# UML Class Diagram:

A screenshot of a cell phone

Description automatically generated

# Plan: (what?)

The goal of iteration three is to create a vue.js app that takes the electorate.json data and simply displays it on the web page after a button is pressed.

## Estimated time for each task:

|  |  |  |
| --- | --- | --- |
| Task: | Estimated time: | Actual time: |
| ? diagram | 30mins | 30mins |
| Write vue app | 30mins | 30mins |
| Write vue Electorate component | 30mins | 1hour |
| Get fetch to work | 30mins | 30 mins |
| Unit tests | 30mins | 3hours |

# Unit Tests:

A screenshot of a cell phone

Description automatically generated

The unit tests were an absolute nightmare this time around. I made the mistake of trying to use mocha instead of jest. Jest is able to get around the fact that node.js is client side by using mocks, in my case I wanted to test if my button was calling my getElectorateData when clicked, but getElectorateData uses fetch() which is not supported by node.js.

This isn’t a problem usually because this part is handled by the browser which does support fetch() but in these unit tests it does not work. Had I been using jest instead of mocha I would have been able to ‘mock’ the fetch() and have my test work. I tried for a long time, but I could not figure out how to swap my program over from mocha to jest.

I also tried using node-fetch instead but it was a quite broken module and relative url’s did not even work with it. I tried handing it an absolute path to my electorate.json file too but I couldn’t get that to work either. I didn’t want to go over 5 hours this time so I have left it at only a measly one unit test but I have commented out the other one I couldn’t get working with mocha for you to look at. There is also a stub for another test I would have done if I wasn’t about to pull my hair out.

# 

# Sequence diagram:

A screenshot of a cell phone

Description automatically generated

# Evaluation:

## Style report:

Using standard.js with prettier we have no problems.

A screenshot of a cell phone

Description automatically generated

# What happened vs what was planned:

The app works just fine, it is very simple and bare bones but that is because most of my time went into trying to force mocha and chai to work with vue the way I wanted and learning how to set up this vue project properly. If I hadn’t run over time on the unit-testing side of things then I would have formatted the json data to look a little bit more presentable. This was definitely a learning process and for iteration 4 I definitely will be using jest instead of mocha. Mocha was great for my iteration 2 project (honestly I like it a lot) because it was only node.js, it seems vue.js makes things a little bit more complicated and jest is more suited to it. I never thought a unit test would make me cry but here we are.