# 4.ReactJS-HOL

## **Objectives**

- Explain the need and Benefits of component life cycle
- Identify various life cycle hook methods
- List the sequence of steps in rendering a component

In this hands-on lab, you will learn how to:

- Implement componentDidMount() hook
- Implementing componentDidCatch() life cycle hook.

#### **Prerequisites**

The following is required to complete this hands-on lab:

- Node.js
- NPM
- Visual Studio Code

#### Code:

## Post.js

## Posts.js

```
import React, { Component } from 'react';
import Post from './Post';
class Posts extends Component {
    constructor(props) {
        super(props);
        this.state = {
            posts: [],
            hasError: false
        };
    loadPosts = () => {
        fetch("https://jsonplaceholder.typicode.com/posts")
            .then(response => response.json())
            .then(data => this.setState({ posts: data }))
            .catch(error => {
                console.error("Fetch error:", error);
                this.setState({ hasError: true });
            });
    componentDidMount() {
        this.loadPosts();
    componentDidCatch(error, info) {
        alert("An error occurred in the Posts component.");
        console.error("Error caught:", error, info);
    render() {
        const { posts, hasError } = this.state;
        if (hasError) {
            return <h2>Something went wrong while fetching posts.</h2>;
        return (
            <div>
                <h1>Blog Posts</h1>
                {posts.slice(0, 10).map(post => (
                    <Post key={post.id} title={post.title} body={post.body} />
                ))}
            </div>
        );
```

```
}
export default Posts;
```

## App.js

#### **Terminal Output:**

```
PS E:\Cognizant-Java FSE\Week 6\Code\4.ReactJS-HOL> npx create-react-app blogapp

Creating a new React app in E:\Cognizant-Java FSE\Week 6\Code\4.ReactJS-HOL\blogapp.

Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...

added 1323 packages in 57s

269 packages are looking for funding
    run `npm fund` for details

Installing template dependencies using npm...

added 18 packages, and changed 1 package in 6s

269 packages are looking for funding
    run `npm fund` for details

Removing template package using npm...

removed 1 package, and audited 1341 packages in 5s

269 packages are looking for funding
    run `npm fund` for details
```

```
PS E:\Cognizant-Java FSE\Week 6\Code\4.ReactJS-HOL> cd blogapp

PS E:\Cognizant-Java FSE\Week 6\Code\4.ReactJS-HOL\blogapp> npm start

> blogapp@0.1.0 start
> react-scripts start

(node:9228) [DEP_WEBPACK_DEV_SERVER_ON_AFTER_SETUP_MIDDLEWARE] DeprecationWarning: 'onAfterSetupMiddleware' option is deprecated. Please use the phiddlewares' option.

(Use 'node --trace-deprecation ...' to show where the warning was created)
(node:9228) [DEP_WEBPACK_DEV_SERVER_ON_BEFORE_SETUP_MIDDLEWARE] DeprecationWarning: 'onBeforeSetupMiddleware' option is deprecated. Please use tupMiddlewares' option.

starting the development server...

Compiled successfully!

You can now view blogapp in the browser.

Note that the development build is not optimized.
To create a production build, use npm run build.

webpack compiled successfully

| webpack compiled successfully |
```

#### **Browser Output:**

