**THEME 1: DYNAMIC MAP APPLICATION** 

Items	Instances
Consume the GET endpoint	Consumed 2 GeoJSON files
of an API, or consume a	<ul> <li>CHAS clinics</li> </ul>
CSV/JSON file	<ul> <li>Pharmacies</li> </ul>
Adding or removing DOM	Added description box of location when user clicks
elements to the display	on marker
(map, DOM tree, game	Added search suggestions based on user's input
screen) base on user's	Removed location tracking popup when user clicks
actions	on the toggle or close button
	Added "about us" popup when user clicks on
	"about us" in navigation bar
	Removed "about us" popup when user clicks on
	close button
Modifying the CSS of DOM	Toggle layers button expands and shrinks on click
elements based on the	Buttons and links changes colour when hovered
user's actions	over
	Buttons and links changes to cursor pointer when
	hovered over
Use of 1D traversal of array	Used for loops to add markers to Leaflet map
	Used for loops to retrieve details of clinics and
	pharmacies
	Used for loops to check if user's search input
	matches details of clinics and pharmacies
Each use of a unique	-
functional mapping method	
(map, reduce, filter)	
Each use of CSS layout	Used flex box to style navigation bar
technique (Bootstrap	Used flex box to style description box
columns, flex box, grid)	Used flex box to style search bar

	Used flexbox to style location tracking popup and
	about us popup
Each possible search or	Search bar provide immediate suggestions based on
filtering criteria in the user	user's key input
interface	Clicking on search button zooms user directly to the
	closest result
	Clinic and pharmacy layers can be toggled on/off to
	show the respective markers
Each case of the map	Clicking on search suggestions zooms user to target
updating base on the user's	marker depending on search input
actions	Clicking on search button zooms user to target
	marker depending on search input
	A Leaflet radius circle can be created when user
	clicks toggles the "show pharmacies within 500m"
	on/off
	Clicking on marker brings up description box
Each group of layers in the	• 3 layers
Leaflet map	o CHAS clinic layer
	<ul> <li>Pharmacy layer</li> </ul>
	o Circle layer
Each group of marker	2 groups of marker clustering
clustering	<ul> <li>CHAS clinic cluster</li> </ul>
	<ul> <li>Pharmacy cluster</li> </ul>
Each type of custom marker	Customized icon for clinic markers
(using images or custom	Customized icon for pharmacy markers
behaviour)	Customized icon for "you are here" marker
	Bind popup to all markers

## **BONUS SCORING**

Items	Instances
Consume the POST	-
endpoint of an API	
Use of 2D traversal of array	-
Use of custom sorting	-
algorithm (bubble sort,	
insertion sort etc.)	
Each extra feature	Current location tracking
	Text field validation in search bar (i.e. searching
	empty field, invalid input)
	Debounce in search bar
Use of model view	-
controller	
Single Page Application	Web page is done only using one index.html