

### Lesson 03 Demo 01

# Implementing a Component That Renders as an Unordered List

Objective: To implement a component that renders a list of books as an unordered list

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

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

#### Steps to be followed:

- 1. Create a new React app and configure the App.js file within the project
- 2. Run the app to verify the functionality

## Step 1: Create a new React app and configure the App.js file within the project

1.1 Open your terminal and run the following command to create a new **React** app: npx create-react-app book-list-app

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

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

**Note:** This will create a new **React** app in a directory named **book-list-app.** 



1.2 Navigate into the newly created project directory by running the following command:

cd book-list-app

```
shreemayeebhatt@ip-172-31-22-250:~$ cd book-list-app/
```

1.3 Open the React project **book-list-app** in Visual Studio Code and navigate to **src/App.js**. Replace the existing code in **App.js** with the following code: **import React from 'react':** 

```
import React from 'react';
function BookList({ books }) {
  return (
   {books.map(book => (
    key={book.id}>
      <h3>{book.title}</h3>
      by {book.author}
   ))}
  );
export default function App() {
 const books = [
  { id: 1, title: 'Book 1', author: 'Author 1' },
  { id: 2, title: 'Book 2', author: 'Author 2' },
 { id: 3, title: 'Book 3', author: 'Author 3' }
 ];
 return (
   <div>
     <h2>Book List</h2>
     <BookList books={books} />
  </div>
); }
```

**Note:** In this, a functional component named **BookList** is defined, which accepts an array of books as a prop and is rendered with the help of the **App** component.

## Step 2: Run the app to verify the functionality

2.1 Go to the terminal and execute the npm start command within the book-list-app project directory to run the app

```
shreemayeebhatt@ip-172-31-22-250:~/book-list-app$ npm start
```



2.2 Once the server starts successfully, open http://localhost:3000 in your browser to view and check the functionality of the app



In the browser, you will see the **BookList** heading and a list of books with their titles and authors. This list is rendered by the **BookList** component based on the **books** array defined in the **App** component.

With this, you have successfully implemented a component that renders a list of books as an unordered list.