# **Internship Report – Frontend Dev**

# Week 7: React.js Advanced

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**Internship Domain: Front-end Intern** 

Task: Mini Project - The Blog Viewer using API

# Task Overview: (Day5)

The task for today was to build a Mini Project in React.js that applies all the concepts learned so far in Week 6 (React Basics) and Week 7 (React Advanced). I have selected the project **Blog Viewer** that fetches and displays real blog posts from an API.

# **Objective:**

The objective was:

- To implement concepts of react.js such as routing, API calls etc.
- To understand and use real APIs for fetching live data.
- To practice component-based architecture and state management in React.
- To enhance the project's styling and UI for a better user experience.

# Mini-project: Blog Viewer using API

The Blog Viewer is a simple React.js application that fetches real blog posts from the Sling Academy API and displays them in a user-friendly interface.

The home page lists all available blog posts, showing the title, an image (if available), and a short excerpt of the content. Each post has a "Read More" link that navigates to a detailed view page showing the full content of the blog. The project uses React Router for navigation, a custom useFetch hook for API calls, and CSS for styling the interface.

# All the Concepts Used

#### 1. React Router

Used for navigating between pages:

- $/ \rightarrow$  Displays the list of blog posts.
- /post/:id → Displays details of a selected post.

#### 2. useEffect for API Calls

Used to fetch real blog data from the Sling Academy API when the component mounts.

## 3. Custom Hook (useFetch)

Created a reusable hook to fetch data from any given API endpoint and handle loading/error states.

## 4. React Project Folder Structure

Organized into folders:

- components/ for UI components like PostList and PostDetail.
- hooks/ for reusable logic (useFetch.js).

## 5. Conditional Styling

Used CSS classes to make posts and details look clean and responsive.

# **Future Improvements:**

While the current version of the Blog Viewer is functional and visually appealing, there are several enhancements that could improve user experience and functionality in future iterations:

- **Search Bar:** Allow users to search for blog posts by title or keyword to quickly find relevant articles.
- **Pagination or Infinite Scroll:** Instead of loading all posts at once, implement pagination or infinite scroll for better performance and smoother browsing.
- **Dark Mode Toggle:** Add a theme switcher to let users choose between light and dark mode for better accessibility.
- Category Filters: Enable filtering of posts based on categories or tags for more organized content navigation.

#### **Practice Code:**

This Blog Viewer is a simple React.js app that fetches blog posts from a public API and displays them in a clean, styled interface.

- Fetches and displays blog posts from a public API (JSONPlaceholder).
- Uses React Router for multi-page navigation.
- Implements Context API for light/dark theme toggle.
- Includes a custom hook (useFetch) for API calls.
- Applies conditional styling for different themes.

#### **Index.js:**

```
JS index.js X JS App.js
                                      JS ThemeContext.js
                                                               JS useFetch.is
                                                                                   JS Navbar.js
                                                                                                      JS PostList.js
                                                                                                                          JS Home.js
                                                                                                                                             JS PostDe ▷ 🏻 …
  1 import React from "react";
       import { createRoot } from "react-dom/client";
import { BrowserRouter } from "react-router-dom";
       import App from "./App";
import { ThemeProvider } from "./context/ThemeContext";
        import "./index.css";
       createRoot(document.getElementById("root")).render(
               <ThemeProvider>
                 <App /:
               </ThemeProvider>
            </BrowserRouter:</pre>
          </React.StrictMode>
```

## App.js:

## ThemeContext.js:

```
### style="font-size: 15 App.;"

### style="font-size: 15" | ## style="font
```

## useFetch.js:

#### Navbar.js:

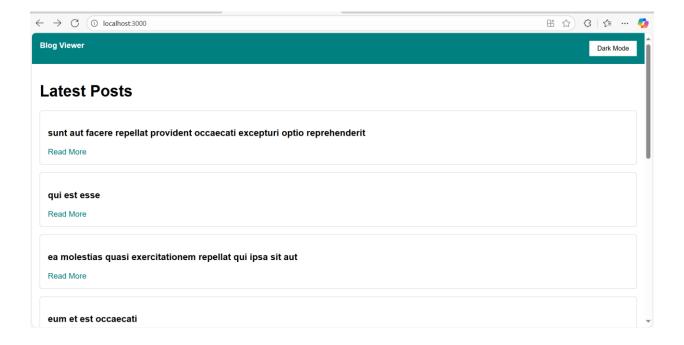
## PostList.js:

#### Home.js:

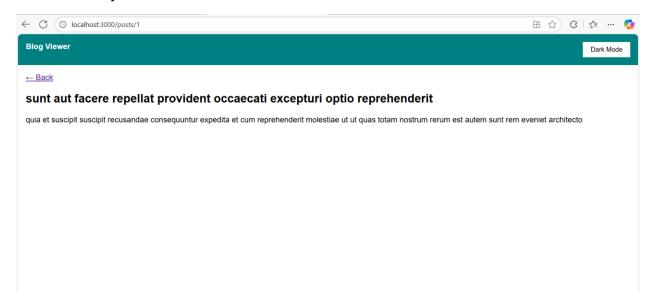
#### PostDetail.js:

#### **Index.css:**

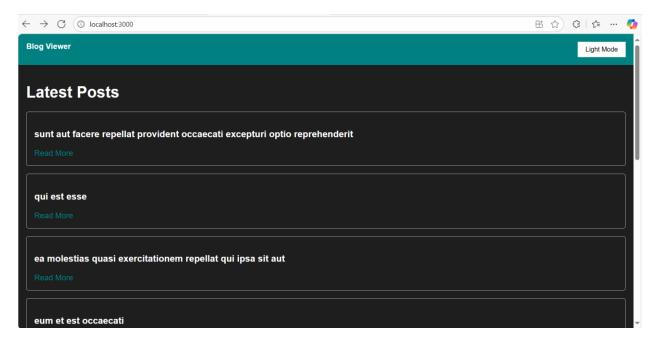
```
body {
  margin: 0;
  font-family: Arial, sans-serif;
.light-theme {
  background-color: ■#fff;
color: 🗆 #000;
 .dark-theme {
 background-color: □#1e1e1e;
color: ■#fff;
 display: flex;
  justify-content: space-between;
  padding: 1rem;
  background-color: 🗆 teal;
  color: ☐white;
 text-decoration: none;
  color: □white;
   font-weight: bold;
                                                                       Ln 54, Col 2 Spaces: 2 UTF-8 LF {} CSS 😝 🏟 Go Live 🚨
```



#### Read more for post1:



#### Dark mode:



# **Conclusion:**

Today, **The Blog Viewer using API** project successfully demonstrated the ability to work with React.js advanced concepts while integrating real-world data through an API. This mini-project enhanced understanding of routing, hooks, and API integration in React.