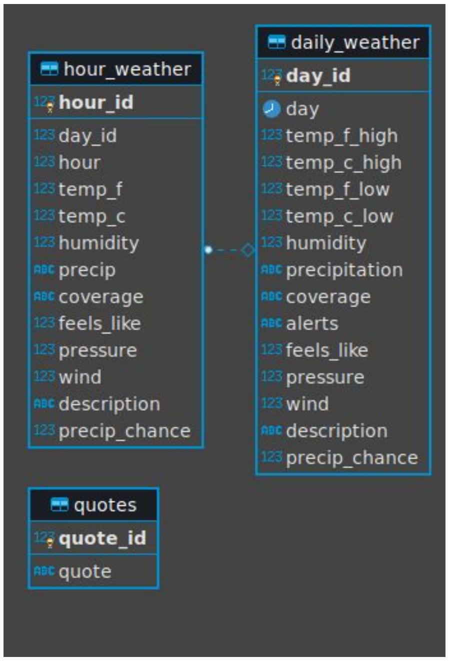
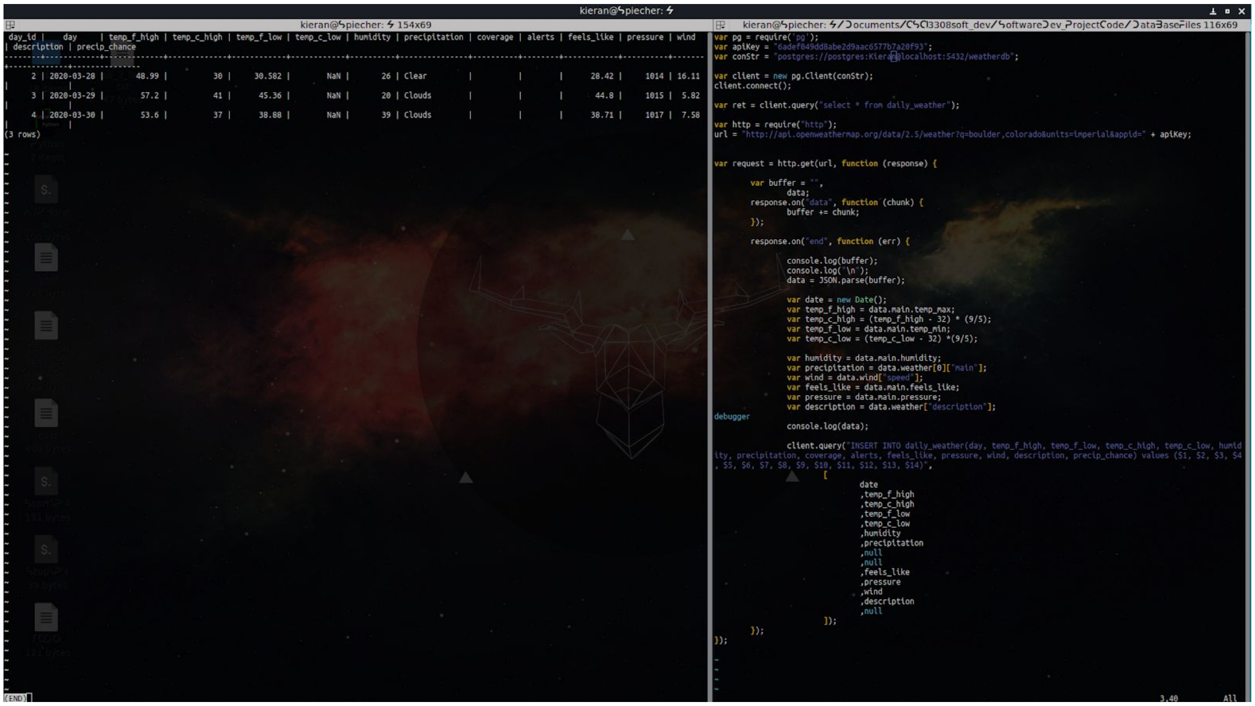
Project Milestone 3

We spoke with Keval on friday and we did not have anything fully completed to show him. He told us that we needed to get our database loaded with data and Implement a API code. Since then we have loaded our database with Historical weather data for Boulder colorado. Below are some pictures showing our database setup and implementation.

- 

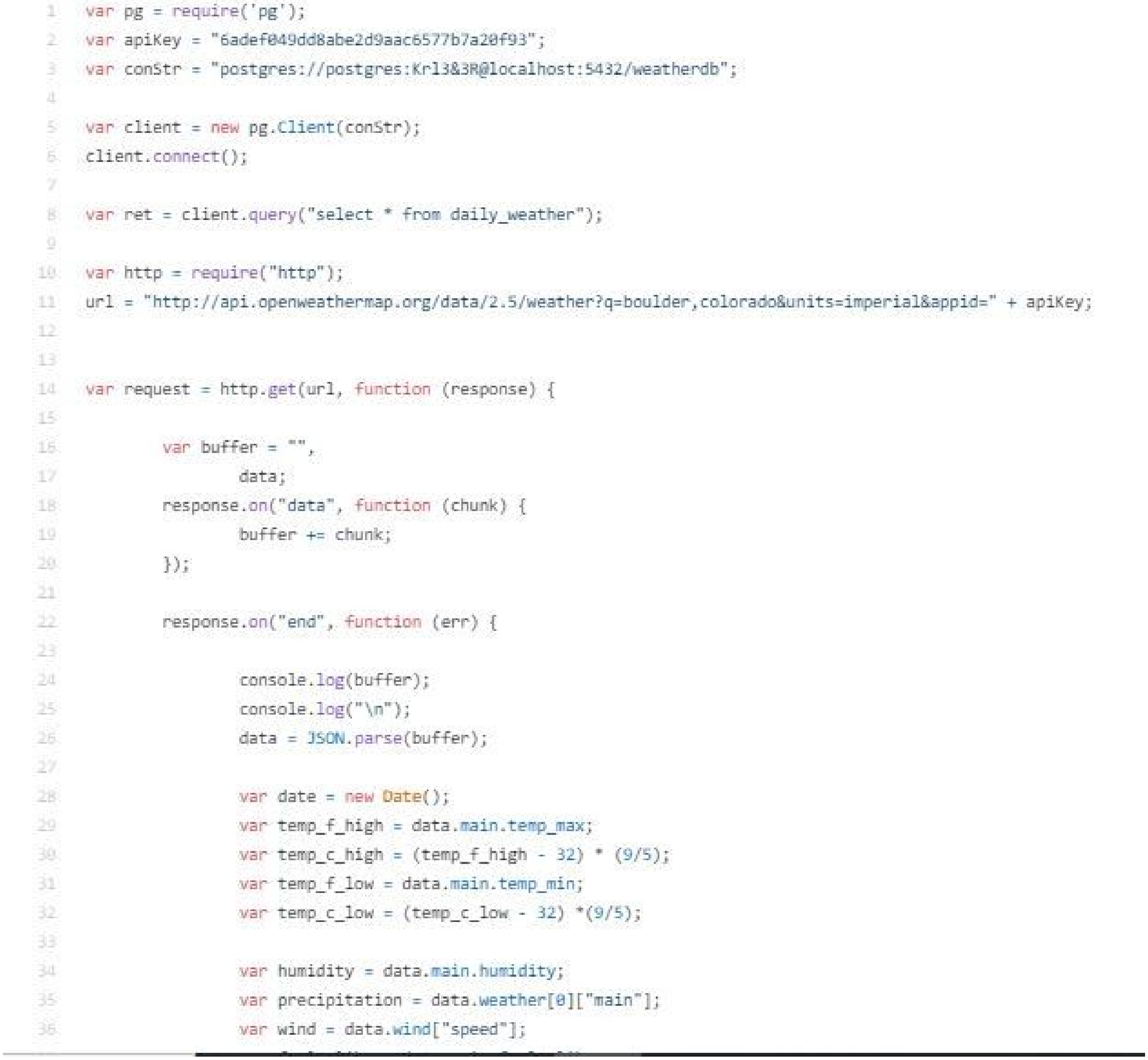
- 

kieran@ϟpiecher: ϟ
kieran@ϟpiecher: ϟ 154x69
kieran@ϟpiecher: ϟ/Documents/CSCI3308soft_dev/SoftwareDev_ProjectCode/DataBaseFiles 116x69

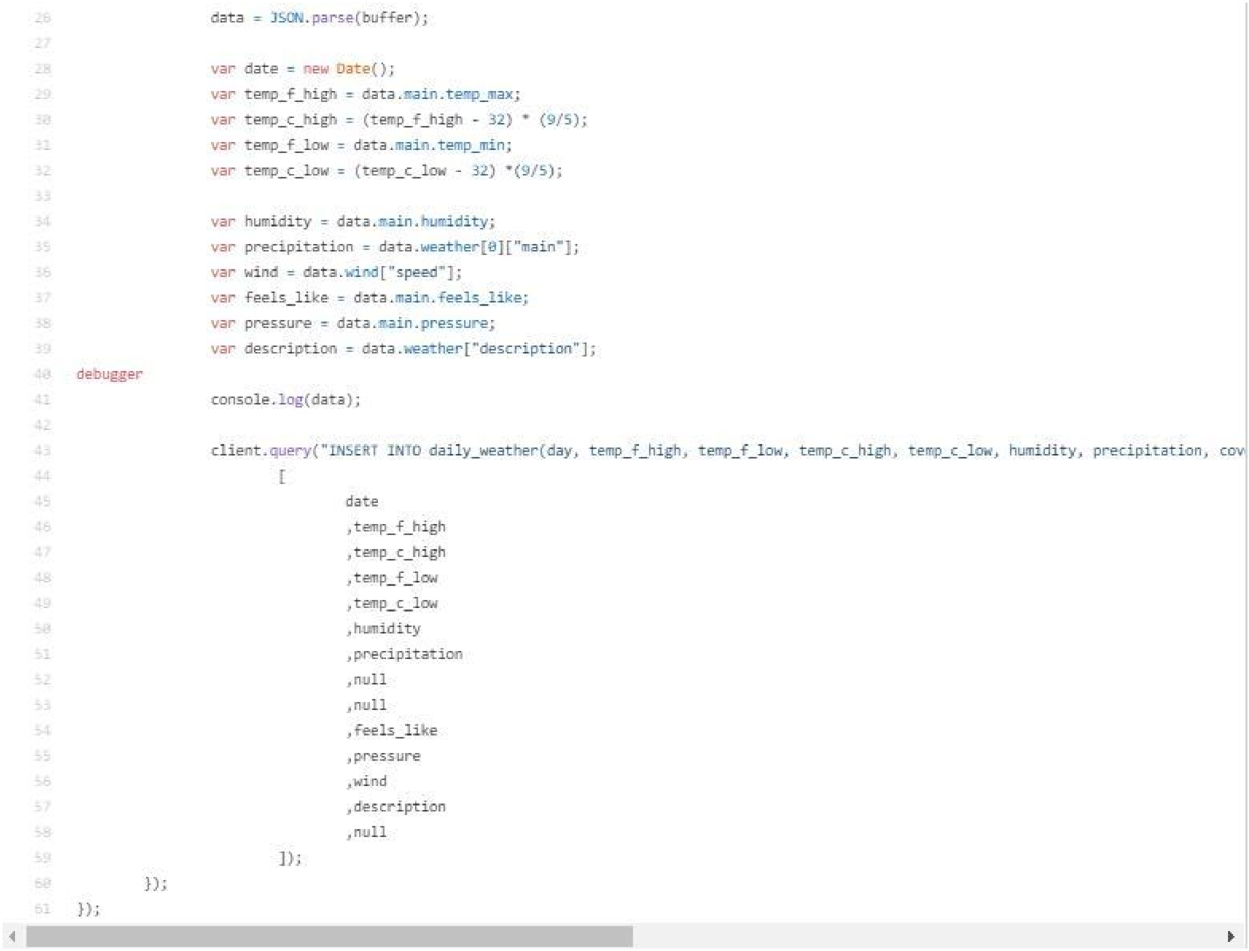
```
 day_id |    day     | temp_f_high | temp_c_high | temp_f_low | temp_c_low | humidity | precipitation | coverage | alerts | feels_like | pressure | wind
| description | precip_chance
--------+------------+-------------+-------------+------------+------------+----------+---------------+----------+--------+------------+----------+-------
+-------------+---------------
      2 | 2020-03-28 |       48.99 |          30 |     30.582 |        NaN |       26 | Clear         |          |        |      28.42 |     1014 | 16.11
|             |
      3 | 2020-03-29 |        57.2 |          41 |      45.36 |        NaN |       20 | Clouds        |          |        |       44.8 |     1015 |  5.82
|             |
      4 | 2020-03-30 |        53.6 |          37 |      38.88 |        NaN |       39 | Clouds        |          |        |      38.71 |     1017 |  7.58
|             |
(3 rows)

~
(END)
```

```
var pg = require('pg');
var apiKey = "6adef049dd8abe2d9aac6577b7a20f93";
var conStr = "postgres://postgres:Kieran@localhost:5432/weatherdb";

var client = new pg.Client(conStr);
client.connect();

var ret = client.query("select * from daily_weather");

var http = require("http");
url = "http://api.openweathermap.org/data/2.5/weather?q=boulder,colorado&units=imperial&appid=" + apiKey;


var request = http.get(url, function (response) {

        var buffer = "",
                data;
        response.on("data", function (chunk) {
                buffer += chunk;
        });

        response.on("end", function (err) {

                console.log(buffer);
                console.log("\n");
                data = JSON.parse(buffer);

                var date = new Date();
                var temp_f_high = data.main.temp_max;
                var temp_c_high = (temp_f_high - 32) * (9/5);
                var temp_f_low = data.main.temp_min;
                var temp_c_low = (temp_c_low - 32) *(9/5);

                var humidity = data.main.humidity;
                var precipitation = data.weather[0]["main"];
                var wind = data.wind["speed"];
                var feels_like = data.main.feels_like;
                var pressure = data.main.pressure;
                var description = data.weather["description"];
debugger
                console.log(data);

                client.query("INSERT INTO daily_weather(day, temp_f_high, temp_f_low, temp_c_high, temp_c_low, humid
ity, precipitation, coverage, alerts, feels_like, pressure, wind, description, precip_chance) values ($1, $2, $3, $4
, $5, $6, $7, $8, $9, $10, $11, $12, $13, $14)",
                        [
                                date
                                ,temp_f_high
                                ,temp_c_high
                                ,temp_f_low
                                ,temp_c_low
                                ,humidity
                                ,precipitation
                                ,null
                                ,null
                                ,feels_like
                                ,pressure
                                ,wind
                                ,description
                                ,null
                        ]);
        });
});

~
~
~
~
                                                                                                  3,40          All
```

Following that we also implemented some API code to work with our database and load it with data from https://openweathermap.org/api. This website allows us to pull current and past weather data so we thought that it was optimal to use.
Shown below is our api code:



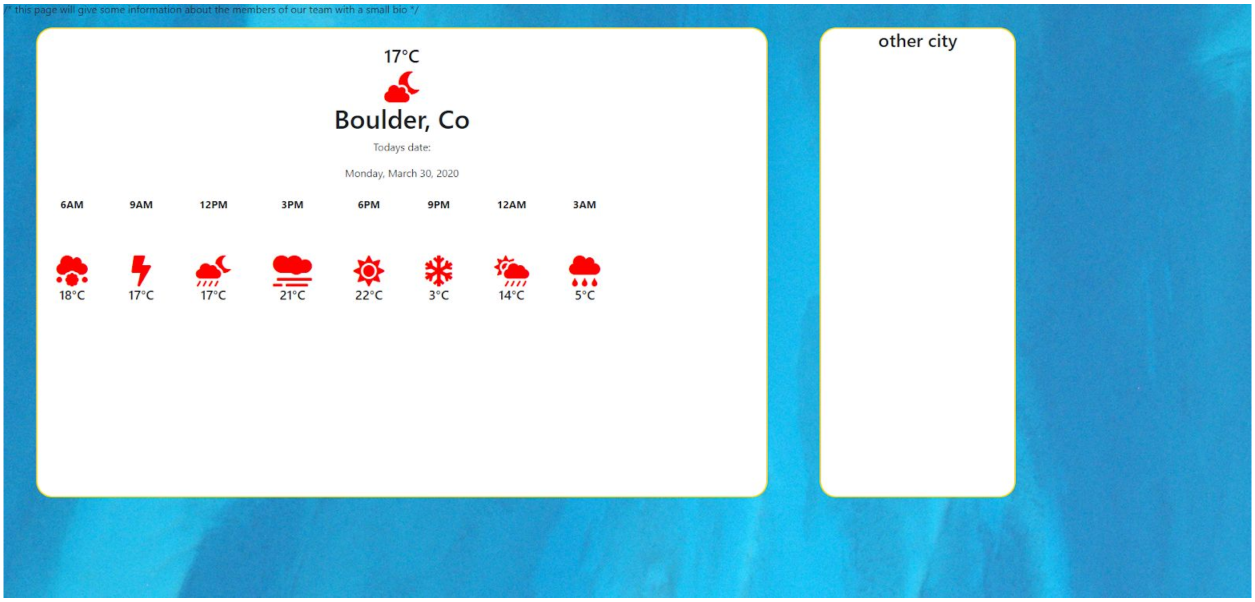
```
var pg = require('pg');
var apiKey = "6adef049dd8abe2d9aac6577b7a20f93";
var conStr = "postgres://postgres:Krl3&3R@localhost:5432/weatherdb";

var client = new pg.Client(conStr);
client.connect();

var ret = client.query("select * from daily_weather");

var http = require("http");
url = "http://api.openweathermap.org/data/2.5/weather?q=boulder,colorado&units=imperial&appid=" + apiKey;


var request = http.get(url, function (response) {

        var buffer = "",
                data;
        response.on("data", function (chunk) {
                buffer += chunk;
        });

        response.on("end", function (err) {

                console.log(buffer);
                console.log("\n");
                data = JSON.parse(buffer);

                var date = new Date();
                var temp_f_high = data.main.temp_max;
                var temp_c_high = (temp_f_high - 32) * (9/5);
                var temp_f_low = data.main.temp_min;
                var temp_c_low = (temp_c_low - 32) *(9/5);

                var humidity = data.main.humidity;
                var precipitation = data.weather[0]["main"];
                var wind = data.wind["speed"];
```



```
                data = JSON.parse(buffer);

                var date = new Date();
                var temp_f_high = data.main.temp_max;
                var temp_c_high = (temp_f_high - 32) * (9/5);
                var temp_f_low = data.main.temp_min;
                var temp_c_low = (temp_c_low - 32) *(9/5);

                var humidity = data.main.humidity;
                var precipitation = data.weather[0]["main"];
                var wind = data.wind["speed"];
                var feels_like = data.main.feels_like;
                var pressure = data.main.pressure;
                var description = data.weather["description"];
debugger
                console.log(data);

                client.query("INSERT INTO daily_weather(day, temp_f_high, temp_f_low, temp_c_high, temp_c_low, humidity, precipitation, cov
                        [
                                date
                                ,temp_f_high
                                ,temp_c_high
                                ,temp_f_low
                                ,temp_c_low
                                ,humidity
                                ,precipitation
                                ,null
                                ,null
                                ,feels_like
                                ,pressure
                                ,wind
                                ,description
                                ,null
                        ]);
        });
});
```

We are currently implementing a foundation for our ejs code as well as we will begin building our node server this week to tie all of our projects together. Currently our front page is being worked on simultaneously with our other web pages but i have included where they currently stand below.

Front Page:



/* this page will give some information about the members of our team with a small bio */

17°C

Boulder, Co

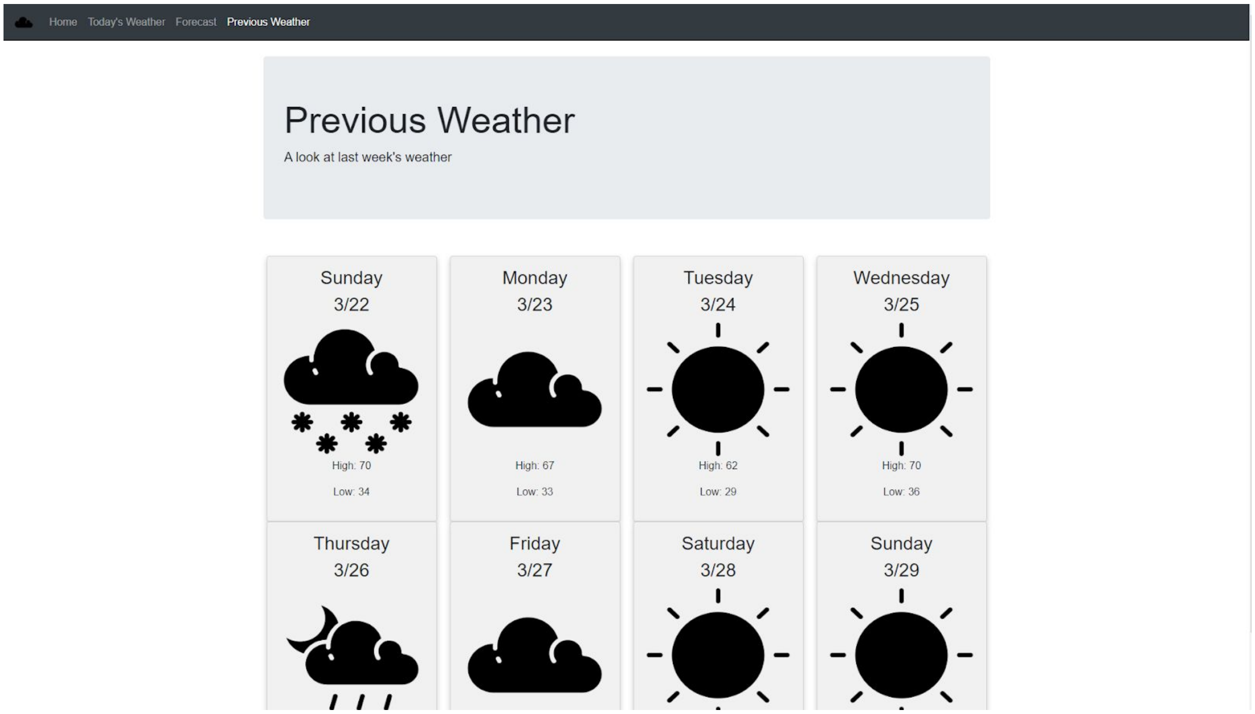
Todays date:

Monday, March 30, 2020

6AM	9AM	12PM	3PM	6PM	9PM	12AM	3AM
18°C	17°C	17°C	21°C	22°C	3°C	14°C	5°C

other city

Previous Weather Page:



Previous Weather

A look at last week's weather

Sunday
3/22
High: 70
Low: 34

Monday
3/23
High: 67
Low: 33

Tuesday
3/24
High: 62
Low: 29

Wednesday
3/25
High: 70
Low: 36

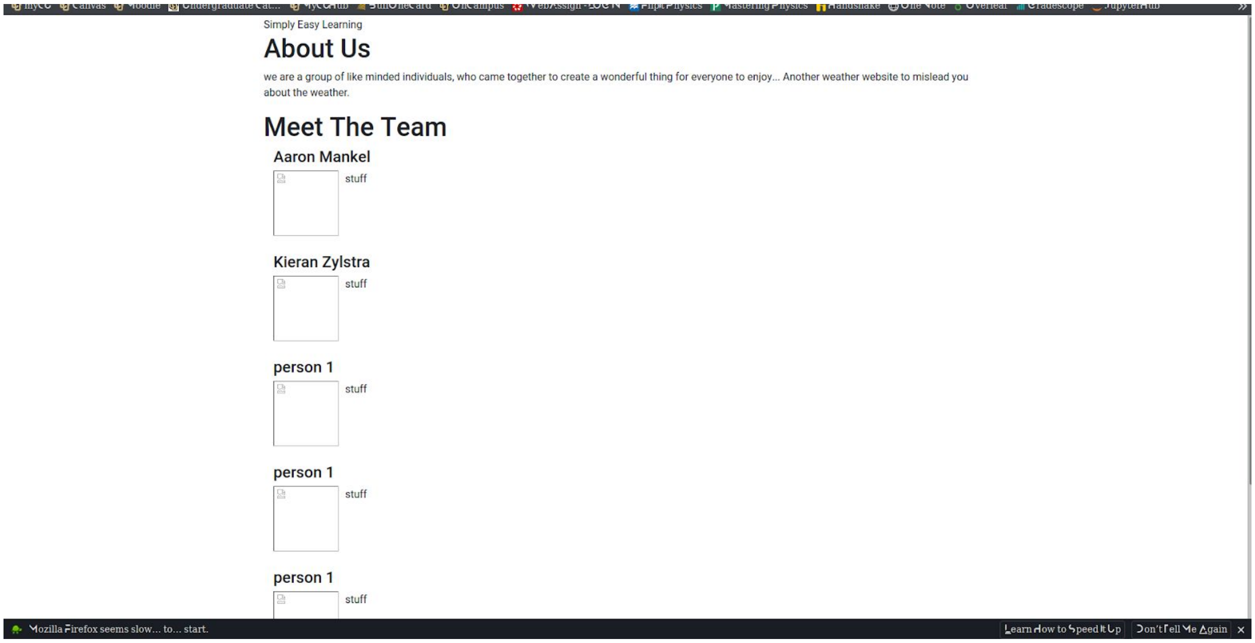
Thursday
3/26

Friday
3/27

Saturday
3/28

Sunday
3/29

About Us Page:

- 

Simply Easy Learning

About Us

we are a group of like minded individuals, who came together to create a wonderful thing for everyone to enjoy... Another weather website to mislead you about the weather.

Meet The Team

Aaron Mankel

stuff

Kieran Zylstra

stuff

person 1

stuff

person 1

stuff

person 1

stuff

As a group, we are struggling with meeting deadlines and cooperating all while completing quality code. To help combat this issue, we have switched up who is working on what features. During the past week we made great progress and hope to see it continue in the future. If we continue to have issues we will set a meeting with Keval to discuss methods to improve productivity and help us meet our deadlines.