

### Functional Requirements:

The software should plan a route for cycle/transit based on information that was given by the user.

### User Interface Requirements:

The software should create a map with multiple layers (cycle, transit) , display amenities (with pictures and descriptions of the amenities) and checkboxes for the preferences.

### Capabilities Requirements:

The software should take 15-30 seconds to plan and should run on chrome, firefox and safari.

### Software Interface Requirements:

The software database should connect to OpenStreetMap

### Software Input/Outputs and Data Requirements:

The software should take inputs from the user (such as the start and the end for the routes) and should output a set of directions (that could be translated to different into different platforms such as google maps). The software should also take in data from OpenStreetMap.

### Installation and Maintenance Requirements:

The software should be able to handle a change in routes based on changes to the real-life environment.