

# WBEZ - Full Stack Engineer 2022 Code Challenge

Congratulations on advancing to the Code Challenge round for the Full Stack Software Engineer role at WBEZ! Please find below instructions for the code challenge.

## NASA Near Earth Object API Monitoring App

For this challenge, you will build an application that uses the NASA API to display to a user what Near Earth Objects (Asteroids) are near earth on a given day, along with details about the objects. The design of the UI is completely up to you, but there are specific requirements that the application must meet. The API endpoint, API key, and a sample query will be provided.

### Technical Requirements

1. The application may be written in a Javascript framework of your choice. (Develop a React Native App for **extra credit**)
2. The application must be able to run locally from terminal, with instructions on how to run in a README.
3. Your code should be clean, clear, and documented where appropriate.

### Application Requirements

1. The application must have a date input in which a user can select a date. The date should be defaulted to the current date.
2. The application must query the NASA NEO API, and display data about each near earth object for the selected date.
3. For each object, the following details should be displayed:
  - a. Name
  - b. Diameter in feet
  - c. Miss distance in miles
  - d. Speed in miles per hour
  - e. Whether or not the object is potentially hazardous

### Delivery Requirements

1. The project must be delivered as a public GitHub repository
2. The project must be delivered within 4 days after receipt of this challenge document.

### API Details:

Base API Endpoint: <https://api.nasa.gov/neo/rest/v1/feed>

API Key: 2zcSAHeiiktXliYCHz2eVVzGfUpwPsFqTX97WquF

Sample API Query:

[https://api.nasa.gov/neo/rest/v1/feed?start\\_date=2022-01-28&end\\_date=2022-01-28&api\\_key=2zcSAHeiiktXliYCHz2eVVzGfUpwPsFqTX97WquF](https://api.nasa.gov/neo/rest/v1/feed?start_date=2022-01-28&end_date=2022-01-28&api_key=2zcSAHeiiktXliYCHz2eVVzGfUpwPsFqTX97WquF)