**1Q) Define SPA and its benefits.**

1. SPA (Single Page Application) is a web application that loads HTML and update is made dynamically while the user interacts with the interface without refreshing the entire page

Benefits of SPA:

* It is fast and responsive by loading the necessary content and improving speed.
* Reloading on an entire page is not required.
* Fewer HTTP requests to the server are required.
* It provides better performance and an app like experience.
* The handling of client-side routing is very efficient.

**2Q) Define React and Identify Its Working.**

1. React is said to be considered as a JavaScript library which has been developed for building user interface, expecially for single page applications.

Working of react:

* It uses component-based architecture.
* It includes virtual DOM to minimize direct DOM manipulation.
* During the change of component’s state, react does the following:
  + Updates virtual DOM.
  + Compares the newer Virtual DOM to the older ones.
  + It updates only the parts of the actual DOM that has been changed.

**3Q) Identify the differences between SPA and MPA.**



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| SPA (Single-Page App) | MPA (Multi-Page App) |
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