Abstract

At MobiGIS [1], GIS and Transport software publisher and geomatics services company, I joined the Research & Development « MobiSAAS » project.

My internship subject focused on developing web services that exposes functionalities of road and transit data import, for the automatic build of multi-modal transport networks.

The purpose of my work was to expose functionalities originally coded in SQL and/or Python languages via a REST API in Java (JAX-RS). I therefore managed the business treatment (Python) and learned to handle data (PostGIS/SQL) via the « DataWizard » project. In the same time, in order to implement these web services I joined the « MobiSAAS » project and thus learned to develop with the « Dropwizard » framework.

The developed application of this project is similar to a SAAS [2], the main features of MobiAnalyst Desktop software. It is in the context of the administration interface (backend) that I developed features to upload transit data (GTFS [3]). The prospects of my work will be to generalize the utility classes and methods I have developed so that the application may support multiple data formats of transport data (vector data « Shapefile » for example).

During this internship I have worked on several projects : MobiSAAS, DataWizard, Crislab, etc. This way, I participated in various phases of software development lifecycle : from the design (R&D) to development of business code, until the delivery to the customer.

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1. http://www.mobigis.fr/
2. https://en.wikipedia.org/wiki/Software_as_a_service
3. https://developers.google.com/transit/gtfs/