Functional Requirements Gathering

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ppyordanov edited this page on Oct 20, 2014 · 10 revisions

This section holds information from the requirements gathering meeting on 08.10.2014:

Building a dynamic pollution and noise campus map using the Smart Citizen Kit

(functional requirements gathering Q & A)

1. Should this be a client-server based application or can it be a single, standalone mobile web application using local data storage? How flexible is the framework choice?

- a client-server based system (a web application server and a mobile application client)
- flexible framework choice, some alternative options provided

2. Is data plotting flexible and if not, what are some guiding rules? - plotting noise and pollution on the same map /overlapping/ - representation style – colour-coded blocks, gradient map(heat map style), etc.

- flexible visualization techniques
- will be good to use multiple visualization styles/models

3. Is colour-coding enough to represent data or can there be added numerical values for more detailed interface?

- good idea to experiment with different visualisation arrangements in order to iteratively refine the final interface

4. Is route generation and manipulation a prime task or can be defined as consequential after the initial campus map generation?

- a COULD HAVE requirement which needs to be implemented after the basic campus map functionality is present

5. Is ranking the input entities feature that users can have voting impact on or it could be entirely dependent on device readings?

- can be incorporated as a WOULD (would be nice to have) feature

6. Would you consider a good idea presenting some wider statistical data to the user as a potential feature?

- yes, a COULD/ WOULD HAVE functionality that will improve the overall performance of the application

7. Currently the device transmits data once every 60 sec. (1 minute). Do you think decreasing this to get more accurate readings (considering the fact that the device is going to be moving) should be researched and is potentially viable for this project?

- if the firmware can be configured to do this, yes

8. The device has sensors for Carbon Monoxide and Nitrogen Dioxide. Is there any particular requirement about how the readings for those two toxic chemicals for humans should be plotted on the map (for example – separately or as a single entity

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by adding up the values for instance; could incorporate different weights)?

- should be researched further
- add the values and if needed refine results by applying different weights depending on toxic effects

Dynamic Noise and Pollution Campus Map

University of Glasgow, School of Computing Science, 2014-2015