

Lesson 03 Demo 04

Creating a Component that Re-renders

Objective: To create a component in React that re-renders with a prop input

Tools Required: Node terminal, React app, and Visual Studio Code

Prerequisites: Knowledge of creating a React app and an understanding of the folder structure

Steps to be followed:

- 1. Create a new React app
- 2. Configure the src/App.js file
- 3. Create a new file called Greetings.js
- 4. Run the app and verify the functionality

Step 1: Create a new React app

1.1. Open your terminal and run the following command to create a new React app: npx create-react-app greetings-app

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

shreemayeebhatt@ip-172-31-22-250:~$ npx create-react-app greetings-app
```

1.2. Navigate into the newly created project directory by running the following command: cd greetings-app



Step 2: Configure the file src/App.js

2.1 Open the React project in the Visual Studio code and navigate through the project directory of **greetings-app** to open the **src/App.js** file and replace the existing code in **App.js** with the following code:

export default App;

The above code defines the **App** component that renders the **Greetings** component and a button to change the name prop.



Step 3: Create a new file called Greetings.js

- 3.1 In your code editor, create a new file called **Greetings.js** inside the **src** directory
- 3.2 Copy and paste the provided code into the **Greetings.js** file:

```
import React, { memo } from 'react';

const Greetings = memo(({ name }) => {
  console.log('Rendering Greetings');
  return <div>Hello, {name}!</div>;
});
```

export default Greetings;

```
JS App.js    JS Greetings.js •

src > JS Greetings.js > ...

1    import React, { memo } from 'react';

2    const Greetings = memo(({ name }) => {
        console.log('Rendering Greetings');
        return <div>Hello, {name}!</div>;
    });

7    export default Greetings;
9
```

Step 4: Run the app and verify the functionality

4.1 Go to the terminal and execute the **npm start** command within the project directory **greetings-app** to run the app



4.2 Once the server starts successfully, open http://localhost:3000 in your browser to view the app



In the browser, you will see the default greeting message **Hello, John!** rendered by the **Greetings** component. Click the **Change Name** button to update the **name** state to **Jane** and trigger a re-render of the **Greetings** component with the new name prop value.

With this, you have successfully created a React program to re-render with a prop input.