

CURRENT LOCATION & QUERY PARAMETERS



What is our GOAL for this MODULE?

We learned to write JavaScript functions to get the current location of the user and use query parameters to pass data from one page to the other.

What did we ACHIEVE in the class TODAY?

- We learned to write JavaScript functions to get the current location of the user.
- We learned to use query parameters to pass information from one page to another.

Which CONCEPTS/CODING BLOCKS did we cover today?

- `navigator.geolocation.getCurrentPosition`
- `$(document).ready()`
- `map.addControl()`
- on click function
- `window.location.href`, `window.location.search`, `URLSearchParams()`, `window.history.back`
- `split()` String method

How did we DO the activities?

1. Create a function **initGeolocation()** in main.js file.

```
function initGeolocation() {  
    if (navigator.geolocation) {  
  
    } else {  
        alert("Sorry, your browser does not support geolocation services.");  
    }  
}
```

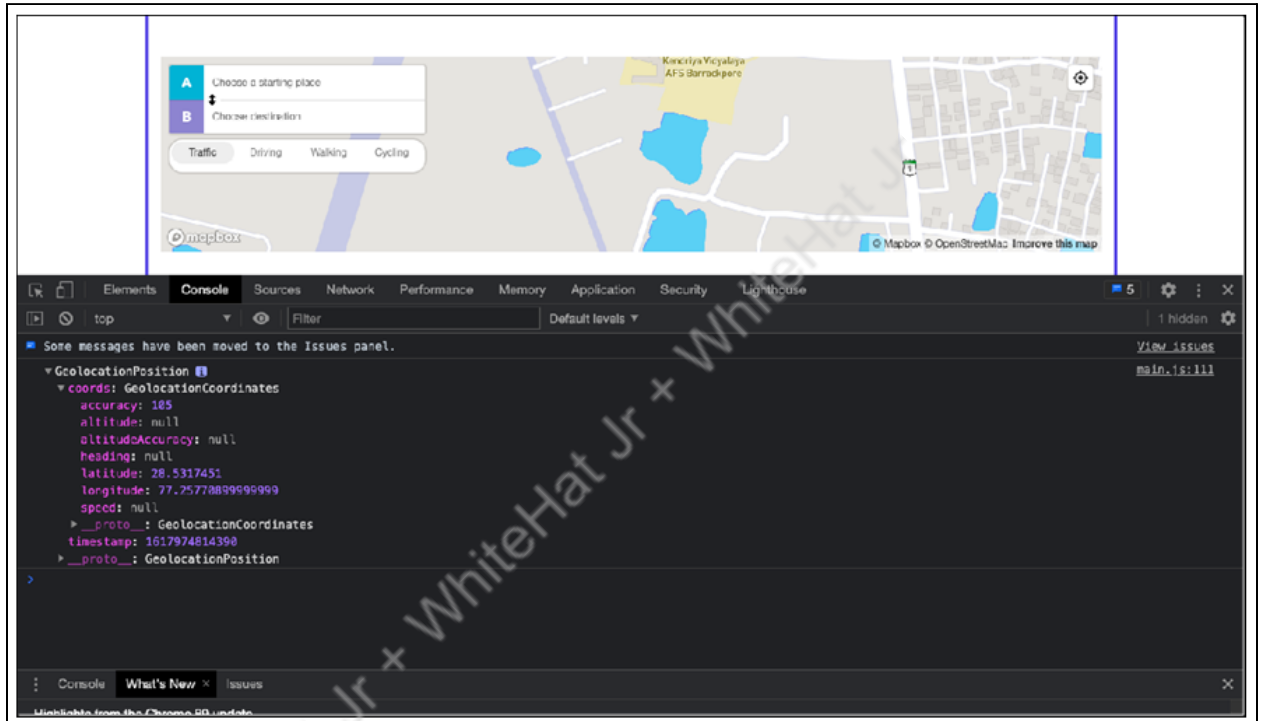
2. If the **getCurrentPosition()** works properly and is able to get the user's location, it will call the **success()** function in which it will provide the user's current position as an argument.

```
function initGeolocation() {  
    if (navigator.geolocation) {  
        navigator.geolocation.getCurrentPosition(success);  
    } else {  
        alert("Sorry, your browser does not support geolocation services.");  
    }  
}
```

```
function success(position) {  
    console.log(position)  
}
```

3. Call the function `initGeolocation()`, open in the browser and check the console.

```
$(document).ready(function () {  
    alert("Please allow the device to know your location!");  
    initGeolocation();  
})
```

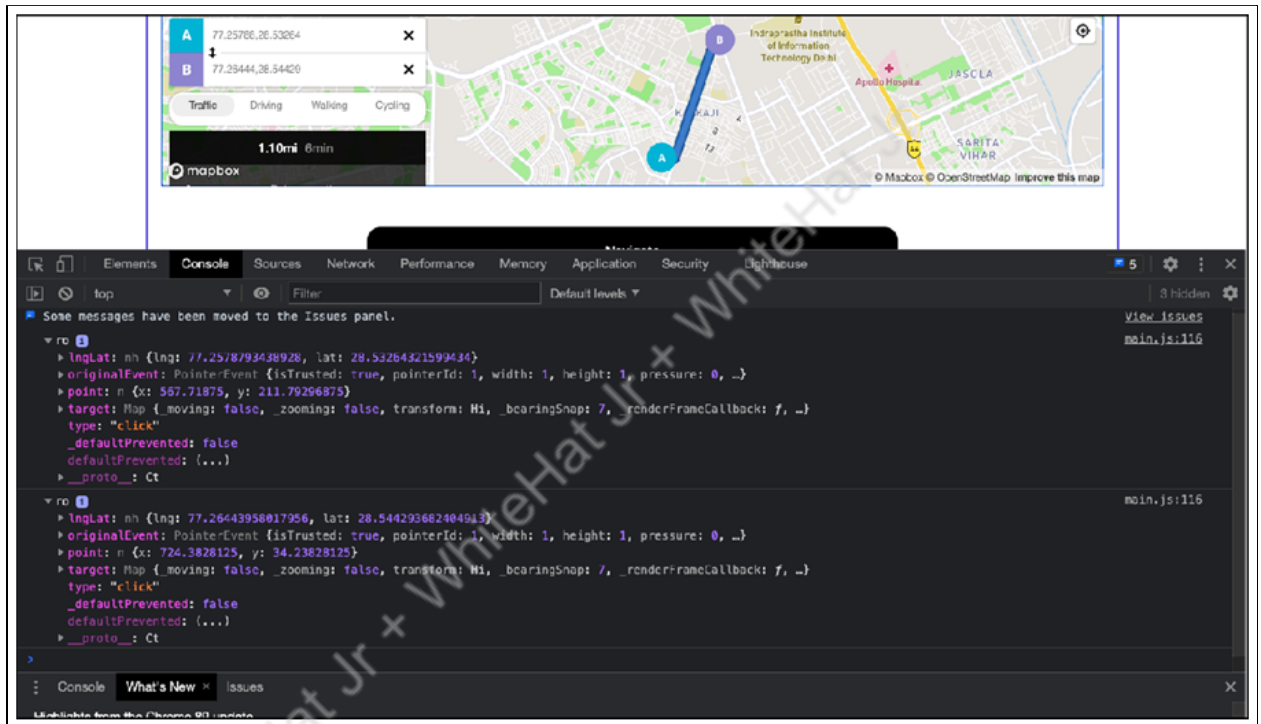


4. Give values to our latitude and longitude from the position argument in the success() function and then move all code for Mapbox inside this success() function.

```
function success(position) {  
  longitude = position.coords.longitude;  
  latitude = position.coords.latitude  
  
  // Initializing Mapbox  
  mapboxgl.accessToken = 'pk.eyJ1IjoieXBvb3J2ZWxvdXMlLCJhIjoieY2ttZnlyMDg'  
  var map = new mapboxgl.Map({  
    container: 'map',  
    style: 'mapbox://styles/mapbox/streets-v11',  
    center: [longitude, latitude],  
    zoom: 16  
  });  
  
  map.addControl(  
    new MapboxDirections({  
      accessToken: mapboxgl.accessToken  
    }),  
    'top-left'  
  );  
}
```

5. Inside our success() function, let's add an on click function.

```
map.on('click', function (e) {
  console.log(e)
});
```



6. Create a click() event function on our navigate button.

```
$(function () {
  $("#navigate-button").click(function () {
    window.location.href = `ar_navigation.html?source=${latitude}&longitude=${destination.lng}&destination=${destination.lat}`;
  })
})
```

7. Create ar_navigation.html for the next screen and corresponding files for it - ar_navigation.js and ar_navigation.css.

```
# ar_navigation.css
<> ar_navigation.html
JS ar_navigation.js
# main.css           M
<> main.html         M
JS main.js           M
```

8. To fetch the source and destination coordinates from the query parameters:

- Create an object called coordinates in which we will be saving the coordinates for our starting point and destination.

```
let coordinates = {}
```

- Create a \$(document).ready() function where we will call a function that can fetch the coordinates.

```
$(document).ready(function () {
    get_coordinates();
})
```

- Create get_coordinates() function to get the data from the query parameters.

```
function get_coordinates() {
    let searchParams = new URLSearchParams(window.location.search)
    if (searchParams.has('source') && searchParams.has('destination')) {

    } else {
        alert("Coordinates not selected!")
        window.history.back();
    }
}
```

- After getting the source and destination parameters, with the help of split() function, we are saving the source_lat, source_lon, destination_lat and destination_lon values in our coordinates object.

```
function get_coordinates() {
    let searchParams = new URLSearchParams(window.location.search)
    if (searchParams.has('source') && searchParams.has('destination')) {
        let source = searchParams.get('source')
        let destination = searchParams.get('destination')
        coordinates.source_lat = source.split(";")[0]
        coordinates.source_lon = source.split(";")[1]
        coordinates.destination_lat = destination.split(";")[0]
        coordinates.destination_lon = destination.split(";")[1]
    } else {
        alert("Coordinates not selected!")
        window.history.back();
    }
}
```

We have successfully fetched our source and destination coordinates from the query parameters.

What's NEXT?

In the next class, we will learn about location based Augmented reality.

EXTEND YOUR KNOWLEDGE:

- You can refer to the link below to explore more about AFrame
[A-Frame](#)
- You can refer to the link below to explore more about jQuery
[jQuery](#)
- You can refer to the link below to explore more about Mapbox API
[Mapbox API](#)
- You can refer to the link below to explore more about Navigator Object
[Navigator](#)