C219 Front-end Web Development

**Lesson 10**

**Problem** Statement

Singaporeans have been living with the Covid-19 pandemic for some time since the first confirmed case in January 2020. Because of this, it is crucial that citizens are provided a medium to access the latest information about the disease, number of daily cases, how to get vaccinated, and more.

You are a front-end web developer in a local news agency, The Lion Press, and you have been tasked to design and develop a **single-page interactive infographic** website about Covid-19 in Singapore.

Here are the website requirements:

* All content must be organised in sections using fullPage.js
* First section:
  + Header with website title and navigation to other sections
  + Information about the number of Covid-19 cases in Singapore
  + A chart displaying daily Covid-19 cases in Singapore for the past month
* Second section
  + Information on the vaccination progress in Singapore
* Third section
  + A map containing locations of vaccination centres in Singapore
  + Each location point must have a tooltip containing the centre name, address and phone number
  + An interactive table containing the list of vaccination centres in Singapore
* Apply animation or transitions to HTML content as much as possible where relevant
* You are allowed to use any CSS/JS library or framework

Website content is provided in **Covid-19 Data.docx**. Refer to the sample wireframe [here](https://xd.adobe.com/view/1d0c0b7d-2a6f-4e9a-a11d-3e6472581fd8-485f/).

**FAQ**

1. **How do I position my Bootstrap navbar at the top of a fullPage.js section?**

Use the fixed-top class.

Example:

<nav class="navbar navbar-expand-lg fixed-top">

1. **How do I place content side by side using Bootstrap?**

Use rows and columns.

Example: <https://getbootstrap.com/docs/5.1/layout/columns>

1. **How do I change the chart label colours in chart.js?**

const labelColor = {

plugins: {

legend: {

labels: {

color: "#ccc", // legend labels

}

}

},

scales: {

y: {

ticks: {

color: "#ccc", // y-axis labels

}

},

x: {

ticks: {

color: "#ccc", // x-axis labels

}

},

}

};

const config = {

type: 'bar',

data: data,

options: labelColor // add the options into your config

};

1. **How do I play an animation when I scroll to a section?**

Add the afterLoad property into your fullPage.js setup and use a function containing an Anime.js play method.

Example:

afterLoad: function (origin, destination, direction) {

// play animation after section 2 loads

if (destination.index == 1) {

s2.play(); // anime.js play method

}

}

1. **What is the best way to add the points and tooltips to the Singapore map?**

Edit the SVG file in Illustrator and draw the points on the map (for example, you can draw circles). Then, target the map points based on the <circle> classes to show the tooltips using Tippy.js.

1. **How do I set the default number of rows to be displayed on a DataTable?**

Example:

$('.centres').DataTable({

pageLength: 5,

});

1. **How do I style a DataTable?**

Inspect the element and use Chrome DevTools to find the CSS class to target.

Example:

table.dataTable tbody tr {

background-color: red; // table background color

}