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1. **ReactJS**

**SPA:-**

SPA (Single Page Application) is a web application that loads a single HTML page and dynamically updates the content as the user interacts with it, without reloading the entire page.

**React**

React is a JavaScript library developed by Facebook for building user interfaces, especially SPAs.

**Virtual DOM**

The Virtual DOM is a lightweight, in-memory representation of the actual DOM.

React keeps this virtual copy to quickly compare changes (using diffing algorithm).

When changes occur, React updates only the affected parts of the real DOM, making it very fast.

**Features of React**

* Component-based architecture (UI divided into reusable pieces).
* Virtual DOM for fast rendering.
* JSX (JavaScript XML) syntax for writing UI.
* Unidirectional data flow for predictable state management.
* Declarative UI (you describe the UI, React handles updates).
* Ecosystem-friendly (works with other libraries and frameworks).
* Strong community support and backed by Meta.

**Create a new React Application with the name “myfirstreact”, Run the application to print “welcome to the first session of React” as heading of that page.**

**App.js**import React from 'react';

function App() {

return (

<div>

<h1>Welcome to the first session of React</h1>

</div>

);

}

export default App;  
  
**Outputs:-**



