

The screenshot shows a dark-themed dashboard application. On the left is a sidebar with the title "MyDashboard" and a list of navigation items: "Dashboard" (selected), "Users", "Analytics", and "Settings". The main content area has a header "Dashboard" and a light gray background. It features three cards: "Users" (1,240), "Revenue" (₹45,000), and "Orders" (320). Below these is a section titled "Recent Activity" with a list of three items: "New user registered" (indicated by a green checkmark icon), "Payment received" (indicated by a brown bar chart icon), and "Order shipped" (indicated by a brown delivery truck icon).

1. How would you set up a new React project using tools like Create React App or Vite?

Using Create React App. :  
npx create-react-app my-app  
cd my-app  
npm start

Using Vite:

```
npm create vite@latest my-app  
cd dashboard  
npm install  
npm run dev
```

## 2. What is the role of `package.json` in a React project?

`package.json` stores project information, dependencies, and scripts used to run, build, and test the React application.

## 3. How do you create a functional component in React?

```
function MyComponent() {  
  return <h1>Hello</h1>;  
}  
  
export default MyComponent;
```

#### 4. How are components rendered inside the main App component?

```
import MyComponent from "./MyComponent";
```

```
function App() {  
  return <MyComponent />;  
}
```

#### 5. What are the benefits of breaking the UI into small reusable components?

It improves reusability and makes the code easier to maintain and debug.

It also helps teams work on different parts of the UI independently.