**React-JSON-server and Firebase Real Time Database**

* What do you mean by RESTful web services?

RESTful web services are web services that are designed to work well on the web and are built using the Representational State transfer(REST) architectural style. RESTful web services are built on the HTTP protocol and use HTTP methods like GET,POST,PUT, and DELETE to retrieve, create, update, and delete resources.

* What is json-server? How we use in React?

The JSON server helps frontend developers simulate all types of HTTP requests(GET,POST,PATCH,DELETE) to the mock server. This aids in developing interactive applications that need to fetch data, create new data, update existing data, or delete data from the server.

* How do you fetch data from a json-server API in react? Explain the role of fetch( ) or axios( )in making API requests.

to fetch data a json-server API in react, you typically use fetch( ) function or libraries like axios. The fetch( ) function is a built-in javaScript function that allows you to make network requests and retrieve data from external APIs, such as json-server.

1. Create a react application.
2. Change your project directory.
3. Install the Axios library with npm or yarn.
4. Access the API Endpoint.
5. Import the Axios and usestate( ) hook and set it to hold data.
6. Create a fetchinfo() callback function to fetch and store data.
7. Output.

* What is firebase? What features does firebase offer?

Firebase is a Google-backed platform that helps developers build, run, and scale apps for mobile and web. It offers a variety of features, including:

1. Authentication
2. Realtime database
3. Cloud Firestore
4. Data connect
5. App hosting
6. Hosting
7. Firebase cloud messaging
8. Application analytics

* Discuss the importance of handling errors and loading states when working with APIs in react

Handling errors and loading states in react is important for providing a good user experience and ensuring that your app is reliable

Errors:

Errors in react can be many things, including network issues, coding mistakes, or an external API that’s down. If your app crashes, users may lose trust in it and feel like it’s unreliable.

Loading state:

Handling loading sates allows you to render a loading message or fetched data based on the state.