

Day 4 of 60: My React Learning Journey!

1.App Component

In React.js, an app component is a fundamental building block that serves as the entry point for our application's UI. It's a reusable component that typically acts as the root or parent component for all other components in our React app.

It provides a structured way to organize and render our components, promoting code reusability and maintainability.

2. React Import Component:- Importing is a mechanism that allows us to utilize code written in other JavaScript files within our React components. It promotes code modularity, reusability, and organization in our React projects. For eg:

```
import MyComponent from './MyComponent.js';  
  
// Assuming the file is in the same directory
```

Functionality:

- Imports enable us to access functions, components, variables, or any other exports defined in separate JavaScript files.
- By using imports, we can break down our React application into smaller, more manageable code modules.
- This promotes code reusability, as imported components or functions can be used in multiple parts of our application.

3.React Export Component:-In React.js, exporting is like sharing resources between roommates. Our code lives in separate files (rooms), and exporting allows us to make specific things (functions, components, variables) from one file available to others. This reusability saves time and effort. There are two main ways to export: default exports are like the main course we share for everyone, while named exports are like offering up different side dishes – we can pick which ones we want to use in our own file.

How Exporting Works:

- We use the **export** keyword to mark code elements (functions, variables, components, etc.) we want to make available for use in other files.
- Once exported, these elements become accessible through the **import** statement in other JavaScript files.

For eg: -

Greeter.jsx (Exports a component)

```
export default function Greeter() {  
  return (  
    <h1>Hello, World!</h1>  
  );  
}
```

This file exports a component named **Greeter**.

App.js (Imports and uses the component)

```
import Greeter from './Greeter'; // Named import  
  
function App() {  
  return (  
    <div>  
      <Greeter/> {/* Use the imported component */}  
    </div>  
  );  
}
```

Explanation:

1. **Greeter.jsx:**

- We use `export default function Greeter` to export the `Greeter` component as the default export.
- The component displays a greeting message.

2. **App.js:**

- We use `import Greeter from './Greeter'` to import the `Greeter` component from `Greeter.js` using a named import.
- Inside the `App` component, we use the imported `Greeter` component. This renders the greeting message "Hello, World!".

This example demonstrates how exporting allows us to create reusable components and import them into other parts of our React application.