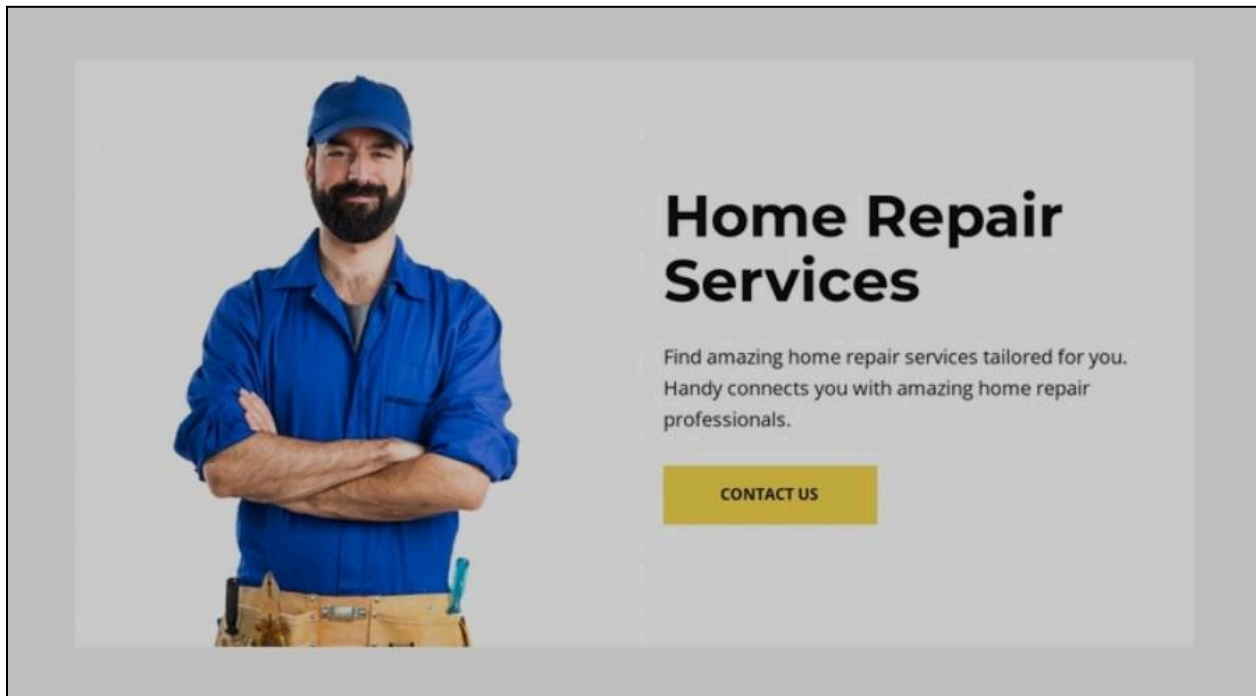# React components, state & props

1. Build a Simple React Layout Using Functional Components

Task:
Create a React application using **Vite** and implement the following layout using **functional components**.

2. Build a Simple React Layout Using Functional Components

Task:
Create a React application using **Vite** and implement the following layout using **functional components**.

Our Leadership and People

Images from **Freepik**

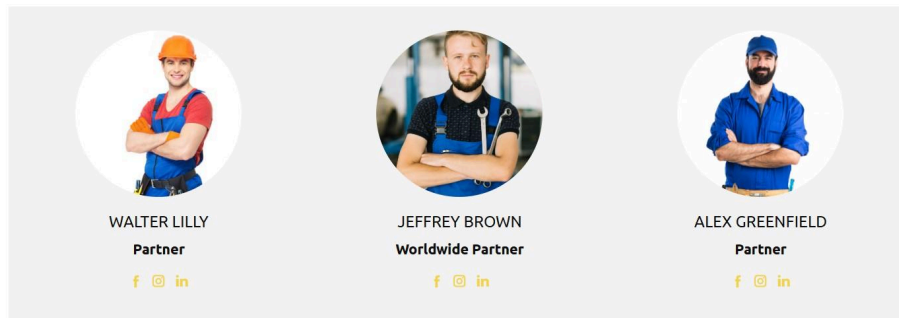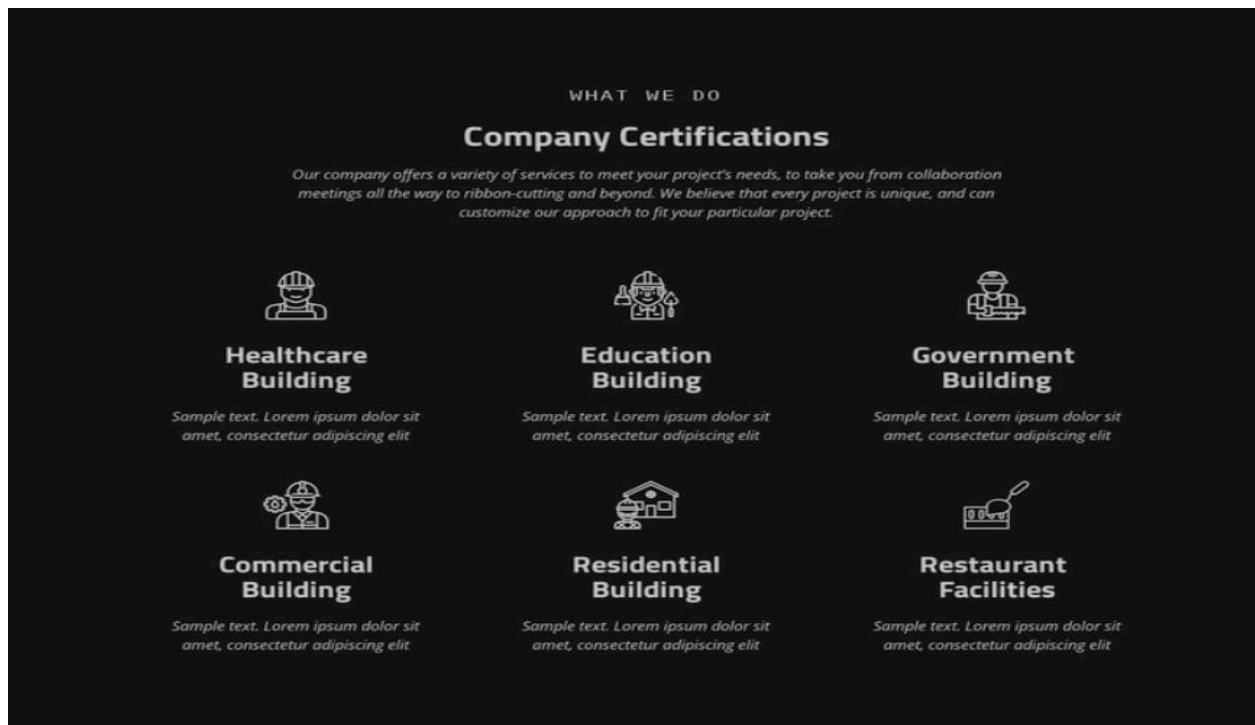|		
WALTER LILLY	JEFFREY BROWN	ALEX GREENFIELD
Partner	**Worldwide Partner**	**Partner**
f ⊙ in	f ⊙ in	f ⊙ in

3. Build a Simple React Layout Using Functional Components

Task:
Create a React application using **Vite** and implement the following layout using **functional components**.

WHAT WE DO
Company Certifications

Our company offers a variety of services to meet your project's needs, to take you from collaboration meetings all the way to ribbon-cutting and beyond. We believe that every project is unique, and can customize our approach to fit your particular project.

Healthcare Building

Sample text. Lorem ipsum dolor sit amet, consectetur adipiscing elit

Education Building

Sample text. Lorem ipsum dolor sit amet, consectetur adipiscing elit

Government Building

Sample text. Lorem ipsum dolor sit amet, consectetur adipiscing elit

Commercial Building

Sample text. Lorem ipsum dolor sit amet, consectetur adipiscing elit

Residential Building

Sample text. Lorem ipsum dolor sit amet, consectetur adipiscing elit

Restaurant Facilities

Sample text. Lorem ipsum dolor sit amet, consectetur adipiscing elit

4. Build a Simple React Layout Using Functional Components

Task:
Create a React application using **Vite** and implement the following layout using **functional components**.

5. Counter Component

Problem Statement:
Create a functional component called `Counter` that displays a number and two buttons: one to increment the number and one to decrement it. Use the `useState` hook to manage the state of the counter.
Expected Output:
- Initial value: `0`
- Clicking the "+" button increments the number.
- Clicking the "-" button decrements the number.

6. Toggle Button Component

Problem Statement:
Create a functional component called `ToggleButton` that displays a button to toggle between "ON" and "OFF" states. Use the `useState` hook to manage the state of the toggle.

Expected Output:
- Initial state: "OFF"
- Button text: "Toggle: OFF"
- After clicking the button:
  - State: "ON"
  - Button text: "Toggle: ON"
- Clicking the button again toggles back to "OFF".

7. Input Display Component

Problem Statement:
Create a functional component called `InputDisplay` that includes an input field and a display area. As the user types in the input field, the text should be displayed in real-time below the input field. Use the `useState` hook to manage the state of the input value.

Expected Output:
- Initial state: Input field is empty, and nothing is displayed below.
- As the user types in the input field, the text is displayed below in real-time. Example:
- User types "Hello" → Display: "Hello"
- User types "Hello World" → Display: "Hello World"

8. Weather Display Component

Scenario:
You are building a weather app. Create a functional component called `WeatherDisplay` that takes `city`, `temperature`, and `weatherCondition` as props. Display the city name, temperature, and weather condition in a user-friendly format.

Expected Output:
If the props are `city="New York"`, `temperature="22°C"`, and `weatherCondition="Sunny"`, the component should render:

```
City: New York
Temperature: 22°C
Condition: Sunny
```

9 Employee Card Component

Scenario:

You are building an employee directory for a company. Create a functional component called `EmployeeCard` that takes `name`, `role`, and `profileImage` as props. Display the employee's name, role, and profile image (use the `profileImage` prop as the `src` for the image).

Expected Output:

If the props are `name="John Doe"`, `role="Software Engineer"`, and `profileImage="https://example.com/john.jpg"`, the component should render:

```
John Doe
Software Engineer
[Image of John Doe]
```

10. Blog Post Component

Scenario:

You are building a blog platform. Create a functional component called `BlogPost` that takes `title`, `author`, `date`, and `content` as props. Display the blog post title, author, publication date, and content.

Expected Output:

If the props are `title="Introduction to React"`, `author="Jane Smith"`, `date="October 5, 2023"`, and `content="React is a JavaScript library for building user interfaces..."`, the component should render:

```
Title: Introduction to React
Author: Jane Smith
Date: October 5, 2023
Content: React is a JavaScript library for building user interfaces...
```