WEEK:6

* Define SPA and its benefits

SPA is webapp or webpage that holds only one html page and then changes the dynamic changes rather than reloding the whole page.

Benefits:

•faster navigation

•less load on server

* Define React and identify its working

**React** is a **JavaScript library** used to **build user interfaces**, especially for **Single Page Applications (SPAs)**.

Component Based

JSX

Virtual DOM

Statemanagment

* Identify the differences between SPA and MPA

Loads one single HTML page in SPA and in MPA Loads a new HTML page every time you click a link

* Explain Pros & Cons of Single-Page Application

Pros:

**Fast Navigation, Less Server Load, Reusable Components.**

Cons:

Large Initial Load, **Security Concerns**

* Explain about React

**React** is a **JavaScript library** used to build **user interfaces (UI)** — especially for **single-page applications**

* Define virtual DOM
* The **Virtual DOM** is a **lightweight copy** of the **real DOM** (Document Object Model).
* React uses it to **make web apps faster** by updating only the parts of the page that change — instead of reloading the whole page.
* Explain Features of React

VirtualDOM

JSX

Components,props,state

One-Way Data Binding

APP.JS:

// src/App.js

import React from 'react';

import { BrowserRouter as Router, Routes, Route } from 'react-router-dom';

import { useEffect } from 'react';

function App() {

  return (

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

  );

}

export default App;

Output:

