

REACTJS

Number	Topic Id	Topic Name	Defination	Details
1	101	ReactJS Defination	React is an open source, JavaScript library for developing user interface (UI) in web application.	
2	102	Developed and Released By	Facebook	
3	103	Type	Simple, feature rich and component based UI library	
4	104	Need For ReactJS	1.Component Based 2.Better and Faster performance 3.React Native - Mobile apps	
5	105	Node version	node --version	My Node Version is v16.15.0
6	106	NodeJs Installation Link	https://nodejs.org/en/download/ .	
7	107	React toolchain	It helps to create, build, run and deploy the React application	Some of the popular toolchain to develop React applications are – Create React App SPA oriented toolchain Next.js Server-side rendering oriented toolchain Gatsby Static content oriented toolchain

➤ Tools required to develop a React application are –

- ❖ The Serve - A static server to serve our application during development
- ❖ Babel compiler
- ❖ Create React App CLI

➤ Serve Static Server

- ❖ Lightweight web server.
- ❖ It serves static site and single page application.
- ❖ It loads fast and consume minimum memory.
- ❖ It can be used to serve a React application.
- ❖ Let us install the tool using npm package manager in our system.

npm install serve -g

➤ Babel Compiler

- ❖ Babel is a JavaScript compiler which compiles many variant (es2015, es6, etc.,) of JavaScript into standard JavaScript code supported by all browsers.
- ❖ React uses **JSX**, an extension of JavaScript to design the user interface code.
- ❖ Babel is used to compile the JSX code into JavaScript code.
- ❖ Babel helps us to write our application in next generation of advanced JavaScript syntax.
- ❖ **npm install babel-cli@6 babel-preset-react-app@3 -g**

➤ Create React App - Toolchain

- ❖ **npm install -g create-react-app**
- ❖ Create React App is a modern CLI tool to create single page React application.
- ❖ It is the standard tool supported by React community. It handles babel compiler as well.

- ❖ Uses the **react-scripts package** to build and run the application.
- ❖ Once we started working on the application, we can update the react-script to the latest version at any time using npm package manager.
- ❖ **npm install react-scripts@latest**