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ESILV A4-ISN

User client for Ottawa Construction Permits Database

Software Requirements Specifications

# Purpose and goals

The purpose of this software is to provide user-friendly access to a permit construct database. It must, at least:

* Provide an import module.
* Provide an easy and straightforward way to do requests.
  + With specific requests (AON answers)
  + With textual requests (score-based answers)
* Answer the requests of the user with reliable and solid answer.
* Display the relevant data in a comprehensive view.
* Display statistics of the database.

It may:

* Give the reliability of the request and warn the user if it’s too low.
* Provide a user-friendly way to Insert/delete/update Data
* Provide a way to research data with coordinate (e.g.: Permits delivered in a 20km area).
* Display the geographical data on a map
* Display graphics and charts.

# System Architecture

The software solution is developed on Java 8 SE Update 60. The target platforms are: TOBECOMPLETED.

Is used with this software (needed for the software execution):

* MongoDB 3.0.7 (Windows 64-bit 2008 R version during development)
* ElasticSearch 2.0.0

The API used are:

* Swing: for GUI. (*javax.swing.\**) (included as basic)
* Junit: for testing (version 4.12, see pom.xml)
* MongoDB driver (version 3.1.1, see pom.xml)
* ElasticSearch Java Integration (version 2.0.0, see pom.xml)