**4. ReactJS-HOL**

The objective of this HandsOn is to create a react app for Student Management Portal named scorecalculatorapp and create a function component named “CalculateScore” which will accept Name, School, Total and goal in order to calculate the average score of a student and display the same.

**Steps followed :**

1. Created the React App –

I created a new React app ‘blogapp’ using command in command prompt :

A screenshot of a computer program

AI-generated content may be incorrect.

1. Opened the Project in VS Code –

We opened this project in VS code using code :

A black background with white text

AI-generated content may be incorrect.

1. Created the Post Class –

Inside src/Post.js, defined a simple class to model the structure of a post:

class Post {

constructor(id, title, body) {

this.id = id;

this.title = title;

this.body = body;

}

}

export default Post;

1. Created Posts Class Component –

Inside src/Posts.js, created a React class component to:

* Initialize an empty post list in state
* Fetch posts using the Fetch API
* Render post titles and content
* Handle any errors using componentDidCatch()

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 postsArray = data.map(item => new Post(item.id, item.title, item.body));

this.setState({ posts: postsArray });

});

}

componentDidMount() {

this.loadPosts();

}

componentDidCatch(error, info) {

alert('Error occurred: ' + error);

}

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;

1. Updated App.js to Display Posts –

import React from 'react';

import './App.css';

import Posts from './Posts';

function App() {

return (

<div className="App">

<Posts />

</div>

);

}

export default App;

1. Ran the Application –

A screenshot of a computer program

AI-generated content may be incorrect.

1. Output –

A screenshot of a computer

AI-generated content may be incorrect.