

## Group 38

### Legibility:

The variable names and methods were mostly easy to follow. I see some functions that are written to be a bit obfuscated, and perhaps some code that no longer does anything is left in. For example this function may have a few unneeded things,

```
function (c)
{
    var r = (d + Math.random() * 16) % 16 | 0;

    d = Math.floor(d / 16);

    return (c == 'x' ? r : (r & 0x3 |
0x8)).toString(16);
});
```

I'm wondering why d is added to the random number, if this adds anything beyond just randoming, and then also why d is changed. Is this just a way to re-seed the randomness because otherwise it returns the same number over and over. If so, comments might be helpful for this code. At a higher level, regex also seems a bit un-necessary to generate 16 random numbers and might be slower than it needs to be.

### Implementation

The code is written in a succinct way, as shown above there are some spots which could be cleaned up but overall the code is good. There are some useful abstractions. The files are well modularized, and individual functions that can be used without understanding the inner workings are present which is good abstraction. There are functions to create input fields from a JSON file for example.

### Maintainability

There are no unit tests, but at the scale of this project it doesn't seem necessary. Nevertheless the code seems overall to be maintainable, given my limited knowledge of things like JQuery it is hard to figure out if the code is written in a confusing way or if I just don't understand it. The part that is just javascript is well modularized and commented so it would be easy for a new developer to come in and begin working.

Some functions like this:

```
function
crownPercentageCheck_mortality() {

    let crownPct = $('#input#crown_percentage_m')

    let crownPctVal = Number(crownPct.val())
```

```
let mainStemVal =  
Number($('select#main_stem_m').val())  
  
if(mainStemVal === 2 && crownPctVal === 100){  
    setValidityMsg(crownPct, 'If main stem is 2 then  
crown % must be < 100%')  
}  
}
```

Are easily understandable and good.

### Requirements

The app seems to meet the requirements outlined in the requirements document. They had a stretch goal of data visualization but other than that they were successful in creating an app which allows servers to record data and have it be stored. They also have the discussed features like showing what the last data point for the same tree was in a helpful way while you are using the app.

### Other

The obvious one is putting the app on the app store so it is not so complicated to use, or to give instructions for the