WORKING LOG FOR DUBLIN BIKES SOFTWARE ENGINEERING PROJECT

**06-03-17 MONDAY MEETING 1**

First meeting on setup of comms systems, JCDecaux, API, git

TASK BY FRI 10TH:

TAO: API, AWS services, FLASK

DM: Github, JSON

CD: Write backlog, set up group log system

Meeting Week 2

- Scrum

o Research

Backlog

Roadmap

Project plan

Security

- GitHub

o Set up account

o Research how to conduct branches.

o Understand gitignore with certain files if they are missing.

- AWS

o Tao to set up

Storage (RDB,S3)

- API

o Bike Data

Weather Data

Google Map

* API already done for JCDecaux

o AWS

- Virtual environment

o Each create for project work.

o Python

o SqlLite

FOR FRIDAY:

**COMMS SETUP//google docs**

**BACKLOG**

**SW DEVELOPER requirements**

**SW RUNNING requirements**

**09.03.17 Notes Meeting 2**

**Key Takeaways**

* **Develop user stories and basic design.** During a day session, develop in full all user stories. A basic paper and pen design should also be developed from this day session. *Can be achieved in sprint 1.* 
  + **Things to consider:**
    - Readers select days and time.
    - Not real data- plan a day ahead.
    - 7 days per week information.
    - Graph underneath (6am to 12pm??)
    - Integrate code .
    - Select day and time, use a scroll for hour of the day.
    - Same option in different times. Pick day and time.
* **Develop basic Flask webpage with parsed in static data.** - get a basic website running on flask. Have json data parsed into the website. Potentially include basic header/footer. (Take the shell from one of our semester one websites).
* **Develop algorithm to create sql database from static json file-** *Can be achieved in sprint 1.*
* **Design structure of database for sql database.** Two tables, one for static and one for dynamic. Must anticipate dynamic data. All primary, keys and foreign keys should be considered. - *Can be achieved in sprint 1.*
* **Create separate repositories for git.**

**To do**

Sprint 1.

* **Tao and Darragh**- Review the smartsheet, provide feedback to Cara.
* **Tao**- Develop basic Flask application to run.
* **Darragh** - Turn parsed data into a sqllite database.
* **All**- provide estimated times for completion of each task.
* **All**- Watch video tutorial on flask and all become familiar with the technology. Tutorial can be found here: <https://www.youtube.com/watch?v=Lv1fv-HmkQo&list=PLQVvvaa0QuDc_owjTbIY4rbgXOFkUYOUB>
* **Darragh-** Create Git repositories.
* **Cara-** Schedule next meeting together and next meeting with the teaching assistant.
* **Cara-** update spreadsheet.

For other items, see smartsheet excel sheet.

**14.03.17 Slack call** (Cara D and Darragh M)

* Discussion, feedback on Github structure, management
* Progress on database with Darragh. Choosing SQLite
* Trello feedback
* Next meeting is the 22nd of March with entire team and Product Owner, Satish Narodey.
* Sprint 1 will end on Friday, 24th of March. Review and retrospective to be scheduled.

**22.03.17 Meeting 3 Notes (Cara and Darragh)**

**Key Takeaways**

Darragh went through JSON/SQL database work, static data db, pushed DB files + doc to Git.

Sprint 2 is starting on Saturday, 25th March. Goals for Sprint 2: basic site displaying map and static data of stations. Site running on EC2, all DBs established. More goals to be determined in next meeting.

Need to get update on Tao’s progress and reassess backlog.

Tao nominated as next Scrum Master.

**Tasks assigned:**

**Cara:** Work on annotating google map, adding station icons, parse, display static data. Look at Chart API for displaying temporal dynamic data.

**Darragh:** Make basic html/css structure for site. Import weather API data for database, add weather to DB design.

**To do**

**For Friday, end of Sprint 1:**

Push map from weather project for webpage template (D)

Write up learning journals (all)

Update Trello board (Ca)

**Sunday Group Meeting:**

Detail all tasks in product backlog and give estimate times (all)

Write 5-10 user stories (all)

Designate tasks for completion in Sprint 2 and Sprint 3, set goals for Sprint 2 (all)

Summary of Sprint 1 as Scrum Master (Ca),

Review + retrospective, discussion improvements to dev process

**NEXT GROUP MEETING: SUNDAY 26TH MARCH IN UCD.**

**24.03.17 Online Meeting (2-3pm) (Cara, Darragh, Tao)**

**Key Takeaways**

Tao explained the work he completed while he was in China (no online comms). He was able to pull in static and dynamic data and display it on the website locally. When he migrated to EC2 the site would run but the website wouldn’t display. He can display static and dynamic data in tables on his site template. Tao and Darragh have separate site templates that need to be merged to have a single common site to work on.

Tao say he will look at a way to pull in dynamic data continuously with a script that runs on the EC2 constantly.

The database design needs to be updated to include the Weather API data. We need to consider the design/format of the dynamic table and how the data will be added continuously.

Displaying weather and aggregate data on site need to be considered (Weather API, Charts API).

How the information will be shown to the user needs to be decided. Site layout requires deciding how each value is displayed i.e. text, chart, graph, on/off map.

**To do**

**ALL:**

* + Write ~5 user stories
  + Detail all tasks in product backlog and give estimate times, Site Features, Database, AWS (all)
  + Designate tasks for completion in Sprint 2 and Sprint 3
  + Connect to Tao’s EC2 instance, set up security group, install AWS CLI in cmd
  + Write up learning journals
  + Commit all work to Github

**Cara:** Summary of Sprint 1 as Scrum Master, Chart API

**Darragh:** pulling Weather API data, include in DB design doc

**Tao:** pulling dyn data continuously, running a script on AWS

**Sunday Group Meeting:**

Review + retrospective, discussion improvements to dev process (all)

Collate user stories

Refine Product Backlog

Goals for Sprint 2

Dynamic data DB structure

**NEXT GROUP MEETING: SUNDAY 26TH MARCH IN UCD.**

**26.03.17 Meeting 3 Notes (Cara, Darragh Tao) – SPRINT REVIEW & RETROSPECTIVE**

**Key Takeaways**

**To do**

* **Main impediment:** Two tests on the 28th and 29th of March.

**29.03.17 Meeting 3 Notes (Cara, Darragh Tao)**

**Key Takeaways**

Each need to improve documentation and handling of backlog- particularly updating trello, learning journals and daily sprint logs. Many tasks are new and we’re learning as going, so backlog needs to be updated accordingly if new tasks emerge and are completed. Before Fridays meeting, focus on documentation.

AWS access is problematic for Cara and Darragh on windows.

Need a way to work offline on many aspects of the project without having to go through AWS to try data. Replicate database is best approach to handle this.

**To do**

* **AWS Access –** Cara and Darragh
* **Scrum Daily Update –** updating of daily stand-ups has slipped. Need to update the document.
* **Scrum Review –** Cara to update notes from sprint 1 review
* **Personal Journals-** All members to complete by Friday otherwise, won’t remember aspects from sprint 1.
* **Display weather on map:** Darragh to use sql database hosted locally to display weather on map.
* **Display stations on map:** Cara to use local sql database to display stations on map
* **Database replication:** Tao to develop a copy of the database in its current form so we can develop some data analytics info on the site. Can work locally then, and go live only when algorithms fully developed.
* **Hosting site:** Tao to research how as a project, the site will be hosted.

**Friday Group Meeting:**

* Seek guidance from Satish/Lecturer on how to handle the domain.
* Have first meeting with Satish, our demonstrator for the project.
* Work on itemised to do list from above.

**NEXT GROUP MEETING: FRIDAY 21 MARCH IN UCD.**