

What is our GOAL for this MODULE?

We learned to render interactive maps on the web using the Mapbox GL JS library.

What did we ACHIEVE in the class TODAY?

- We learned to create a Mapbox account.
- We learned to render maps in web applications using the Mapbox GL JS library.

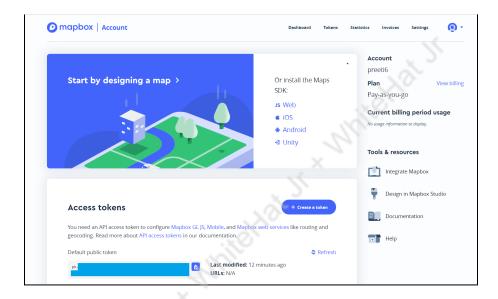
Which CONCEPTS/CODING BLOCKS did we cover today?

- Create Mapbox Account
- Mapbox API
- Map Object
- GeolocateControl and MapDirections control to the maps



How did we DO the activities?

- 1. Create Mapbox account:
 - Create Mapbox Account
 - Steps to Create Account Document



2. Include Mapbox API links (js and css) and other libraries (Bootstrap and jQuery) in the <head> tag of index.html.

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```
<!-- Mapbox -->
k href="https://api.mapbox.com/mapbox-gl-js/v2.1.1/mapbox-gl.css" rel="stylesheet">
<script src="https://api.mapbox.com/mapbox-gl-js/v2.1.1/mapbox-gl.js"></script>
```

3. Copy the "**Default public token**" from the Mapbox account dashboard and assign it to mapboxgl.accessToken property in **main.js file.**

```
// Initializing Mapbox
mapboxgl.accessToken = 'pk.
A';
```

4. Add the **Map** object.

```
// Initializing Mapbox
mapboxgl.accessToken = 'pk.

var map = new mapboxgl.Map({
});
```

5. Add the container option in the Map object.

```
var map = new mapboxgl.Map({
    container: 'map',
});
```

6. Set the map style.

```
var map = new mapboxgl.Map({
    container: 'map',
    style: 'mapbox://styles/mapbox/streets-v11',
});
```

7. Set the longitude and latitude variables and the centre options and zoom.

```
var map = new mapboxgl.Map({
    container: 'map',
    style: 'mapbox://styles/mapbox/streets-v11',
    center: [longitude, latitude],
    zoom: 16
});
```

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8. Add the map controls:

GeolocateControl

- i. Create a new **GeolocateControl** object using **mapboxgl** variable.
- ii. Set **positionOptions** and **trackUserLocation** parameters.

```
map.addControl(
    new mapboxgl.GeolocateControl({
        positionOptions: {
            enableHighAccuracy: true
        },
            trackUserLocation: true
      })
);
```

MapboxDirections:

- i. Create a new **MapboxDirections** object using accessToken.
- ii. Set the position of the control on the map.

```
map.addControl(
    new MapboxDirections({
        accessToken: mapboxgl.accessToken
    }),
    'top-left'
);
```



9. Test the output:

• GeolocateControl



MapboxDirections control



We learned to add GeolocateControl and MapDirections control to the maps using Mapbox API.

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PRO-C178



What's NEXT?

In the next class, we will learn how to get any location's longitude and latitude using the query parameters.

EXTEND YOUR KNOWLEDGE:

- You can refer to the link below to explore more about <u>A-Frame</u>.
- You can refer to the link to explore more about <u>iQuery</u>.
- You can refer to the link to explore more about Mapbox API.