



TECHNISCHE  
UNIVERSITÄT  
DRESDEN

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

# Application Development for Mobile and Ubiquitous Computing

## DTS

### (Dresden Transport System)

## Second Presentation

Group No. 10

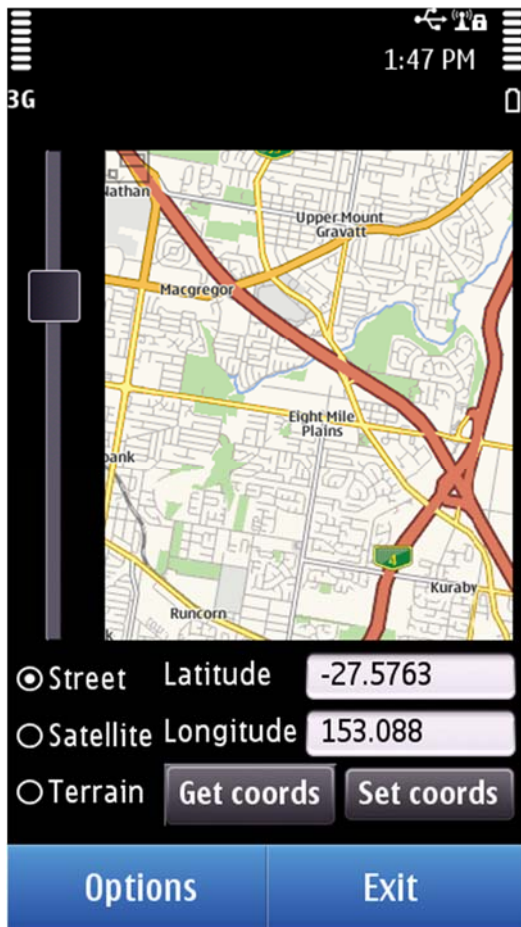
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- As we want to develop our application for Symbian platform we are using Nokia Qt SDK;
- It allows to develop using C++ and advantages of the Qt library or one can use QML;



- Mockup of the application:



- As you see, one can get coordinates of his position;
- Then, it is assumed, that you can save this location. Later on you can map timetable to this location.

- As it was mentioned, Qt library is used;
- Inside Nokia Qt SDK qt-mobility APIs are embedded;
- As an example:

You can get hold of an instance of QGeoMapWidget with:

```
QGeoMapWidget *widget = new QGeoMapWidget(mappingManager);
```

Routes can be calculated using

```
QGeoRouteReply* QGeoRoutingManager::calculateRoute(const  
QGeoRouteRequest &request)
```

- A main problem that we have discovered so far is that some device APIs are not in the qt-mobility version 1.0.2. Also there is some problem with using Qmap widget.
- This issue is solved in the qt-mobility version 1.1.0, but(!) it is not the trivial task to install it and to configure it with SDK.
- We are considering possibility of using Qt markup language – QML;

1. Storing and reading information from the local data storage;
2. Representing this data on the display;
3. Create a route from current position to the nearest transport stop.