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

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*Figure 2: Post class*

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

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*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>)

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*Figure 4: loadPosts() method*

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

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*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.

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*Figure 6: render() method*

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

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*Figure 7: componentDidCatch() hook*

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

**SOLUTION**

1. Post.js file created in src.

import React from 'react';

class Post extends React.Component {

  render() {

    const { title, body } = this.props;

    return (

      <div style={{ border: '1px solid #ccc', padding: '10px', marginBottom: '10px' }}>

        <h3>{title}</h3>

        <p>{body}</p>

      </div>

    );

  }

}

export default Post;

2. Posts.js file created under src.

import React, { Component } from 'react';

import Post from './Post';

class Posts extends Component {

  constructor(props) {

    super(props);

    this.state = {

      posts: [],

      hasError: false

    };

  }

  // Step 6: Method to load posts from API

  loadPosts = () => {

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

      .then(response => {

        if (!response.ok) throw new Error('Failed to fetch posts');

        return response.json();

      })

      .then(data => {

        this.setState({ posts: data });

      })

      .catch(error => {

        this.setState({ hasError: true });

        alert("Error fetching posts: " + error.message);

      });

  };

  // Step 7: Lifecycle method

  componentDidMount() {

    this.loadPosts();

  }

  // Step 9: Catch any render-time errors

  componentDidCatch(error, info) {

    console.error("Error caught in component:", error, info);

    alert("Something went wrong in the component!");

  }

  // Step 8: Render posts

  render() {

    const { posts } = this.state;

    return (

      <div style={{ padding: '20px' }}>

        <h2>Blog Posts</h2>

        {posts.length === 0 ? (

          <p>Loading posts...</p>

        ) : (

          posts.map(post => (

            <Post key={post.id} title={post.title} body={post.body} />

          ))

        )}

      </div>

    );

  }

}

export default Posts;

3. App.js code as follows

import React from 'react';

import Posts from './Posts';

function App() {

  return (

    <div className="App">

      <Posts />

    </div>

  );

}

export default App;

**OUTPUT**

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**A screenshot of a computer screen

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**Hands on in VS**

**A computer screen shot of a program

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