4. In React, what is the role of components, and what are the methods for creating them?

Components are the building blocks of any React app. Components allow us split the UI into independent and reusable pieces.

A component is combination of

1. Template using HTML

2. User Interactivity using JS

3. Applying Styles using CSS

A typical React app will have many components like header component, navbar component, footer component and content component. Conceptually a component is a JavaScript class or function that accepts inputs which are properties(props) and returns a React element that describes how a section of the User Interface should appear. A component can be created as Function Component or Class Component.

There are 3 ways/methods to create react components

Method #1: Using a Variable Function (depreciated)

Method #2: Using a Class

Method #3: Using a Stateless Functional Component

The third method is the best since it does not have to extend any classes or use render()