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TRACK:JAVA FSE

1. Create React App

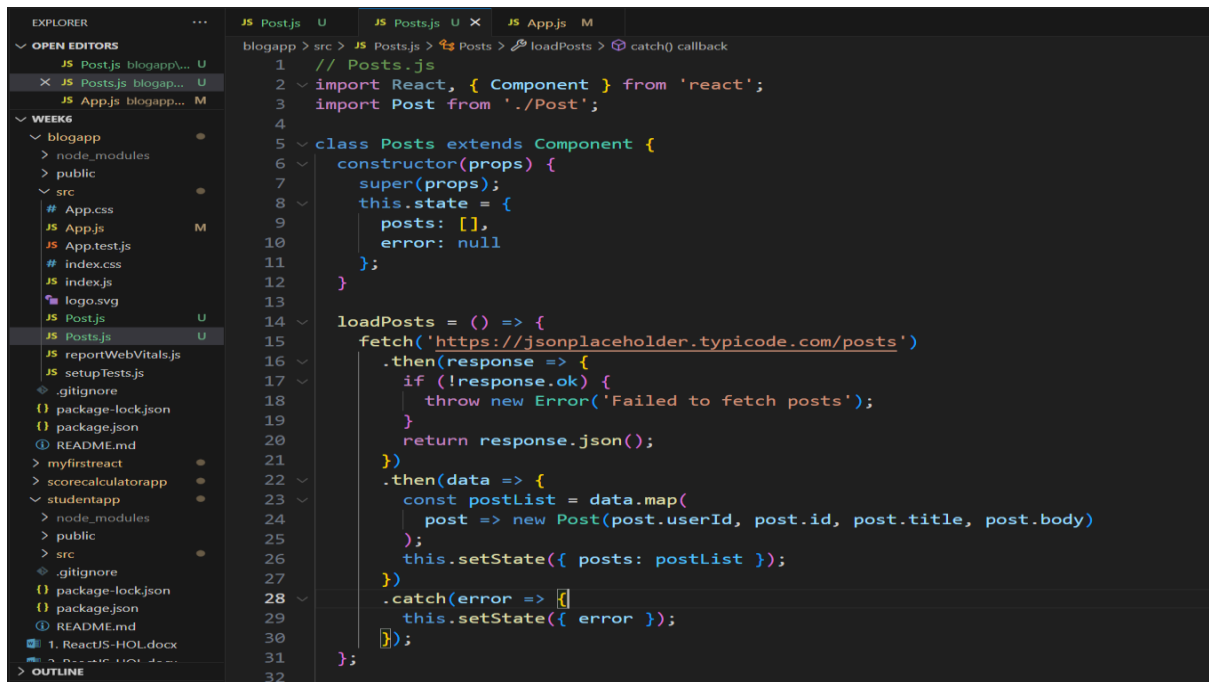
```
Installing packages. This might take a couple of minutes.  
Installing react, react-dom, and react-scripts with cra-template...  
  
added 1323 packages in 1m  
  
269 packages are looking for funding  
  run `npm fund` for details  
  
Initialized a git repository.  
  
Installing template dependencies using npm...  
  
added 17 packages, and changed 1 package in 7s  
  
269 packages are looking for funding  
  run `npm fund` for details
```

2. Create Post.js (Model Class for Post)

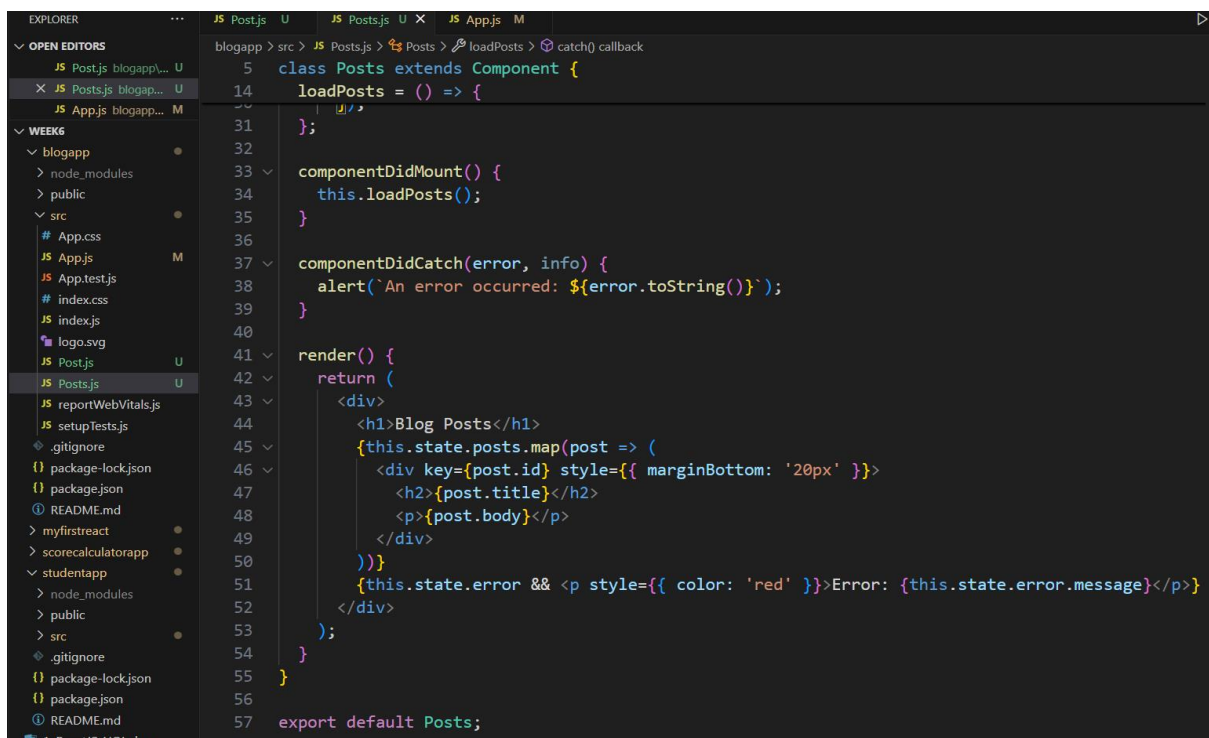
```
blogapp > src > JS Posts.js > ...  
1  // Post.js  
2  class Post {  
3    constructor(userId, id, title, body) {  
4      this.userId = userId;  
5      this.id = id;  
6      this.title = title;  
7      this.body = body;  
8    }  
9  }  
10  
11  export default Post;  
12
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

3. Create Posts.js (Class Component)

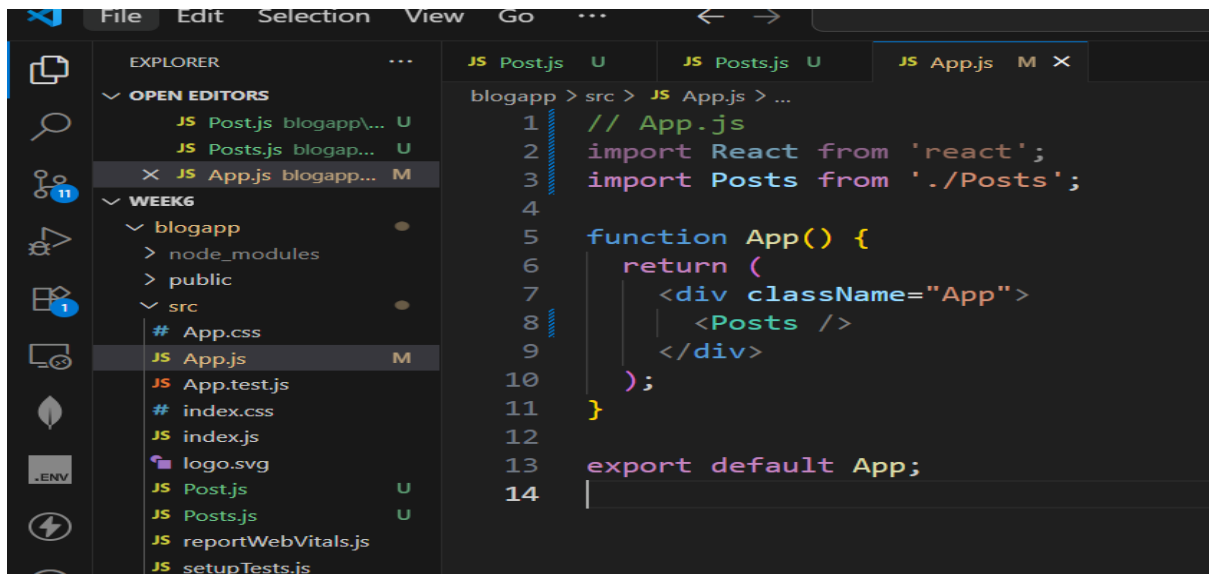


```
1 // Posts.js
2 import React, { Component } from 'react';
3 import Post from './Post';
4
5 class Posts extends Component {
6   constructor(props) {
7     super(props);
8     this.state = {
9       posts: [],
10      error: null
11    };
12  }
13
14  loadPosts = () => {
15    fetch('https://jsonplaceholder.typicode.com/posts')
16      .then(response => {
17        if (!response.ok) {
18          throw new Error('Failed to fetch posts');
19        }
20        return response.json();
21      })
22      .then(data => {
23        const postList = data.map(
24          post => new Post(post.userId, post.id, post.title, post.body)
25        );
26        this.setState({ posts: postList });
27      })
28      .catch(error => {
29        this.setState({ error });
30      });
31  };
32}
```



```
5 class Posts extends Component {
14   loadPosts = () => {
31   };
32
33   componentDidMount() {
34     this.loadPosts();
35   }
36
37   componentDidCatch(error, info) {
38     alert(`An error occurred: ${error.toString()}`);
39   }
40
41   render() {
42     return (
43       <div>
44         <h1>Blog Posts</h1>
45         {this.state.posts.map(post => (
46           <div key={post.id} style={{ marginBottom: '20px' }}>
47             <h2>{post.title}</h2>
48             <p>{post.body}</p>
49           </div>
50         ))}
51         {this.state.error && <p style={{ color: 'red' }}>Error: {this.state.error.message}</p>}
52       </div>
53     );
54   }
55 }
56
57 export default Posts;
```

4. Update App.js to include Posts component



The screenshot shows the Visual Studio Code editor with the 'App.js' file open. The Explorer sidebar on the left shows the project structure with 'App.js' selected. The main editor area displays the following code:

```
1 // App.js
2 import React from 'react';
3 import Posts from './Posts';
4
5 function App() {
6   return (
7     <div className="App">
8       <Posts />
9     </div>
10   );
11 }
12
13 export default App;
14
```

5. Run the Application

