

Pilot Evaluation 6-9.03.2015 #79

Open

 ppyordanov opened this issue an hour ago · 0 comments

Edit

New issue

PY

ppyordanov commented an hour ago

The pilot evaluation has been completed. Nasa TLX forms were used to track participants' feedback and they were all happy with the current state of the application. They all made important suggestions for improvement that have been implemented on the web application server and can be seen in the screenshots below:

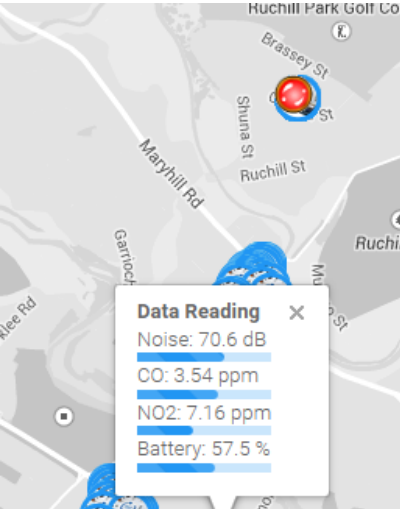
- Final DB state after pilot evaluation:

UGmap

Back To Droplet

```
2015-03-09 19:51:02 INFO HomeController:99 - Data Readings: 369
2015-03-09 19:51:02 INFO HomeController:100 - Routes: 76
2015-03-09 19:51:02 INFO HomeController:101 - Devices: 1
2015-03-09 19:51:02 INFO HomeController:102 - Users: 1
```

- Tracking user location:



- Automatically populate current location:

Labels

Milestone

Evaluation

Assignee

PY ppyordanov

Notifications

Unsubscribe

You're receiving notifications because you were assigned.

1 participant

PY

Lock issue

Journey Planner

Starting Point

Place: Hillhead High School

Latitude: 55.874265

Longitude: -4.2854469999999765

Destination

Place: building

Latitude: lat

Longitude: lng

Route Statistics

- ☒ Distance
- ☒ Duration
- ☒ Noise (average dB)
- ☒ CO (average ppm)
- ☒ NO2 (average ppm)

The starting point of your journey is the building on Glasgow University Campus that you are closest to at the moment. It has been automatically determined to improve query efficiency and can be changed. The destination point can be typed in manually (using the assistance of the auto-complete functionality) or you can tap anywhere on the map to select the closest matching building on campus. Latitude and longitude values are also populated automatically to show the location accurately. When you reach your destination, the application will let you know!

- Automatically populate destination on map click:

Journey Planner

Starting Point

Place: Hillhead High School

Latitude: 55.874265

Longitude: -4.2854469999999765

Destination

Place: Saint Andrew's Building

Latitude: 55.871514

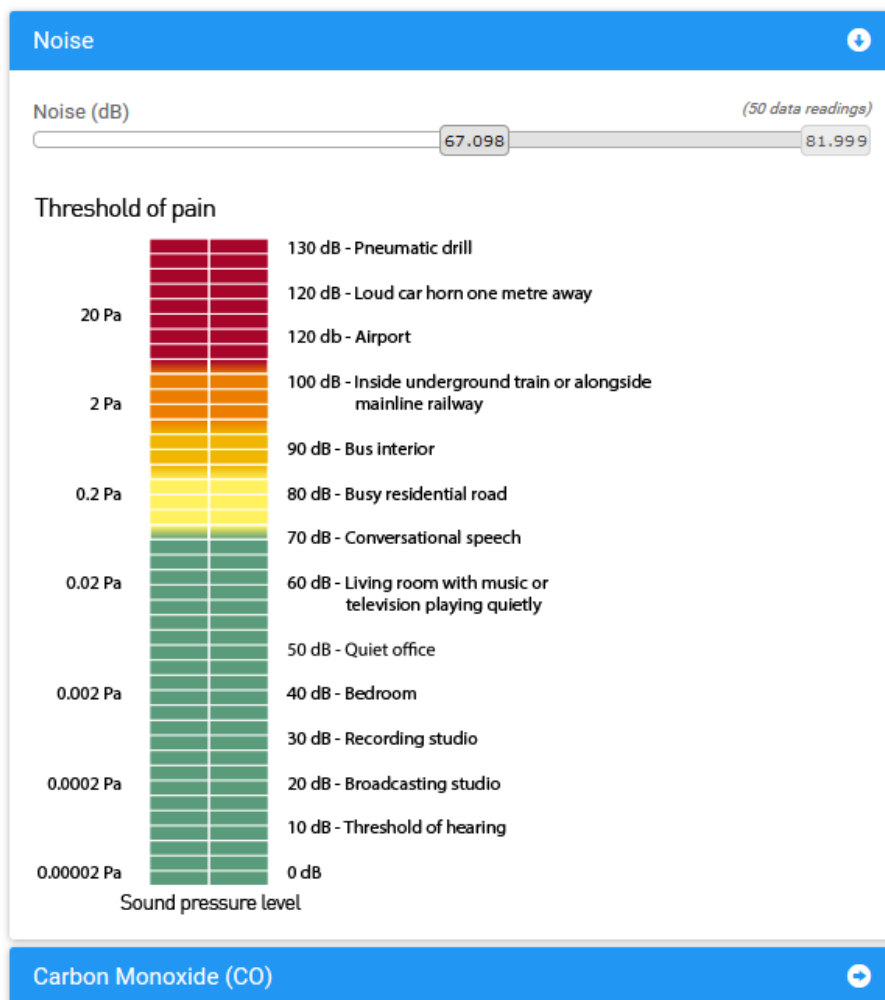
Longitude: -4.2794149999999972

Route Statistics

- ☒ Distance
- ☒ Duration
- ☒ Noise (average dB)
- ☒ CO (average ppm)
- ☒ NO2 (average ppm)

- Variable safe levels tables added to front-end:

Please configure the map using the sliders below:




- Start/stop tracking current user location functionality added to server:

Locations

This application tracks your geo-location as you move. You can track your location by using the red dot on the map as well as disable and enable this functionality via the buttons below. You are currently closest to:

Hillhead High School



Latitude: 55.874265
Longitude: -4.285447

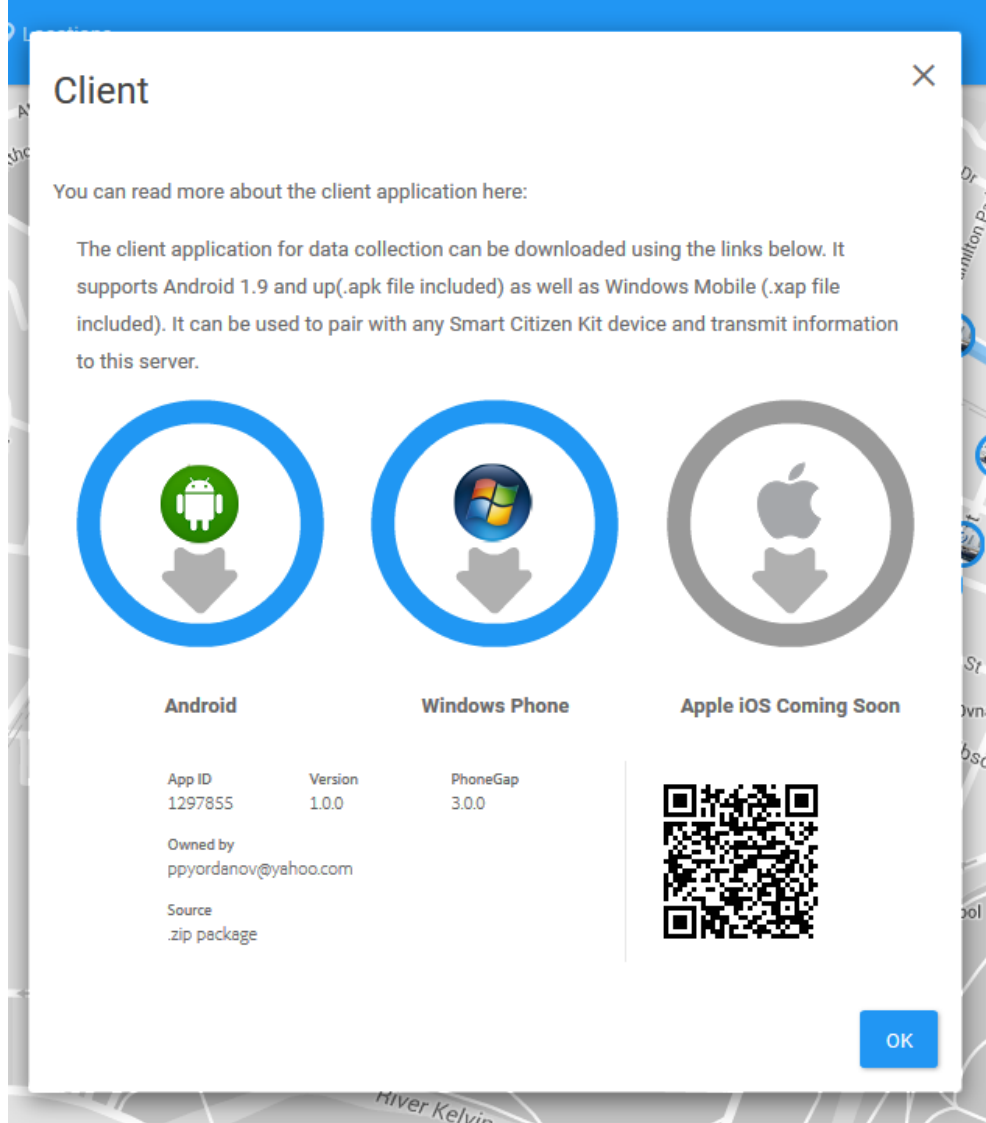
[VIEW](#)

[START TRACKING](#) [STOP TRACKING](#)

Browse university campus locations below:

- [Adam Smith Building](#)
- [Anderson College](#)
- [BHF Cardiovascular Research Centre](#)

- Client download links included in 'Client' page:



- 'SCK' and 'About' pages completed and instructions how to operate the user interface added in all pages:

About



It is important that both students and staff are aware of the air quality and levels of noise around the university campus in order to allow them to know where the most appropriate places to walk and study are. Building a dynamic map of the campus that can aggregate information about air pollution (in PPM, parts per million) and noise (decibels) while at the same time educating users what the normal values for these variables (noise and NO₂, CO, the main air pollutants) is a good solution to this task. The features that the startup kit provides make it a very suitable product for this project's needs.

It has been used as a portable probing device paired with a mobile device's GPS sensor in order to generate a dynamic campus map that is flexible and intuitive to use. One of the possible use cases is suggesting quiet and clean air routes to end users. The final project deliverable is a mobile application and a backend infrastructure.

The project makes use of the client-server software engineering paradigm allowing system users to consult the application whenever they need environmental data information and also improve it by participating in the data collection process (provided they have access to a Smart Citizen Kit).

The software system has been evaluated by recruiting volunteer participants to collect environmental data and test the mobile web application.

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OK

Note: final evaluation should commence around the end of this/ start of next week.



ppyordanov added the **evaluation** label an hour ago



ppyordanov self-assigned this an hour ago



ppyordanov added this to the **Evaluation** milestone an hour ago

PY

Write

Preview

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Attach images by dragging & dropping, [selecting them](#), or pasting from the clipboard.

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