## **Objectives**

* Define SPA and its benefits
* Define React and identify its working
* Identify the differences between SPA and MPA
* Explain Pros & Cons of Single-Page Application
* Explain about React
* Define virtual DOM
* Explain Features of React

In this hands-on lab, you will learn how to:

* Set up a react environment
* Use create-react-app

## **Prerequisites**

The following is required to complete this hands-on lab:

* Node.js
* NPM
* Visual Studio Code

## **Notes**

Estimated time to complete this lab: **30 minutes.**

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.

1. To create a new React app, Install Nodejs and Npm from the following link:

<https://nodejs.org/en/download/>

1. Install Create-react-app by running the following command in the command prompt:



1. To create a React Application with the name of “myfirstreact”, type the following command:



1. Once the App is created, navigate into the folder of myfirstreact by typing the following command:



1. Open the folder of myfirstreact in Visual Studio Code
2. Open the App.js file in Src Folder of myfirstreact
3. Remove the current content of “App.js”
4. Replace it with the following:



1. Run the following command to execute the React application:



1. Open a new browser window and type “localhost:3000” in the address bar



**Solution :**

Steps to Set Up and Run First React App

Step 1: Install Node.js & NPM Download and install from: 🔗 <https://nodejs.org/en/download/>

Step 2: Install create-react-app

npm install -g create-react-app

Step 3: Create a New React App

npx create-react-app myfirstreact

Step 4: Navigate to Project Directory cd myfirstreact

Step 5: Open Project in Visual Studio Code .

Step 6: Modify App.js Open: src/App.js

Replace existing code with:

import React from 'react';

function App() { return (

**Welcome to the first session of React**

); }

export default App;

Step 7: Run the React App

npm start

Step 8: View in Browser Open a browser and go to:

[http://localhost:3000](http://localhost:3000/) ✅ You should see: Welcome to the first session of React