

Internship Assignment for Interview Shortlisting

Submission Method: Host the assessment and provide its link with the source code (GitHub repo or zip).

There are two assignments below, But you must choose and complete **ONLY ONE** assignment that aligns with your preferences. Following submitting your chosen assignment, you will be evaluated for potential selection to proceed to the initial round of discussions. The assignment will be evaluated based on functionality, code quality, error handling, and the user interface.

Assignment 1:

Title: Zip Code Information App - React

Description: Create a React application that allows users to enter a postal code and fetch information about that location using the <https://api.zippopotam.us> API.

Requirements:

- Create a React app with at least two components: one for entering the postal code and another for displaying the location information.
- Provide a form or input field where users can enter a postal code.
- When the user submits the postal code, fetch the location information from the API and store it.
- Display the fetched location information, including the country, state, and place name.
- Handle errors gracefully and display an error message if the API call fails.
- Add a loading indicator to show that data is being fetched.
- Include a button or option to clear the displayed information.
- Style the application using CSS or a CSS framework to make it visually appealing.
- Optional: Implement a Redux store to manage the application's state.

API Information :

If Pincode is 400093 the API URL be like

API URL: <https://api.zippopotam.us/in/400093>

Request method: GET

Sample Response: ----->

```
1  {
2    "post code": "400093",
3    "country": "India",
4    "country abbreviation": "IN",
5    "places": [
6      {
7        "place name": "M I D C Plots",
8        "longitude": "72.85",
9        "state": "Maharashtra",
10       "state abbreviation": "MM",
11       "latitude": "19.0167"
12     },
13     {
14       "place name": "Abmedabad Exp Highway M.I.D.C",
15       "longitude": "72.85",
16       "state": "Maharashtra",
17       "state abbreviation": "MM",
18       "latitude": "19.0167"
19     },
20     {
21       "place name": "Gandhi Nagar",
22       "longitude": "72.85",
23       "state": "Maharashtra",
24       "state abbreviation": "MM",
25       "latitude": "19.0167"
26     }
27   ]
28 }
```

OR

Assignment 2:

Title: Click to Bounce Ball

Description: Create a basic game using HTML5 Canvas and JavaScript where a ball bounces to the location you click on the canvas. The goal is to implement this interactive behavior. You can choose any framework of WebGL.

Requirements:

- Implement a canvas element on the web page.
- Create a ball on the canvas.
- Implement a mouse click event listener so that when you click on the canvas, the ball moves to the clicked location.
- The ball should bounce off the canvas boundaries when it reaches them.
- Use JavaScript to handle the ball's movement and count number of time it bounces and implement Reset button to set counter to 0.
- Style the game using images to make it visually appealing.