**BlogApp**

**HandsOn 4**

1. **Create a new react application using *create-react-app* tool with the name as “blogapp”**
2. Open the application using VS Code
3. Create a new file named as **Post.js** in **src folder** with following properties



*Figure 2: Post class*

1. Create a new class based component named as **Posts** inside **Posts.js** file



*Figure 3: Posts Component*

1. Initialize the component with a list of Post in state of the component using the constructor
2. Create a new method in component with the name as **loadPosts()** which will be responsible for using Fetch API and assign it to the component state created earlier. To get the posts use the url (<https://jsonplaceholder.typicode.com/posts>)



*Figure 4: loadPosts() method*

1. Implement the **componentDidMount()** hook to make calls to **loadPosts()** which will fetch the posts



*Figure 5: componentDidMount() hook*

1. Implement the **render()** which will display the title and post of posts in html page using heading and paragraphs respectively.



*Figure 6: render() method*

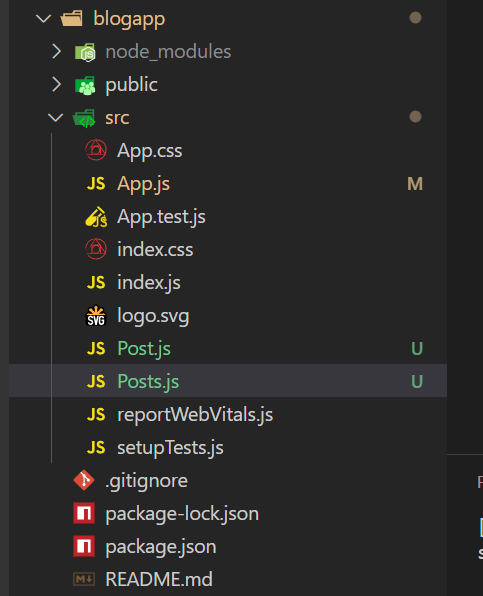
1. Define a **componentDidCatch()** method which will be responsible for displaying any error happing in the component as alert messages.



*Figure 7: componentDidCatch() hook*

1. Add the Posts component to App component.
2. Build and Run the application using *npm start* command.

**Project Structure:**

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**Code:**

**Post.js:**

class Post{

    constructor(id,title,body){

        this.id = id;

        this.title = title;

        this.body = body;

    }

}

export default Post;

**Posts.js:**

import React, { Component } from "react";

import Post from "./Post";

class Posts extends Component {

  constructor(props) {

    super(props);

    this.state = {

      posts: [],

    };

  }

loadPosts() {

    fetch("https://jsonplaceholder.typicode.com/posts")

      .then((response) => response.json())

      .then((data) => {

        const postObjects = data.map(

          (item) => new Post(item.id, item.title, item.body)

        );

        this.setState({ posts: postObjects });

      })

      .catch((error) => {

        console.error("Fetch error:", error);

        alert("Error fetching posts.");

      });

  }

  componentDidMount() {

    this.loadPosts();

  }

  componentDidCatch(error, info) {

    alert("An error occurred: " + error.message);

  }

  render() {

    return (

      <div>

        <h2>Blog Posts</h2>

        {this.state.posts.map((post) => (

          <div key={post.id}>

            <h3>{post.title}</h3>

            <p>{post.body}</p>

            <hr />

          </div>

        ))}

      </div>

    );

  }

}

export default Posts;

**App.js:**

//import logo from './logo.svg';

import './App.css';

import Posts from "./Posts";

function App() {

  return (

    <div className="App">

      <Posts/>

    </div>

  );

}

export default App;

**Output:**



