

4 Product Environment

Both the routing tool and the administration tool will run on any decent Linux-PC with Java 1.7 installed on it.

5 Functional Requirements

5.1 Main Functions

5.1.1 Map Component

Necessary for the mandatory criteria. -?

Used in Routing and Administration Tool

- /FM010/ Map is viewed on the screen.
The user should be able to view a part of the underlying graph of the map, highlighted in a color (e.g. the calculated route) ??? Highlighting???
- /FM020/ ~~Building~~ ^{Change viewpoint;} User can change his viewpoint by dragging the map
The user should be able to view a section of the map and be able to upscale, downscale and move this section.
- ~~pan~~ ^{panning function}
- ~~zoom in and zoom out~~ ^{zoom in and zoom out function.}
- /FM030/
The user should be able to select a vertex or an edge, leading to show this vertex or this edge in another color. (Why this for the routing?)
- /FM040/ ^{separate functions}
If the user zooms in to a building, he can click to view the different floorplans of the building and change between them
- User can change his view to a different map associated with a building by clicking on the building.

Used only in Administration Tool

- /FM050/
The user should have a view of the underlying graph of the map
- User can go back in his views?

5.1.2 Routing

Necessary for the mandatory criteria.

- /FR010/
The user should have a view of the whole implemented campus-plan and the possibility to zoom and pan on this map (also without an active route) ^{This is already mentioned. More looks like a map functionality.}
- /FR020/
If the user zooms in to a building, he can click to view the different floorplans of the building and change between them ^{Very similar to FM040.}
- /FR030/
The user can type in a starting point and an end point into two different corresponding textfields where he wants to route to and a button to begin the calculation of the (shortest) route between these two points for pedestrians
- /FR040/
The data in the textfields can be: a building number, a building number combined with a room number, an address of a building (road and housenumber) or the name of the building/room/location