CITS3200 Team 4

Minutes of Meeting 6, held 3rd September 2024

Present: Katrina, Fred, Jack, Susheel, Bob, Lilee
Absent: n/a
Location: Online

Agenda Items:

I. Progress Reports (in relation to user stories)
II. Any updates from Jim
III. Discussion and Questions about Project
IV. Project Progress on project manager excel sheet, work done here?
V. Allocation of Tasks for this week, goals to get done
VI. Sprint 2 Deliverable discussion: Retrospective

5.1 Progress Reports

- **Fred and Jack:**
  - base station and raspi connected to tracker and practical test undertaken.
  - Modified code for the base station to upload minimal data to server.
  - Wrote code to transform code to GPX.
  - GPX seems more universal so we should aim to use that. GPX is basically XML and so its easy to understand.
  - GEOJson, while not technically wrong, may require two translations to get into the correct format.
  - Found great resources for integrating GPX into Folium.
  - GPX parser written.
- **Lilee and Susheel:**
  - Fixed current implementation of retrieve_from_container file, and data retrieval and display onto map
  - Ask: are we happy to hold one container for one search?
    - Most part yes
    - One container == entire search, one file from each base station
  - All containers from previous searches are put into a database
  - Container called search0: here, each base station would have a JSON file, each file would have its whole route it holds.
  - We are wanting to implement buttons to trigger and end a search which will be used to indicate when containers should be created or destroyed. When a search ends, we should pull data from the container and store it in the database.
- **Bob:**
  - Containers may be the way to go instead of using a database to store GPS data.

    - Keys for secure connection to server are also kept on Azure so that we can use the app without needing to publicly display the key.
    - Set up an Azure portal to host our flask app.
    - We need to push to the main branch of our repo and it will automatically be applied to the hosted site.
    - Needed to fork the original repo to allow this to work with the current user privileges of the repo. This may need to be reworked with Katrina.
    - Jim is not concerned with the domain name or the URL.
    - Website is now correctly hosted and is viewable through Azure.
    - Next working on SSO -> just waiting on the key from Jim.
    - He will talk to Jim tomorrow (04/09)
- **Katrina:**
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5.2 Updates from Jim

- Will get back to Bob tomorrow to get the SSO details.
- Will be good to formally with Jim and show him our progress.

- **Bob talking with Jim tomorrow about booking a formal meeting**

5.3 Discussion Points

- Can we have historical data stored in a database after a search has ended? Just so that we are not storing the data in the containers? Ideally we don't want to keep pulling latest data from historical searches as they are not going to be updated.

- **As a group** what do we expect to deliver by end?
    - Repo that goes
    - Can clarify with Jim, how would he like to package things up
    - ReadME file may be sufficient with repo
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5.4 Excel Sheet Project Progress

- Managed mainly by Bob and he will let us know if he requires assistance.
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5.5 Task Allocation (To be completed by next meeting)

Susheel and Lilee

- Collaborate with Fred and Jack on integrating.
- Looking into historical database functions.
- Look into websockets

Bob

- Keep working on Azure stuff
- Getting authenticator on front of site
- Look into better solution for web sockets, perhaps built in feature in Azure
- Look into solution for accessing things from github

Jack

- Mainly focussing on finer details with receiving JSON files and ensuring they are being transmitted correctly.
- Happy to keep working on refining GPX implementation.
- Happy to offer help to other sections if need be.
- Experiment with changing roles of trackers to client.-

Fred

- For base station:
- TODO 1: Upload additional data like AirUtilTx, under the "telemetry" in dictionary.
- TODO 2: Upload data to storage account container, coordinate with front-end people for method of upload:
- - Each search gets its own container, so base station must know the name of container.
- - Base station uploads the single self-titled .json file every time it gets a GPS update from it's tracker.
- TODO 3: Print meaningful error messages and data to a log file in the event of a crash.

Katrina

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