

# **EE/CprE/SE 492 BI-WEEKLY REPORT 1**

**1/25/21 – 2/7/21**

**Group number: 24**

**Project title: AI-VVO: Cloud-based Machine Learning for VOLT-VAR Control and Optimization**

**Client / Advisor: Gelli Ravikumar**

## **Team Members - Role:**

- **Abdul-Salem Adedoja - Frontend Development**
- **Ian Kegley - Frontend Development**
- **Jacob Gleason - Frontend Development**
- **Rene Chavez - Backend Development**
- **Tyler Norris - Backend Development**

## ○ **Weekly Summary**

- The overall objective of this past week was to begin reviewing some material that is necessary to continue forward in our project. With some of us reviewing we have also begun the process of establishing our HTTP connection from our frontend dashboard using the Django framework. We have also begun the process of creating our backend database for our project. As we are beginning to really dive into our application, we have yet to change any parts of our project but will do so starting this upcoming week.

## ○ **Past Week Accomplishments**

- Abdul-Salam: Made preparations for the better implementation and design for the frontend and user interface
- Ian: Created a web server using Django capable of handling http requests. Also created a frontend with ReactJS that can make POST and GET requests
- Jacob: Revisit/review 491 project materials to begin setting up the frameworks for the upcoming front end tasks
- Rene: Reviewed some overall material and tutorials to begin implementing our Backend framework and Machine Learning environment
- Tyler: Reviewed material from last semester and familiarized myself with the project

## ○ **Pending Issues**

- Abdul-Salam: Still having issues working with the dockers
- Ian: None
- Jacob: No pending issues at this current time
- Rene: Currently don't have any unexpected complications
- Tyler: Currently don't have any issues

○ **Individual Contributions**

<b><u>NAME</u></b>	<b><u>Individual Contributions</u></b> <i>(Quick list of contributions. This should be short.)</i>	<b><u>Hours this week</u></b>	<b><u>HOURS cumulative</u></b>
Abdul-Salam	Revisited 491 documents and materials to refresh knowledge on the project	3	3
Ian	Created Django webserver with ReactJS frontend	4	4
Jacob	Review 491 documents, revisit project/refamiliarize	3	3
Rene	Reviewed Machine Learning tutorials and started the Backend Database	3	3
Tyler	Reviewed 491 documents and revisited the project	3	3

○ **Plans for the Upcoming Week** *(Please describe duties for the upcoming week for each member. What is(are) the task(s)? Who will contribute to it? Be as concise as possible.)*

- Abdul-Salam: Begin proper implementation of communication between frontend and database and properly understand and make use of dockers
- Ian: Begin creating templates for each dashboardPanel
- Jacob: Work with the frontend team to begin the development of the frontend dashboard and other components
- Rene: Begin the required set up to begin using our backend database
- Tyler: Begin working on the backend

○ **Summary of Weekly Advisor Meeting**

- Our first weekly advisor meeting is scheduled for this upcoming Wednesday, February 10th from 4:30 - 5:30 pm
- We plan to begin designating tasks for following individuals and begin collaborating within our small group to complete specific tasks