TECHNISCHE UNIVERSITÄT DRESDEN

Department of Computer Science Institute for System Architecture, Chair for Computer Networks

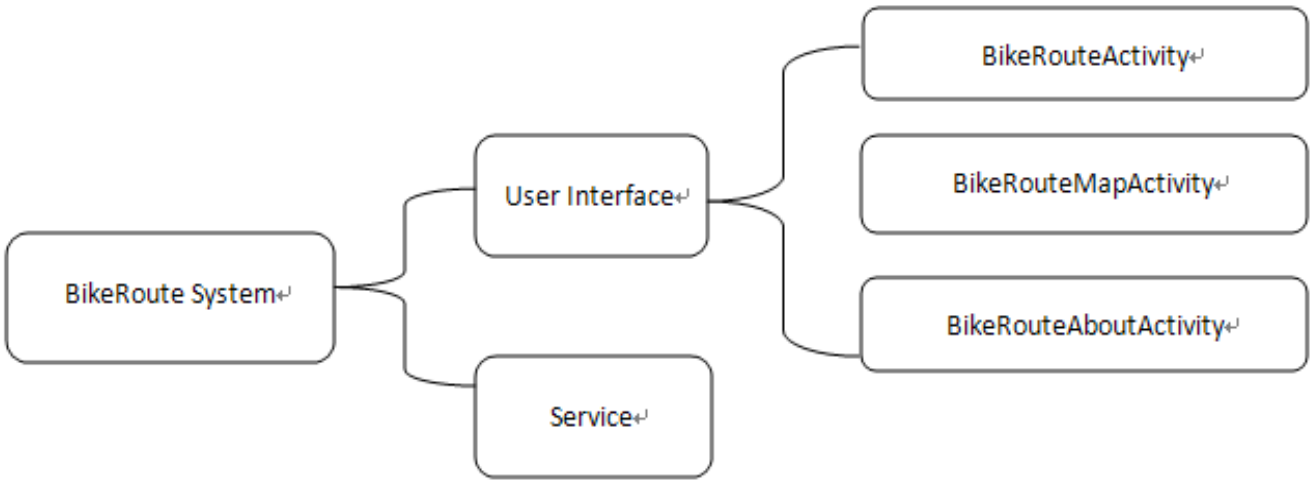
Application Development for Mobile and Ubiquitous Computing

Seminar Task

Second Presentation

GroupNo.17
Team members:
Lili Li, Yu Nong

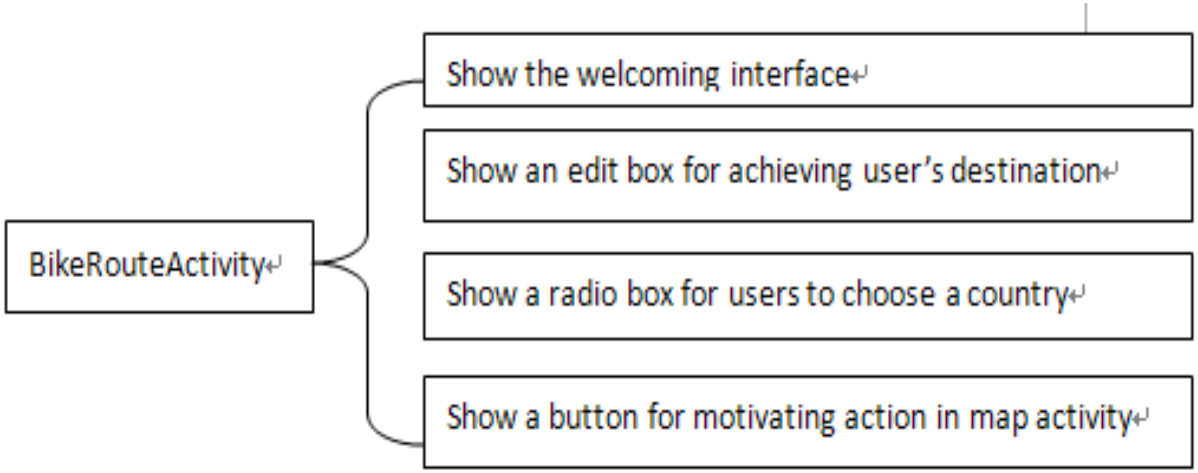
Our system



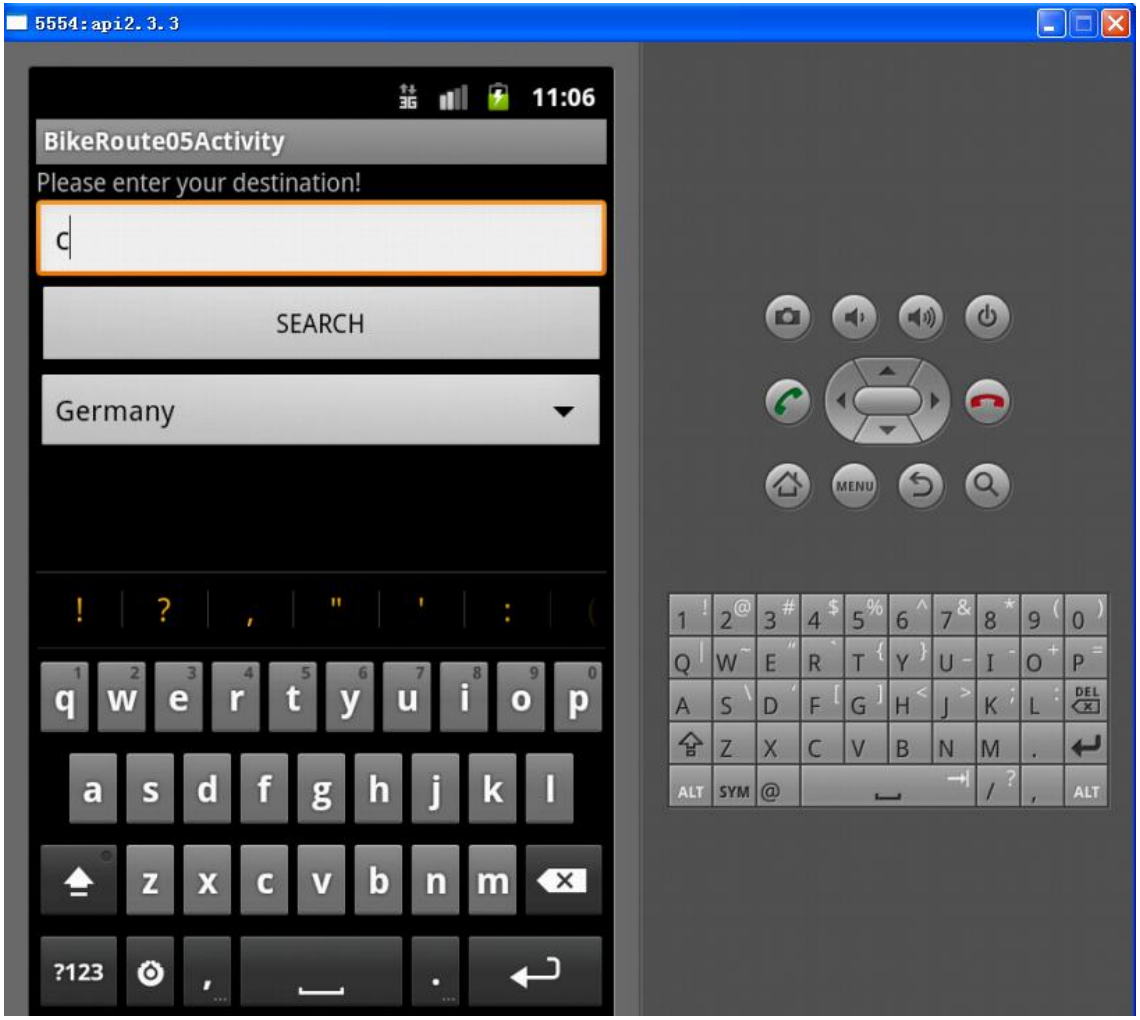
- Our system is a simple mobile navigation system for users who ride bike in a strange city.

Our System-BikeRouteActivity

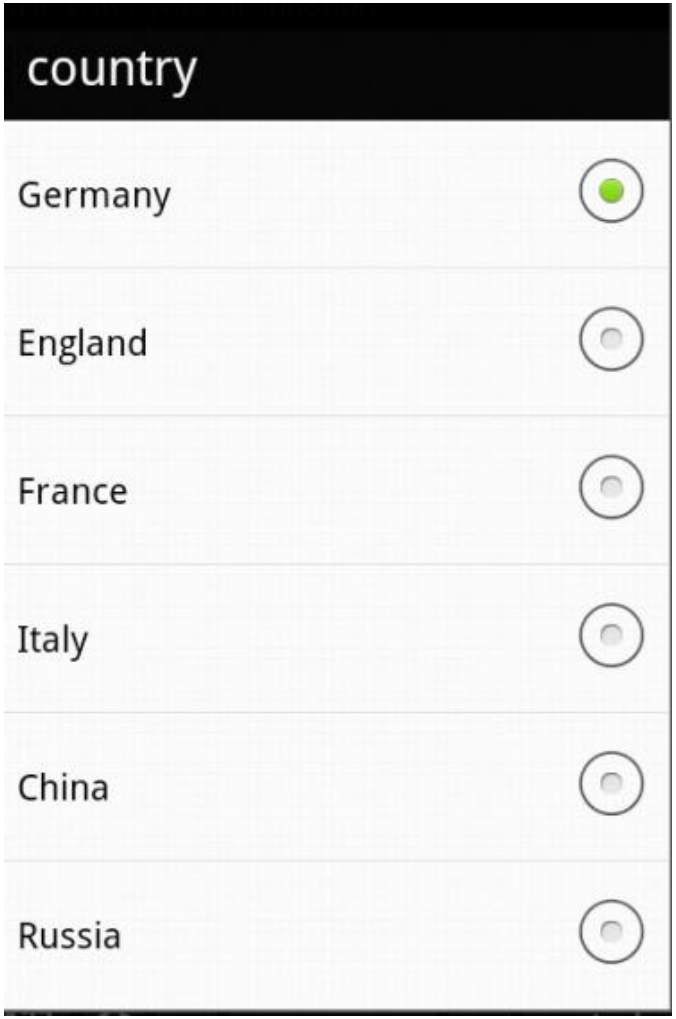
- The main activity includes four tasks.



Our System-BikeRouteActivity

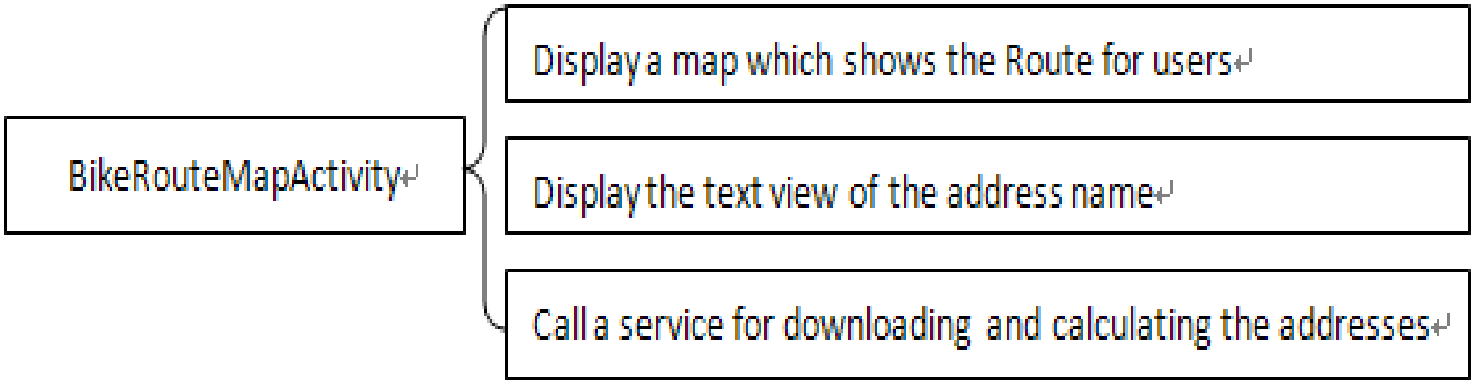


Our System-BikeRouteActivity

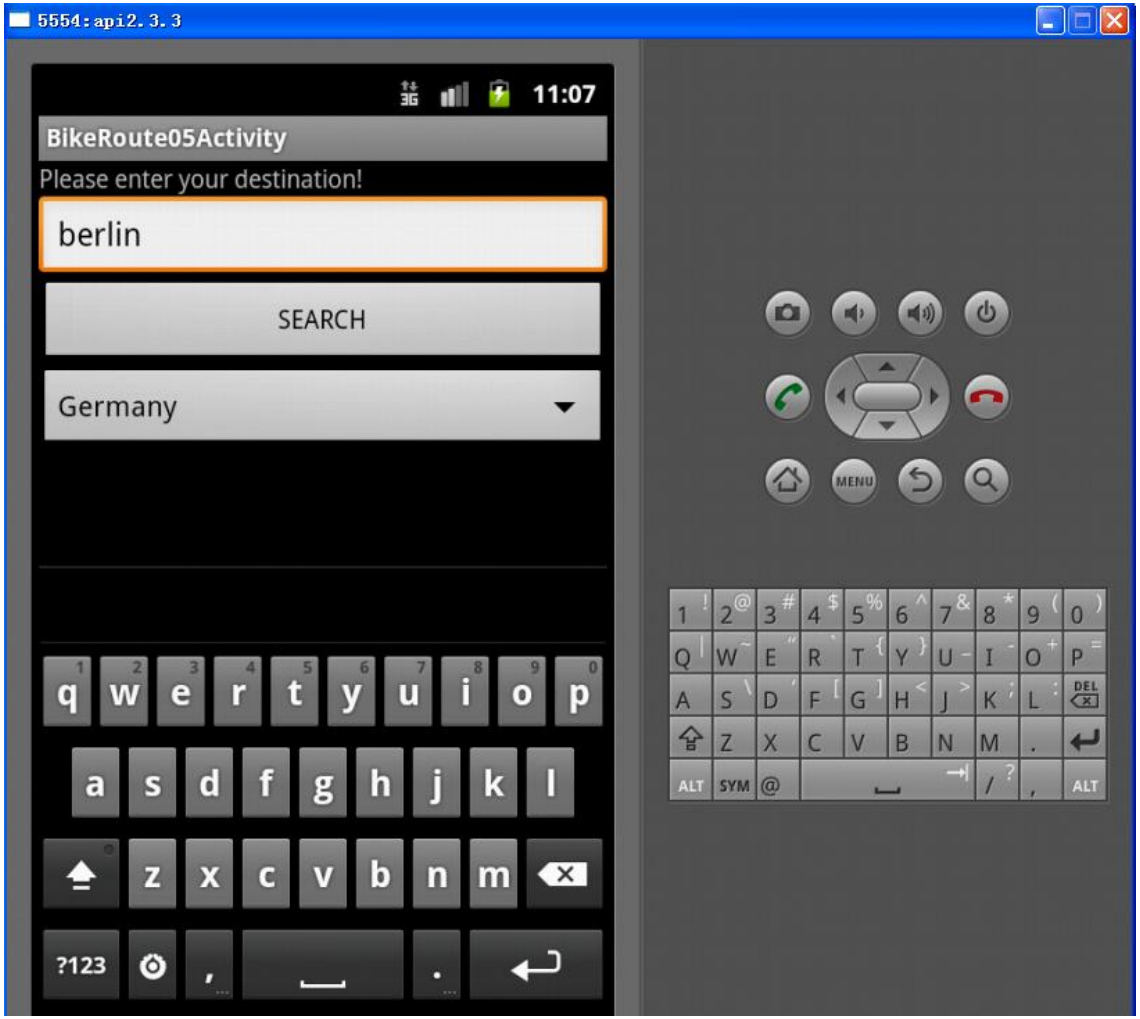


Our System-BikeRouteMapActivity

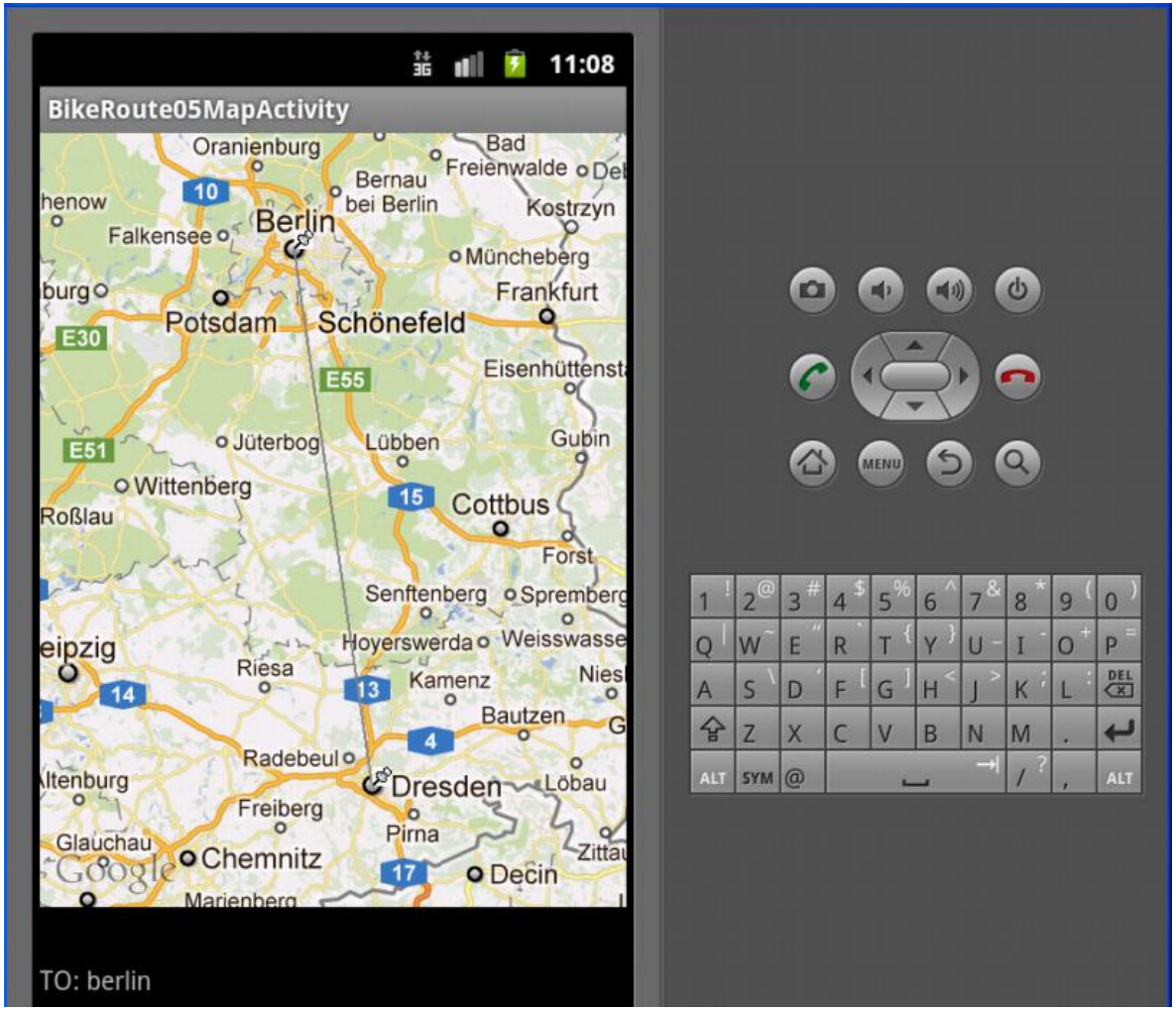
- The second activity extends MapActivity which includes two fields on the screen and calls a service to deal with data.



Our System-BikeRouteMapActivity

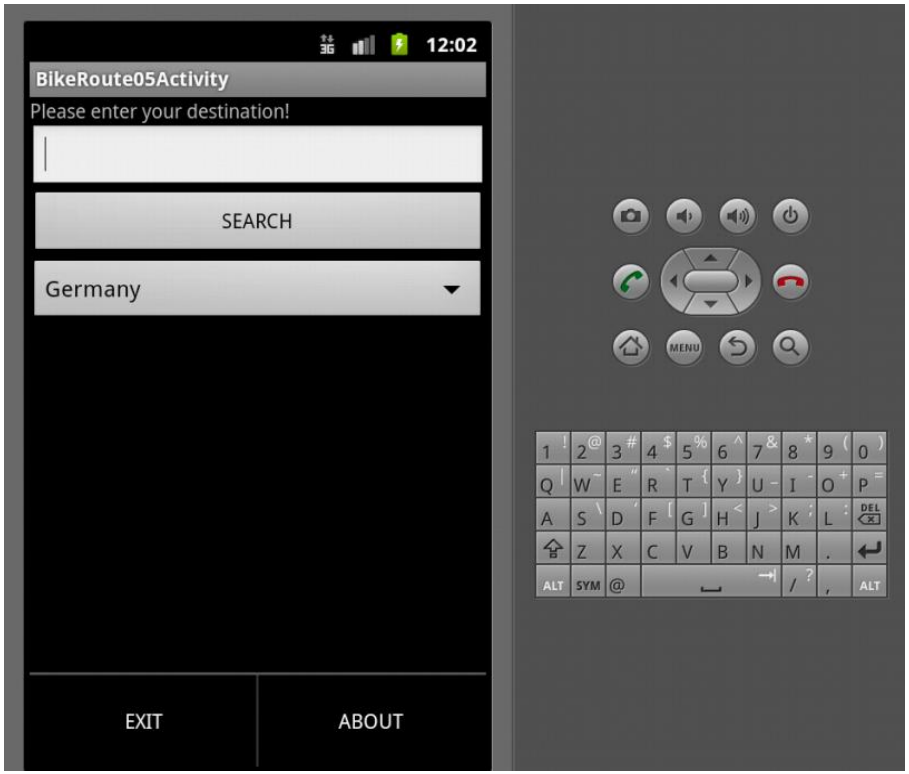


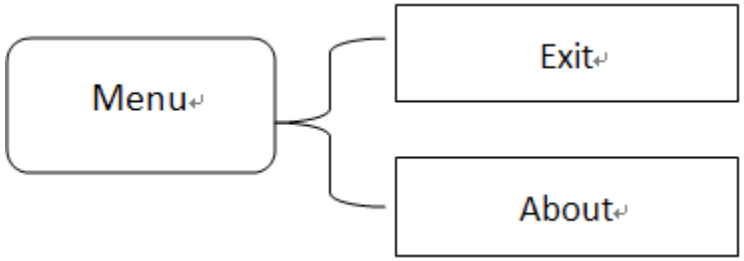
Our System-BikeRouteMapActivity



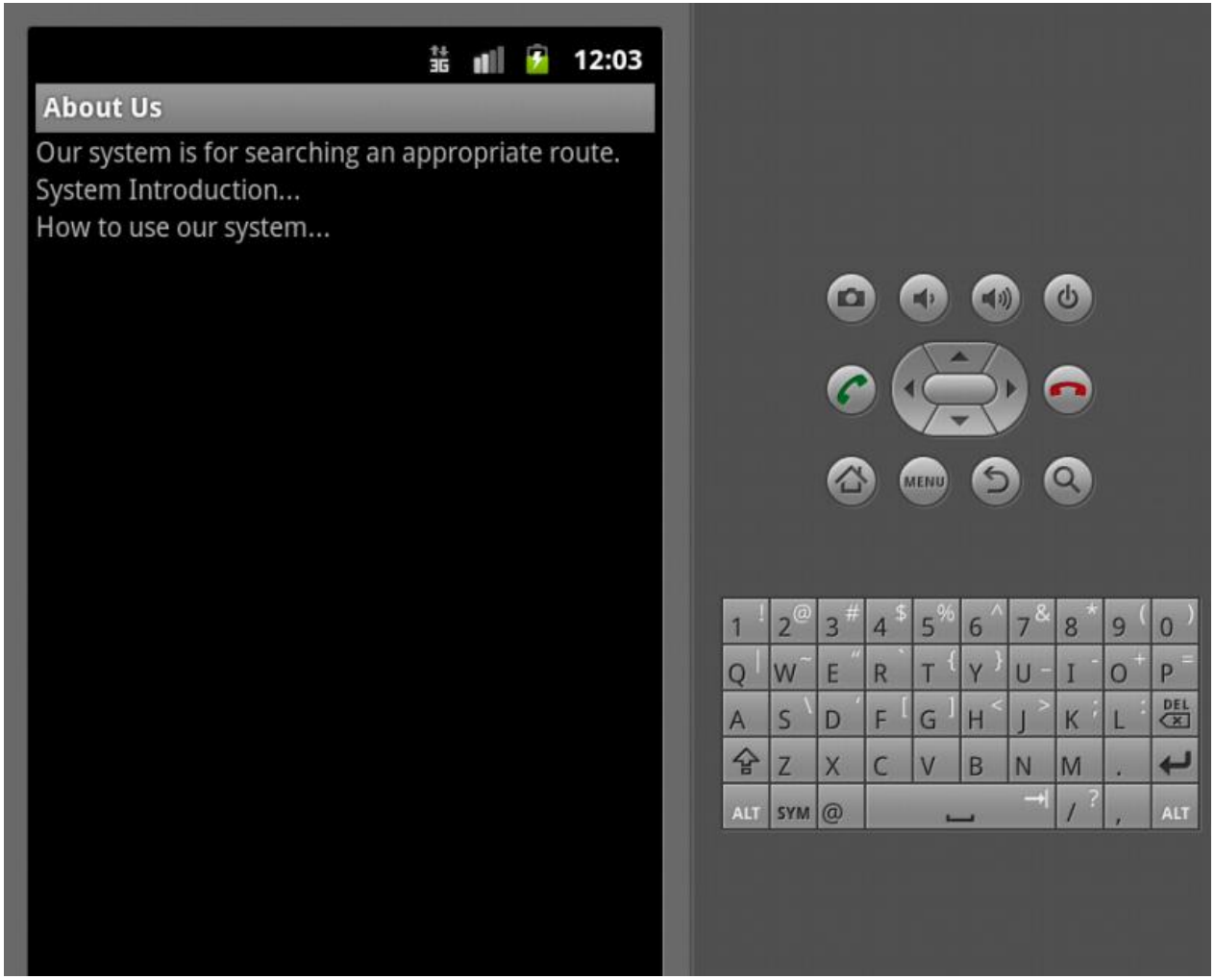
Our System-AboutActivity

- Two functions for clicking menu button.



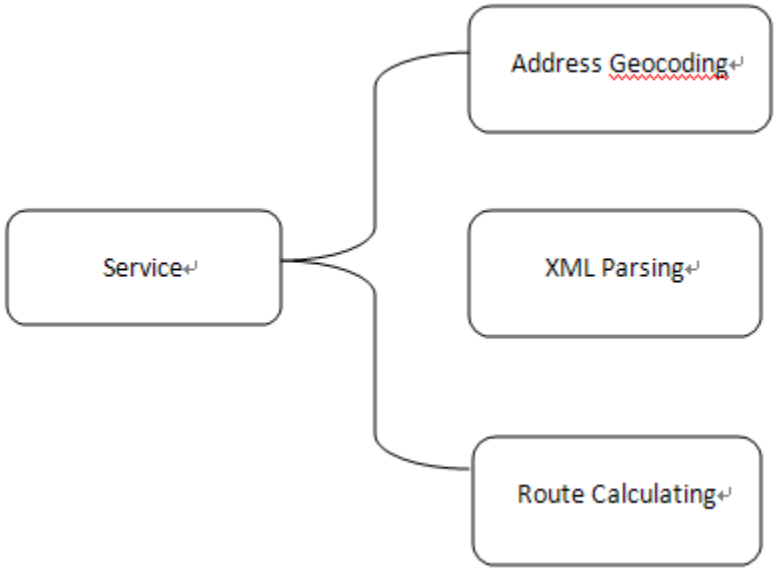


Our System-AboutActivity



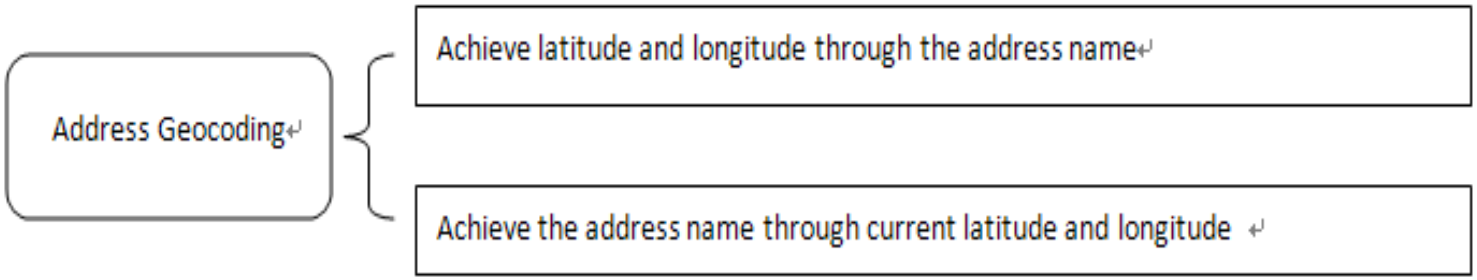
Our System-Service

- Service deals with all the data and send back to map activity.
- It creates three threads to download and parse current location , destination and calculate the route.



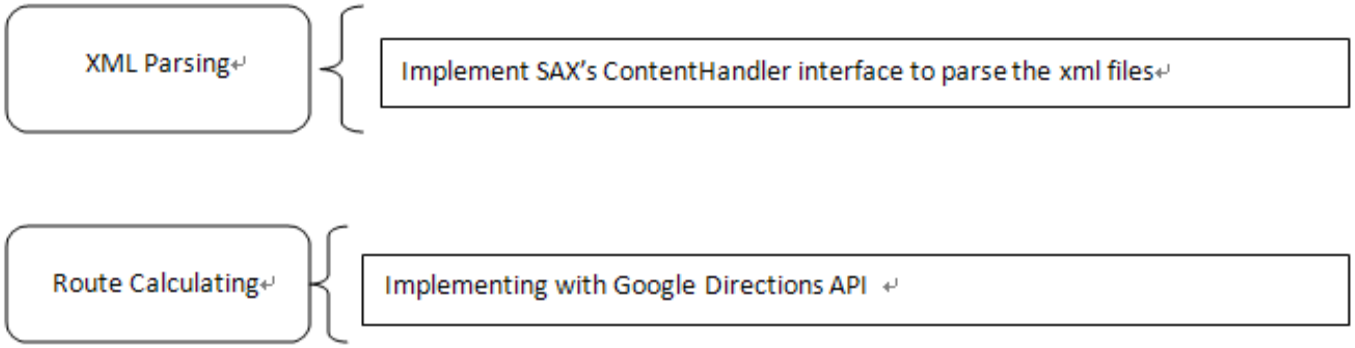
Our System-Service

- Use LocationManager to get current location's latitude and longtitude.
- Use Geocoding API http requests to replace Geocoder.
  http://maps.googleapis.com/maps/api/geocode/output?parameters

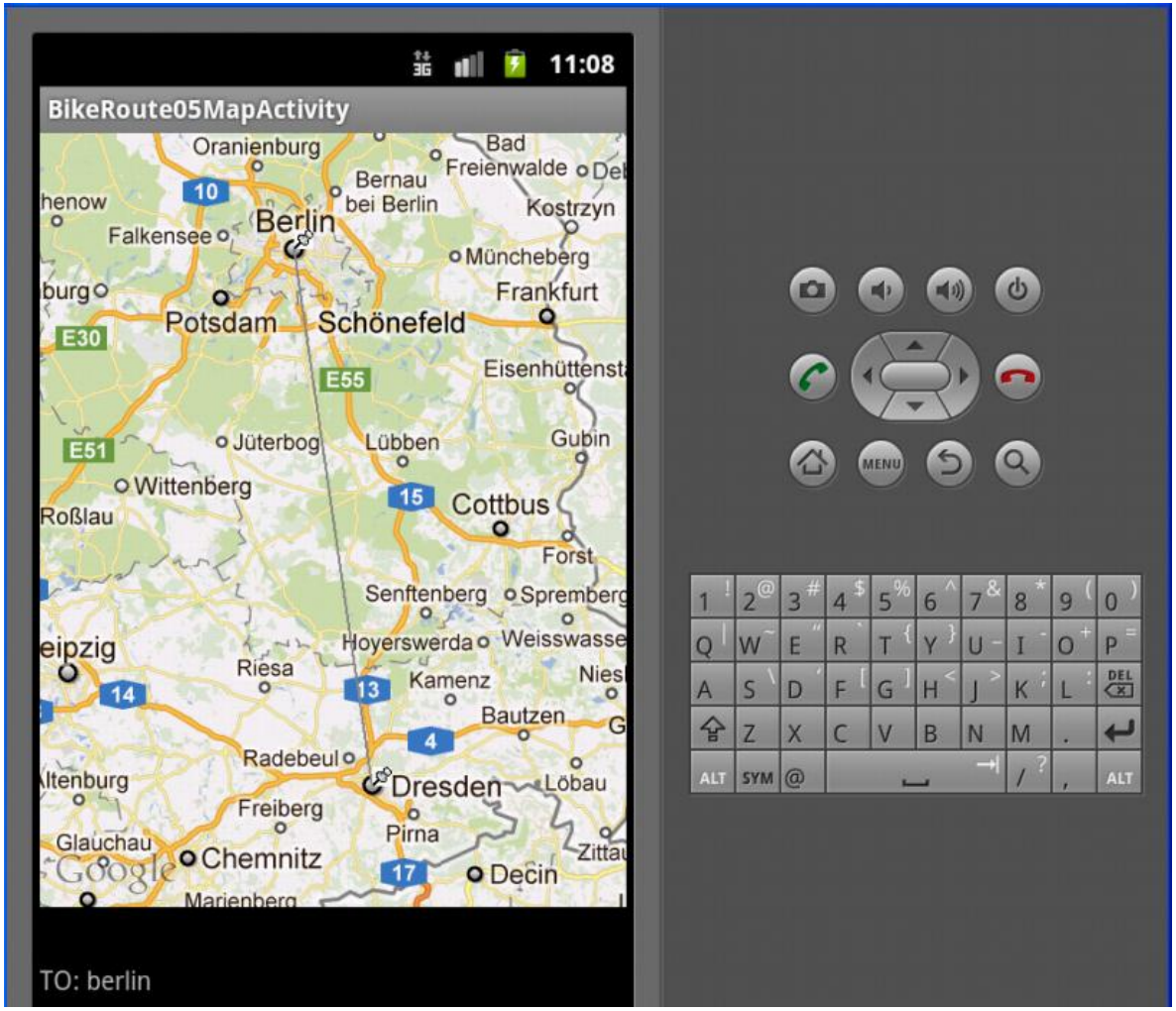


Our System-Service

- We have a XMLParser class and two content handler for current location and destination.
- For route calculating, we plan to using Google Directions API.



Our System


11:08
BikeRoute05MapActivity
Oranienburg
Bad Freienwalde
Bernau bei Berlin
Kostrzyn
Berlin
Falkensee
Müncheberg
Frankfurt
Potsdam
Schönefeld
Eisenhüttenst
Jüterbog
Lübben
Gubin
Wittenberg
Cottbus
Roßlau
Forst
Senftenberg
Spremberg
Hoyerswerda
Weisswasse
Riesa
Kamenz
Bautzen
Radebeul
Dresden
Löbau
Freiberg
Pirna
Glauchau
Chemnitz
Decin
Marienberg
TO: berlin
MENU

Challenges and Next Step

--Challenges

The algorithm for calculating the appropriate route.

--Next Step

1. Find a appropriate algorithm for choosing a right route.
2. Draw the route on our map
3. Beatify the user interface
4. Testing and Debugging.

Thank You Very Much!

Merry Christmas & Happy New Year