Software Engineering Project

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7 of January of 2014

Outline

Tools and resources

IDE

- Qt 5.1 with OpenGL
- Matlab 2013Ra

Group meetings and coordination

- Trello
- Git and Bitbucket

Database

- MySQL Server 5.6
- PostgreSQL

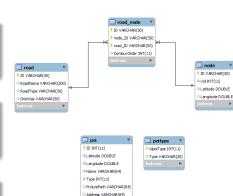


Figure: Database tables

C++ Implementation

Creating the map

The shortest path

Route path

Heuristics 1

Normalization and displaying

Selecting a route

Matlab implementation

- Data Structure
- Shortest Path

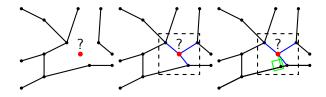
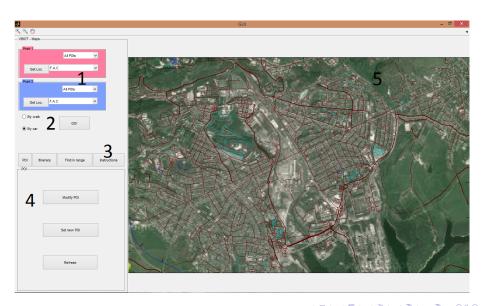


Figure : Finding the shortest point/projection for the random point on window domain

Graphical User Interface (GUI)

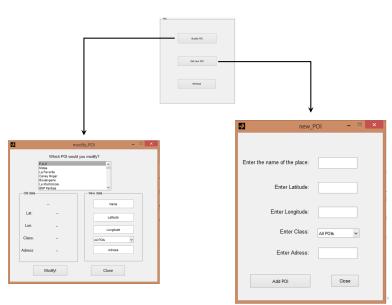


Insertion of points

- Point from a list
- Filter by class
- Get Location from the map
- Walk / Car
- GO!

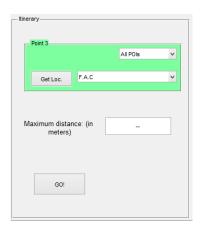


Manipulating Points of interest



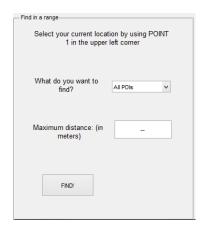
Itinerary

- Adding a third point
- Getting and storing the distance
- How it works
- Cost of time



Find in a Range

- Using Point 1 data
- Selection of classes
- Distance
- Slow process



Generation of the instructions

- Generating instructions from shortest path
- Setting a scroll bar
- Exporting this data
- Default text when missing data

