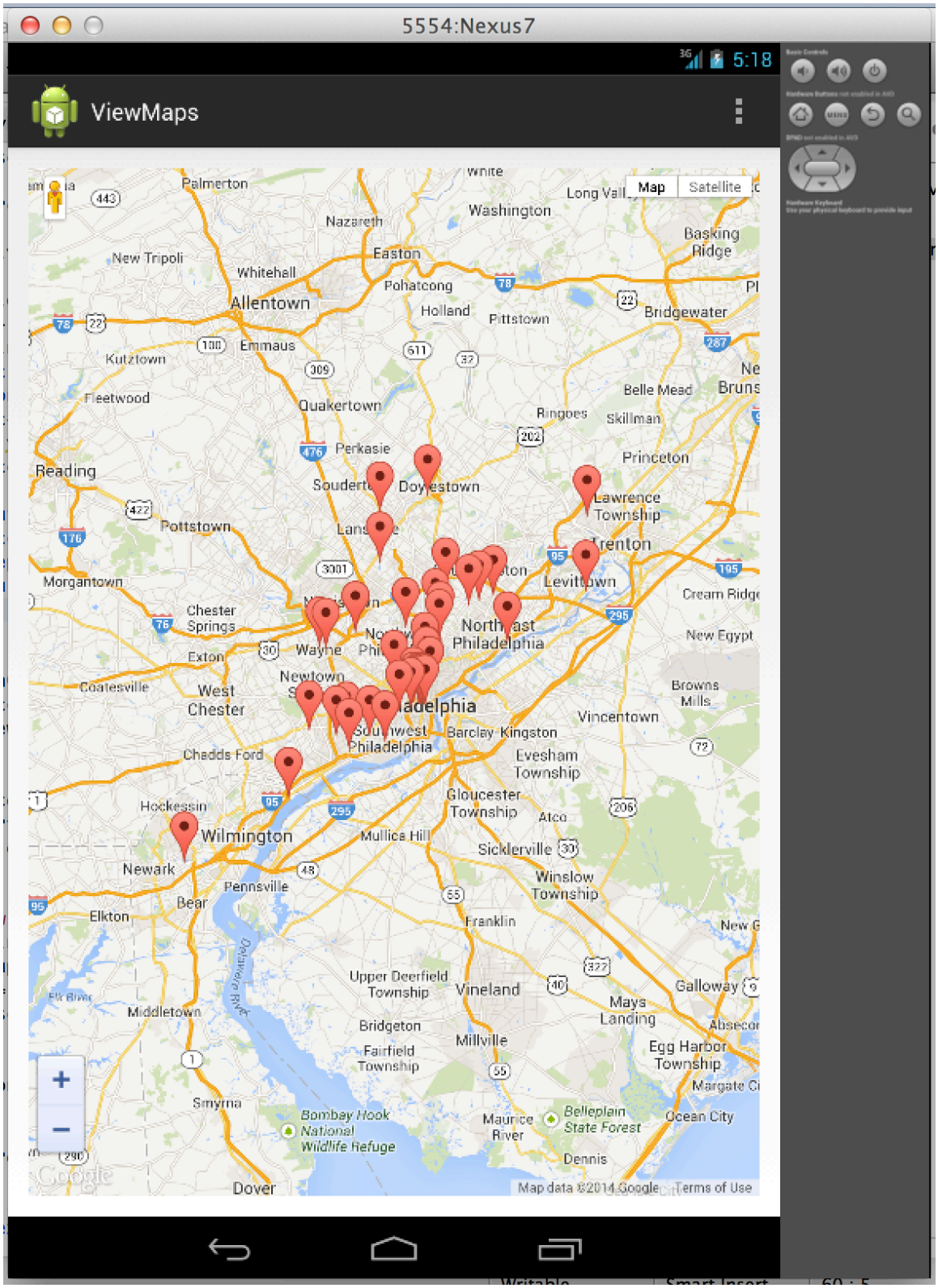
After testing this application it worked. When listview appeared when the user picked a source and destination and pressed the get trains button. Also the long pressing worked and displayed the information of that train in a toast. Finally, the view google maps button worked and brought the user to a new activity that showed the user a google map of all of the trains.

I really enjoyed doing this assignment. I think the last lab (lab 4) was a very good set up lab for this assignment because I was able to do the array adapter for the spinners, the list adapter for the listview, and also the async tasks for all for all of the network calls. The only challenging part of this assignment was the google maps part but once I learned how to do it and how it actually works, I realized that it is actually very simple. In conclusion, I really liked this assignment and am quite pleased with my results.


5554:Nexus7
5:16
SeptaViewer
Source
Station Name
Destination
Station Name
GET ALL TRAIN TIMES
VIEW GOOGLE MAPS


5554:Nexus7
5:17
SeptaViewer
Source
Allen Lane
Destination
30th Street Station
GET ALL TRAIN TIMES
Train Number: 860
Departure Time: 5:26PM
Arrival Time: 5:51PM
Train Number: 860
Departure Time: 5:57PM
Arrival Time: 6:20PM
Train Number: 860
Departure Time: 6:22PM
Arrival Time: 6:43PM
Train Number: 860
Departure Time: 7:09PM
Arrival Time: 7:31PM
Train Number: 860
Departure Time: 7:55PM
VIEW GOOGLE MAPS


en Lane
estination
h Street Station
GET ALL TRAIN TIMES
Number: 860
arture Time: 5:26PM
al Time: 5:51PM
Number: 860
arture Time: 5:57PM
al Time: 6:20PM
Number: 860
arture Time: 6:22PM
al Time: 6:43PM
Number: 860
arture Time: 7
al Time: 7:31
STATION LAST DEPARTED: Chestnut Hill West
SCHEDULED DEPARTURE TIME: 7:50 pm
ACTUAL DEPARTURE TIME: This train hasn't left yet!
Number: 860
arture Time: 7:55PM
VIEW GOOGLE MAPS


5554:Nexus7
5:18
ViewMaps
Map
Satellite
Palmerton
Nazareth
Washington
Basking Ridge
New Tripoli
Whitehall
Easton
Allentown
Pohatcong
Holland
Pittstown
Bridgewater
Emmaus
Kutztown
Fleetwood
Quakertown
Belle Mead
Ringoes
Skillman
Perkasie
Princeton
Reading
Doylestown
Lawrence Township
Pottstown
Trenton
Morgantown
Levittown
Cream Ridge
Chester Springs
Northeast Philadelphia
New Egypt
Exton
Wayne
Coatesville
West Chester
Browns Mills
Vincentown
Barclay
Kingston
Chadds Ford
Evesham Township
Gloucester Township
Hockessin
Wilmington
Mullica Hill
Sicklerville
Newark
Pennsville
Winslow Township
Bear
Elkton
Franklin
Upper Deerfield Township
Vineland
Galloway
Middletown
Mays Landing
Bridgeton
Millville
Egg Harbor Township
Fairfield Township
Smyrna
Bombay Hook National Wildlife Refuge
Maurice River
Belleplain State Forest
Ocean City
Dennis
Dover
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