🔒 ppyordanov / **Dynamic-Noise-and-Pollution-Map**   PRIVATE

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Home

Edit   New Page

ppyordanov edited this page on Jan 28 · 38 revisions

Welcome to the Dynamic-Noise-and-Pollution-Map wiki!

Functional Requirements Gathering: link

> The functional requirements have been well documented on the repository, accompanied by their non-functional equivalents.

Functional + Non-functional + User Requirements: *(according to the MoSCoW rating scale)*

- *MUST*

  - Generate and visualize sample data: link1 , link2
  - Sensor Data Location: link
  - Mobile Device Compatibility: link
  - Data Visualization: link

- *SHOULD*

  - Route Generation: link
  - Visualization Style: link

- *COULD*

  - Data Filters: link
  - Statistics: link

- *WOULD*

  - Additional Sensor Data: link
  - User Ratings: link

Use Cases:

> As posted here: link

Some possible use cases for the application:

- discover quieter areas on campus (to be used for outdoor/ indoor studying /i.e. exam revision/ or relaxation for instance)
- find the areas with least polluted air (for running, training of any form or just for leisure activities in general)
- identify routes suitable for strolls (around Kelvingrove park for example, which is in close proximity to the university campus)
- help users who would like to meet new people in the cases when increased noise levels correspond to crowded venues
- could also be useful for Glasgow City Council and help them evaluate the technology and apply it to improve city life in general
- serve as a foundation for more similar university research/software engineering projects
- serve as a ground base and aid the further development of the innovative kit

Diagrams:

Pages 25

Find a Page…

Home

DBMS

ER Model

Final Report

Framework Diagram

Functional Requirements Gathering

Gantt Chart

Progress Report 1

Progress Report 10

Progress Report 11

Progress Report 12

Progress Report 13

Progress Report 2

Progress Report 3

Progress Report 4

Progress Report 5

Progress Report 6

Progress Report 7

Progress Report 8

Progress Report 9

Retrospective 1

Sources Books

Sources Online

UML Class Diagram

UML Sequence Diagram

+ Add a custom sidebar

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- ER Diagram - link
- High-Level System Architecture - link
- Sequence Diagram - link
- UML Class *will be posted*

Reports:

Semester 1

- Report 1 - link
- Report 2 - link
- Report 3 - link
- Report 4 - link
- Report 5 - link
- Report 6 - link
- Report 7 - link
- Report 8 - link
- Report 9 - link
- Report 10 - link

Semester 2

- Report 11 - link
- Report 12 - link
- Report 13 - link

Dynamic Noise and Pollution Campus Map

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