

sdmay19-18: Real time Route Optimization

Week 2 Report

September 13 - September 24

Team Members

Junjie Wen — *Core Software/Algorithm Developer*

Zhanghao Wen — *Product Manager/Tester*

Yuhang Xie — *Backend Developer*

Xinhe Yang — *Frontend Developer*

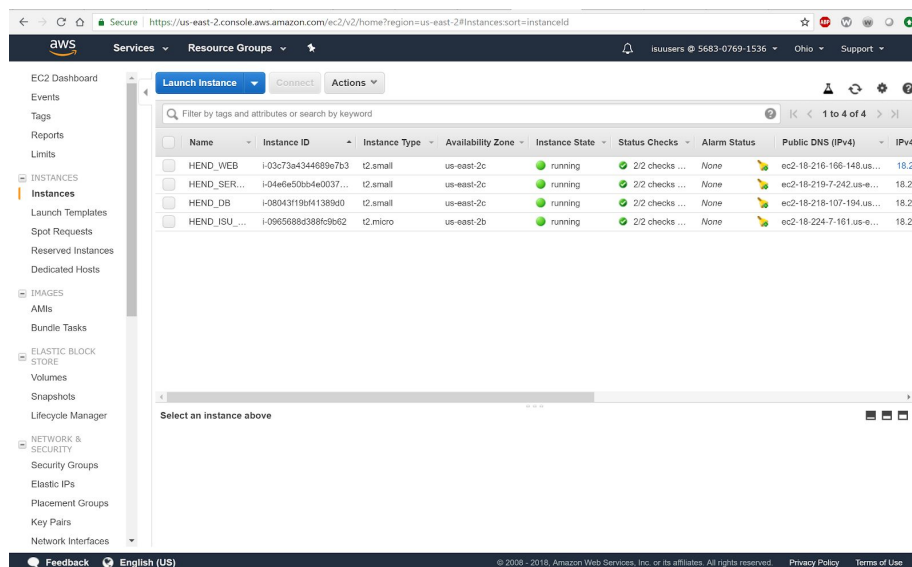
Tianhao Zhao — *Communication Leader*

Summary of Progress this Report

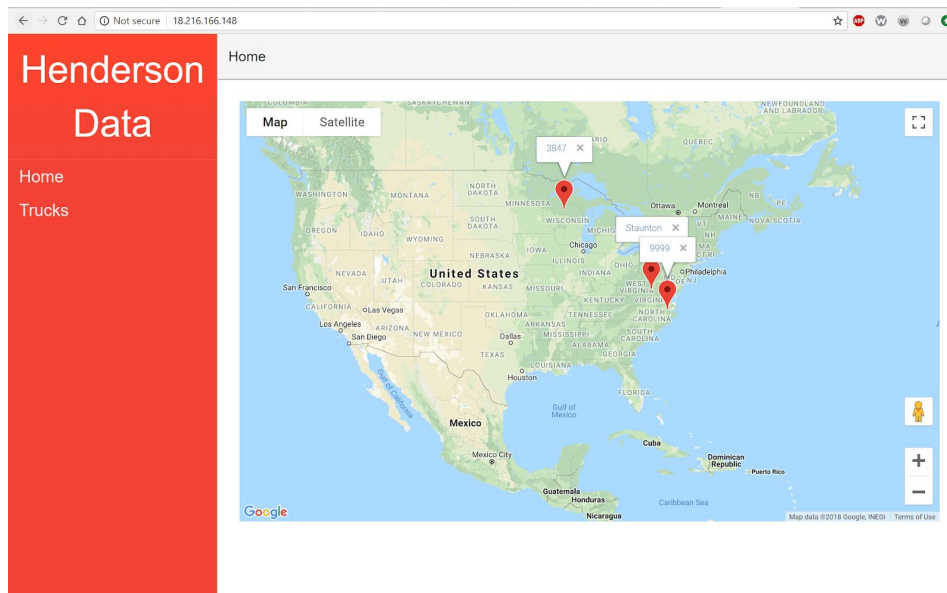
We got in touch with the client and got the AWS data service that the client gave us. In the conversation with the client, we have a better understanding of the needs and purposes of our project. We also talked with the advisor, who provided us with valuable suggestions and project requirements. We defined the basic setups and discussed the possible approaches for our initial attempt of implementation.

Past Week Accomplishments

We got the AWS service that the client sent us, and we learned about AWS services. The following figure is the information of the AWS service:



| Name | Instance ID | Instance Type | Availability Zone | Instance State | Status Checks | Alarm Status | Public DNS (IPv4) | IPv4 |
|-------------|---------------------|---------------|-------------------|----------------|----------------|--------------|--------------------------|------|
| HEND_WEB | i-03673a4344689e7b3 | t2.small | us-east-2c | running | 2/2 checks ... | None | ec2-18-216-166-148.us... | 18.2 |
| HEND_SER... | i-04e6e50b4e0037... | t2.small | us-east-2c | running | 2/2 checks ... | None | ec2-18-219-7-242.us-e... | 18.2 |
| HEND_DB | i-08043119d41389d0 | t2.small | us-east-2c | running | 2/2 checks ... | None | ec2-18-218-107-194.us... | 18.2 |
| HEND_ISU... | i-0965688d388f69662 | t2.micro | us-east-2b | running | 2/2 checks ... | None | ec2-18-224-7-161.us-e... | 18.2 |



Unfortunately, the client did not provide us with complete data, we found that the database on the server is empty, and we did not get any sensor data (this is the most important). After face-to-face with the client, we asked him about our project needs and doubts, including sensor data and project functionality. The client also promises that we will add sensor data to the database. This has helped a lot in our project. We are also looking for a reliable development framework for our projects and building a basic database. I think we have a better understanding of our project during our conversation with adviser and Client this week. We discussed the “simple display” functionality that the user can access the sensor data sent from trucks and GPS locations of them.

Pending Issues

1. There is no sensor data in the AWS server.
2. The data type of our sensor to build our own database.
3. Wait for the client to bring the temporary data to the server for us to test.

Plans for Upcoming Reporting Period

9/24 to 10/1

Individual Contributions

| Team Member | Contribution | Weekly Hours | Total Hours |
|--------------|---|--------------|-------------|
| Junjie Wen | Establish a database of the project AWS server, and ask the client to provide test data to our project. | 9 | 15 |
| Zhanghao Wen | Find relevant information. Worked on IOS and Android simulation tools on PC. | 8 | 14 |
| Yuhang Xie | Find a backend server framework suitable for our development | 8 | 14 |

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|--------------|---|---|----|
| Xinhe Yang | Tested and considered about the feasibility of many kind of framework. And decided to use ionic for our project finally | 8 | 14 |
| Tianhao Zhao | Responsible for getting in touch with the client and the advertiser, and providing us with their needs, opinions and resources for the project. | 8 | 14 |
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Gitlab Activity SummaryNothing to report.
