

## **Deployment Design Decisions**

For deployment, we decided to host our API using the Django REST Framework on Heroku. We decided to use Django when we were tasked with creating an API with the Django REST framework for Assignment 2 and have since then fallen in love with it. It's easy to use and understand since it is coded in Python, and Django has a built-in SQLite database which makes storing information such as the light's state and mode, very easy and intuitive. After completion of our API, we then took to Heroku to host it on the web. We decided to do this for a few reasons. For starters, it allowed for our NodeMCU to pull data from the API from anywhere in the world, and on the flip side of things, it allowed for the it allowed for the whole team to interact with our work and get a feel for the delay in switching the light's state and seeing it change on the hardware end. Two, it was actually a lot faster (shorter delay) when Heroku as opposed to on a local network, and also a lot more convenient to run and use as opposed to running it everytime we wanted to change things on the Arduino side.