

WEEKLY REPORT and MEETING AGENDA

Report #:5
Date:3/21/2022

Project Name: vBox: Vehicle BlackBox
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Agenda for the weekly meeting

1. Ask about our parts
2. Talk about the design of our web app.
3. Establish connections between software front end and cloud database(back end).
4. Write a python script to connect automatically to obd port

Accomplishments during this period

1. Added different graphs and different attributes to the webpage. Added a side bar which will accommodate data for multiple trips. We can have up to 6 trips to show data for.
2. Created the lambda functions and corresponding API gateways to load data to front end.
3. Detailed the pseudocode script for assessing driving behavior based on points system.
4. Looked at the supported commands for the OBD port from which we can obtain data as well as the IMU.

Plans for next period

1. Christian will work with Lide to implement the data retrieval process from DynamoDB for the front end.
2. Lids work with Christian and Jose to upload data with correct format into cloud database, and work together with Jose to return the data from cloud to front end.
3. Prisha work with team to finalize the python script and use manual inputs to test its validity
4. Assemble the parts together if the parts can arrive by next period

Project management status

1. Regular meeting on Monday
2. Meet with Professor should there be any confusion and need for help
3. Regularly updated Google Shared Drive
4. Regularly updated project github
5. Critical Design Review due on March 29

Minutes from previous meeting

We went over the point system to determine the driver's behavior.

Discussed the possible dimensions of our box since parts are missing.

Demonstrated to the team how the raspberry pi obtains information from the obd port.

Discussed the changes to be made to the web app.

Lastly, as the parts are coming together on the Raspi, we will modify our hull design to begin solidworks preparation.

