Visual Interface for WiFi Networks Monitoring

PILOT CHARTER

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Pilot Purpose.

The principle purpose of my pilot is to develop an application that shows the location and current statistics of usage for public Wifi and Sensor networks.

Pilot Objectives and Success Criteria.

- Fully functional application showing the location and Statistics of public Wifi Networks.
- Statistics will be performed with the real-time data collected from the IT Networks.
- Application have to be able to access, the 80% of times, to real-time data from IT Networks.

High-level requirements.

- Development of the application with a visual interface with the location of the IT Networks.
- Recollection of the data from the IT Networks.
- Generate statistics for IT Networks.
- Display of the data from the IT Networks.

High-level pilot description.

The principle purpose of my pilot is to develop an application with a visual interface with the location of the IT Networks. It will be displayed too, statistics of usage, coverage and downtime of IT Networks. It will be done with SDI, Spatial Data Infrastructure (IDE in Spanish). This pilot will be done with he cooperation of IMI (Institut Municipal d'Informàtica).

High-level risks.

- SDI programming: Never did before.
- Time: The control of time is a priority. The steps have to be executed on its time.
- Data: Availability to collect the necessary data.

Summary milestone schedule.

1. Planning: Review all requirement, and evaluate how and when do it and It's duration.

2. Documentation: How to develop a code of SDI Application. What I need to know? What tools are needed?

3. Development of the code:
   a. SDI application. Where the IT networks location will be shown.
   b. Access to de real-time data from IT Networks.
   c. Data Base, where all data will be processed to get statistics.
   d. Access to Data Base from the application.
   e. Show statistics of each IT Networks in the application.

4. Testing. Resolve bugs and improve the application.

5. Review that all requirement are satisfied and all goals are achieved.

6. Document all this process in a Project memory.

7. Present the result.

Summary budget:

- Student Grant: 3.240,00€
- Travel and accommodation costs: 200-300€(Reason: Assist to meetings and conventions).