

# What is our GOAL for this MODULE?

We used the NASA API to get data about different asteroids/meteors.

# What did we ACHIEVE in the class TODAY?

- Generated the API key to access the data.
- Used the API key to get data from the asteroids API.
- Generate threat scores for the meteors

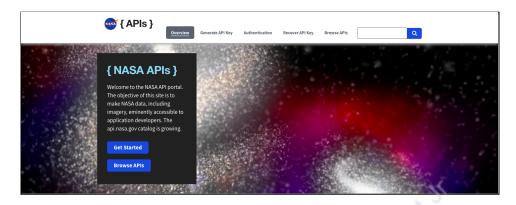
# Which CONCEPTS/ CODING BLOCKS did we cover today?

- Usage of API.
- Advanced JavaScript concepts to perform array operations



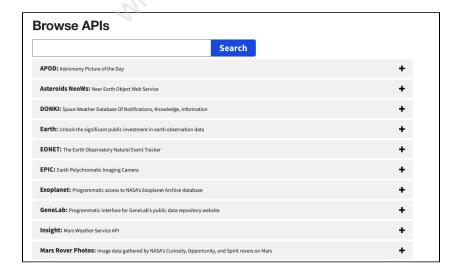
#### How did we DO the activities?

1. Sign up on the NASA website to generate the API key.





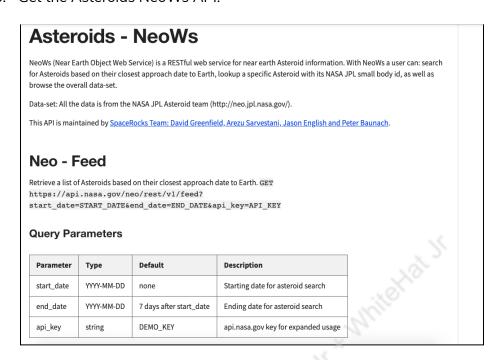
2. Browse through all the APIs provided by NASA to get the asteroids API.



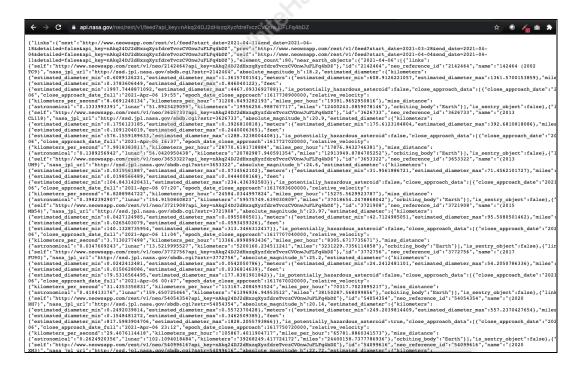
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#### Get the Asteroids NeoWs API.

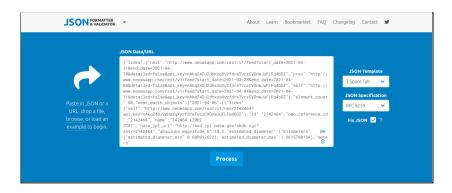


# 4. Check for the data on the asteroids API.





5. Use the JSON formatter to make it readable.



6. Write a getMeteor function to get the data using the asteroids API.

```
import React, { Component } from 'react'
import { Text, View } from 'react-native';
import axios from "axios";
export default class MeteorScreen extends Component {
    getMeteors = () =>
            .get("https://api.nasa.gov/neo/rest/v1/feed?api_key=nAkq24DJ2dHxzqXyzfdreTvczCVOnwJ
                this.setState({ meteors: response.data.near_earth_objects })
            .catch(error => {
                Alert.alert(error.message)
    render() {
        return (
                style={{
                    flex: 1,
                    justifyContent: "center",
                    alignItems: "center"
                <Text>Meteor Screen!</Text>
            </View
```

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7. Call the function in the ComponentDidMount function.

```
constructor(props) {
    super(props);
    this.state = {
        meteors: {},
    };
}

componentDidMount() {
    this.getMeteors()
}
```

8. Write code to get the specific needed data from the provided data.

```
let meteor_arr = Object.keys(this.state.meteors).map(meteor_date => {
            return this.state.meteors[meteor_date]
        })
        let meteors = [].concat.apply([], meteor_arr);

        meteors.forEach(function (element) {
            let diameter =
        (element.estimated_diameter.kilometers.estimated_diameter_min +
        element.estimated_diameter.kilometers.estimated_diameter_max) / 2
            let threatScore = (diameter /
        element.close_approach_data[0].miss_distance.kilometers) * 1000000000
            element.threat_score = threatScore;
        });
```

# What's NEXT?

In the next class, we will work on completing our meteor screen and with it, our ISS Tracker app will get completed.

### **EXTEND YOUR KNOWLEDGE**