**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

**ANSWERS :**

Explain the need and Benefits of component life cycle

- Helps in controlling the behavior of a component at different stages

- Allows performing tasks during creation, updating, and removal of components

- Helps in managing resources like API calls, timers, and subscriptions efficiently

- Improves application performance by managing rendering and re-rendering

- Helps in debugging and error handling during component usage

Identify various life cycle hook methods

- constructor()

- render()

- componentDidMount()

- componentDidUpdate()

- componentWillUnmount()

- shouldComponentUpdate()

- getDerivedStateFromProps()

- getSnapshotBeforeUpdate()

- componentDidCatch()

List the sequence of steps in rendering a component

- constructor() is called

- getDerivedStateFromProps() is called

- render() is called

- componentDidMount() is called

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

## **Notes**

Estimated time to complete this lab: **60 minutes.**

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

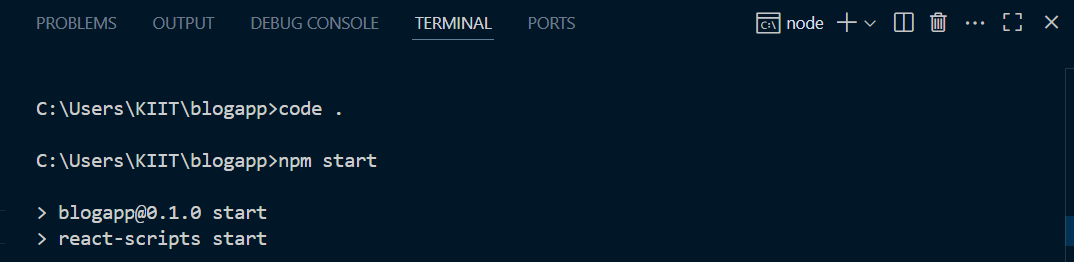
1. Define a **componentDidCatch()** method which will be responsible for displaying any error happing in the component as alert messages.



Figure 7: componentDidCatch() hook

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

**OUTPUT :**

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