## Explain React components

React components are building blocks of a React application. They let you split the UI into independent, reusable pieces that are easy to manage and develop. A React component is a JavaScript function (or class) that returns a piece of UI — usually written in JSX (a syntax that looks like HTML in JavaScript).

## Identify the differences between components and JavaScript functions

* React Component renders UI, while JavaScript function performs a task or calculates a value
* React Component return JSX, while JavaScript function returns Any value (number, string, object, etc.)

## Identify the types of components

* Functional Components
* Class Components
* Presentational (or Dumb) Components
* Container (or Smart) Components
* Pure Components

## Explain class component

A class component in React is a way to define a component using JavaScript classes.

## Explain function component

A function component in React is a JavaScript function that returns JSX (a representation of UI). It is the simplest and most modern way to create React components — clean, easy to write, and powerful (especially with hooks like useState, useEffect).

## Define component constructor

In class components, the constructor is a special method used to:

* Initialize state
* Bind methods
* Optionally handle props setup

## Define render() function

The render() function is a required method in class components.  
It returns JSX (or null) to describe what the UI should look like.