PRESENTING LOCAL AIR QUALITY DATA TO THE GENERAL PUBLIC

Evaluation

Progress

Risks

Timeline

Aim

Motivation

[{"Sensor Name":"PER_EMOTE_2406","Location (WKT)":"POINT (-1.617349 54.979455)","Ground Height Above "Sensor Height Above Ground":2.0,"Broker Name":"Emote Air Quality Sensor","Third Party":false,"Senso tude":-1.640834,"Sensor Centroid Latitude":54.977566},{"Sensor Name":"PER_AQ_AQ_MESH1957150","Locati 4.981944)","Ground Height Above Sea Level":56.8100013733,"Sensor Height Above Ground":2.0,"Broker Na lse,"Sensor Centroid Longitude":-1.606514,"Sensor Centroid Latitude":54.973793},{"Sensor Name":"PER_ INT (-1.62306949059505 54.9689755367164)","Ground Height Above Sea Level":40.8521963461,"Sensor Heig :3.5,"Broker Name":"Emote Air Quality Sensor","Third Party":false,"Sensor Centroid Longitude":-1.622 Centroid Latitude":54.96887},{"Sensor Name":"PER_AQ_AQ_MESH1756150","Location (WKT)":"POINT (-1.6171 sor Height Above Ground":2.0,"Broker Name":"aq_mesh_api","Third Party":false,"Sensor Centroid Longit or Name":"PER_AQ_AQ_MESH1762150","Location (WKT)":"POINT (-1.611006 54.973198)","Ground Height Above r Name":"aq_mesh_api","Third Party":false,"Sensor Centroid Longitude":-1.614074,"Sensor Centroid Lat "PER_EMOTE_2604","Location (WKT)":"POINT (-1.618759 54.975987)","Ground Height Above Sea Level":57.8 ound Height Above Sea Level":48.0900001526,"Sensor Height Above Ground":2.0,"Broker Name":"AURN Sens Longitude":-1.618593,"Sensor Centroid Latitude":54.976586},{"Sensor Name":"PER_EMOTE_1708","Locatio ation (WKT)":"POINT (-1.62009000168201 54.9685529043185)","Ground Height Above Sea Level":39.1624636 nsor Height Above Ground":2.0,"Broker Name":"Emote Air Quality Sensor","Third Party":false,"Sensor C

Code from the Urban Observatory

Can anyone understand that text ?

My Motivations

- Present data to the public in a way **they understand**
- Understanding the data will allow the public to address the impact of global warning, **encouraging** them to change their behavior and attitude
- Investigate the **benefits** of **visualization**

"Climate change is no longer some far-off problem; it is happening here, it is happening now." – Barack Obama

Evaluation

Progress

Risks

Timeline

Aim

Motivation

Aim

Implement a web system that presents local air quality data from the Urban Observatory to the general public in a way to keep them engaged

Objectives

Evaluation **Progress** **Risks** **Timeline**

Aim

Motivation

1 Explore how local air quality data is currently presented

2 Explore the different techniques on how complex data can be presented to the public in a way they understand

3 Investigate the different visualisation software available

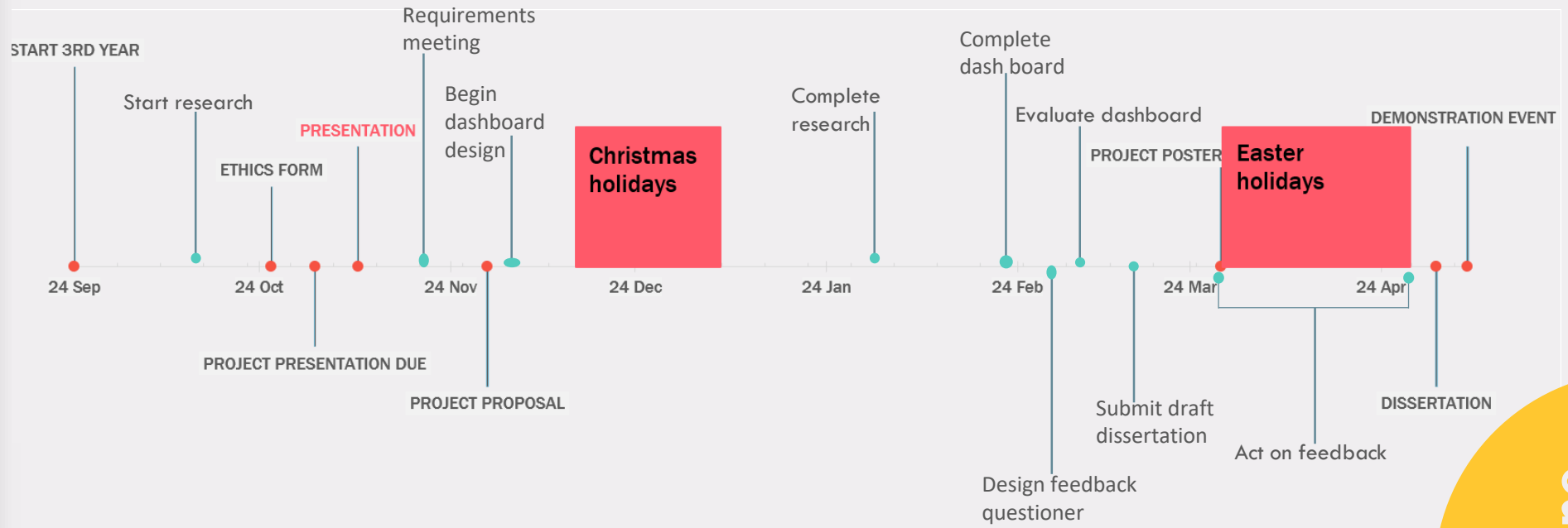**4** Develop a prototype which displays the latest information in an engaging format

5 Evaluate the effectiveness of how the data is displayed

1 Downloaded and reviewed the format of the data from the Urban Observatory

2 Researched what a JSON is and how to use it in a project

3 Began looking at data visualisation software

4 Started to explore how air quality data can be displayed

Evaluation

Progress

teams

Timeline

Aim

Motivation

5 Looked over different projects ran by the open lab- Arranged a meeting with Peter Wright to talk about how to present data affectively

6 Researched the 10 design principles by Nielsen

1 10 heuristics for user interface design by Nielsen

2 Feedback from the users:
- If the users were able to clearly understand the data presented
- If they found the data engaging and informative

Evaluation

Progress

teams

Timeline

Aim

Motivation

SUMMARY

1. My aim- Implement a web system that presents local air quality data from the Urban Observatory to the general public in a way to keep them engaged.

2. Going to follow the agile methodology

3. Get feedback from the users as early has possible so I have time to act on the improvements suggested