

Presentation

Project LO43 :

Shortest path application

Objectives

- Calculate the shortest path between two points of a map
- Zoom in and out
- Be able to choose the two points on the map
- Display the itinerary
- Display information about a particular point of the map

Architecture

- **MVC :**
 - **Model** : instantiation of the different objects, Dijkstra algorithm implementation...
 - **View** : interface (panels, buttons...)
 - **Controller** : listeners
- Divided into 3 Java packages

Implementation

- Choose the two points on the map with the mouse and the combo box
- Zoom in and out with the scroll wheel and the buttons
- Information about the point (contextual menu)
- Extraction of the itinerary (menu bar)

Tools

- Java Swing for the interface
- SVN
- ArgoUML
- IDE Eclipse

Improvements

- Load a piece of the map (better performance)
- Multiple points itinerary
- Edit the unit system
- Extract zone through Lambert II coordinates

Conclusion

- Good project
- Use of the POO concepts
- Java, Swing, MVC, Eclipse...
- Team work