TEST DRIVEN DEVELOPMENT REPORT

Why we chose this test?

The test we are reporting on tests if the calculation of coordinates for the map/search functionality are correct. We chose this test as it demonstrates the functionality of a complex algorithm which if implemented incorrectly would greatly affect the overall usability and reliability of the application. This test helped us greatly during our development as it allowed us to identify key issues with the map/search system, namely the confusion of which units we were meant to be using, miles or kilometres as the team had been using them interchangeably and no standard had been set prior to developing the test at the start of the week. The test helped us identify this issue and refactor our code accordingly.

Acceptance Test

We used an external tool to calculate the accurate coordinates and compared them with the result of the test in order to calculate whether our system was working correctly.

Evidence of tests and their uses

ProcedureList.test.js

HospitalSearchBar.test.js

HospitalMap.test.js

Card.test.js

```
PASS src/components/Card.test.js
  • Console
```

```
configure({ adapter: new Adapter() })


it('renders without crashing', () => {
    const div = document.createElement("div");
    ReactDOM.render(<Card key={1} card={{
        ProviderName: 'test driven development',
        DRGDefinition: 'testDefinition',
        GPDID: "GDPID Test",
        TotalPayments: 10909,
    }} ></Card>, div)
})

it('renders searchbar correctly', () => {
    function callBack() {
        console.log("called back")
    }
    render(<Card card={{
        ProviderName: 'test',
        DRGDefinition: 'testDefinition',
        GPDID: "GDPID Test",
        TotalPayments: 10909,
    }} ></Card>)
})


it("matches snapshot", () => {
    function callBack() {
        console.log("called back")
    }
    const tree = renderer.create(<Card key={1} card={{
        ProviderName: 'test driven development',
        DRGDefinition: 'testDefinition',
        GPDID: "GDPID Test",
        TotalPayments: 10909,
    }} ></Card>)
    expect(tree).toMatchSnapshot();
    // expect(true).toBeTruthy();
})
```

NewSearch.test.js

```
PASS src/components/NewSearch.test.js
```

```
configure({ adapter: new Adapter() })


it('renders without crashing', () => {
    const div = document.createElement("div");
    ReactDOM.render(<HospitalSearchBar></HospitalSearchBar>, div)
})

it('renders searchbar correctly', () => {
    function callBack() {
        console.log("called back")
    }
    render(<HospitalSearchBar></HospitalSearchBar>)
})


it("matches snapshot", () => {
    function callBack() {
        console.log("called back")
    }
    const tree = renderer.create(<HospitalSearchBar></HospitalSearchBar>)
    expect(tree).toMatchSnapshot();
    // expect(true).toBeTruthy();
})
```

ProvCard.test.js

```
PASS src/components/ProvCard.test.js
```

```
configure({ adapter: new Adapter() })

const card = {ProviderName: "test",
DRGDefinition: "test def",
GPDID: 69,
TotalPayments: 6969}

it('renders without crashing', () => {
    const div = document.createElement("div");
    ReactDOM.render(<ProvCard card={card}></ProvCard>, div)
})

it('renders searchbar correctly', () => {
    function callBack() {
        console.log("called back")
    }
    render(<ProvCard card={card}></ProvCard>)
})


it("matches snapshot", () => {
    function callBack() {
        console.log("called back")
    }
    const tree = renderer.create(<ProvCard card={card}></ProvCard>)
    expect(tree).toMatchSnapshot();
    // expect(true).toBeTruthy();
})
```

```
PASS src/components/CityBanner.test.js
PASS src/App.test.js

Test Suites: 9 passed, 9 total
Tests:       23 passed, 23 total
Snapshots:   6 passed, 6 total
Time:        10.099s
Ran all test suites.

Watch Usage: Press w to show more.
```