**1. Define SPA and its benefits:**  
A **Single Page Application (SPA)** loads a single HTML page and dynamically updates content without refreshing the whole page.  
Benefits include **faster navigation**, **better user experience**, and **reduced server load**.

**2. Define React and identify its working:**  
**React** is a JavaScript library for building user interfaces, mainly for SPAs.  
It works by using a **virtual DOM** to efficiently update and render UI components based on state changes.

**3. Identify the differences between SPA and MPA:**

* **SPA** loads one HTML page and updates content dynamically.
* **MPA** (Multi-Page Application) loads a new page from the server for each interaction.  
  SPA offers speed and seamless experience; MPA offers better SEO and simpler routing.

**4. Explain Pros & Cons of Single-Page Application:**  
**Pros**: Fast navigation, better user experience, less server load.  
**Cons**: Poor SEO, initial load may be slower, complex client-side routing and state management.

**5. Explain about React:**  
React is an open-source library developed by Facebook for building fast, interactive UIs using reusable components.  
It promotes a **component-based** architecture and uses a **virtual DOM** for efficient rendering.

**6. Define virtual DOM:**  
The **virtual DOM** is a lightweight JavaScript representation of the actual DOM.  
React uses it to track changes and update only the changed parts in the real DOM, improving performance.

**7. Explain Features of React:**

* **Component-based** structure
* **Virtual DOM** for faster UI updates
* **Unidirectional data flow**
* **JSX** (JavaScript XML) for template syntax
* Efficient state management with hooks and lifecycle methods