Reactjs Assignment

Q.1 What is React Js?

Ans.1 The React.js framework is an open-source JavaScript framework and library developed by Facebook. It’s used for building interactive user interfaces and web applications quickly and efficiently with significantly less code than you would with vanilla JavaScript.

In React, you develop your applications by creating reusable components that you can think of as independent Lego blocks. These components are individual pieces of a final interface, which, when assembled, form the application’s entire user interface.

Q.2 What is NPM in React Js?

Ans.2 NPM is short for node package manager, an online directory that contains the various already registered open-source packages. NPM modules consume the various functions as a third-party package when installed into an app using the NPM command npm install.

Q.3 what is the role of Node Js in React Js ?

Ans.3 NodeJS is a framework of JavaScript which is mainly used for working with the backend of our application or building the backend using JavaScript, whereas ReactJS is a JavaScript front-end library. It is mainly used for building the user interface or the frontend of our application.

Q.4 What is CLI command in React Js?

Ans.4 React have its own CLI but currently they are only supporting creating an app (create-react-app). create-react-app used to generate the boilerplate version of a React application thru command line.

Npm -g create-react-app my-app

Q.5 What is components in React Js?

Ans.5 Components are independent and reusable bits of code. They serve the same purpose as JavaScript functions, but work in isolation and return HTML. Components come in two types, Class components and Function components, in this tutorial we will concentrate on Function components.

Q.6 What is Header and Content components in React Js?

Ans.6 Headers are compositions that extend standard navbar functionalities. They contain additional components like a jumbotron, sub-navbar, or image covers which serve as a container for extra navigation elements - usually links, forms, or call-to-action buttons.

Q.7 How to install React Js on Windows, Linux Operating System & How to install NPM and How to check version of NPM?

Ans.7 Installation Reactjs on Windows:

Step 1: Install Node.js installer for windows. Click on this [link](https://nodejs.org/en/). Here install the LTS version (the one present on the left). Once downloaded open NodeJS without disturbing other settings, click on the Next button until it’s completely installed.

**Step 2**: Open command prompt to check whether it is completely installed or not type the command –>

node -v

**Step 3**: Now in the terminal run the below command:

npm install -g create-react-app

**Step 4:**Now Create a new folder where you want to make your react app using the below command:

mkdir newfolder

**step 5**: Now inside this folder run the command –>

create-react-app reactfirst YOUR\_APP\_NAME

**Step 6**: Now open the IDE of your choice for eg.  Visual studio code and open the folder where you have installed the react app **newfolder**(in the above example) inside the folder you will see your app’s name **reactapp**(In our example). Use the terminal and move inside your app name folder. Use command cd **reactapp**(your app name)

**Step 7:**To start your app run the below command:

npm start

Q.8 How to check version of React Js?

Ans. 8 To check which React version is your project using you need to open the package. json. Take a look under the dependencies section. It should list all of the dependencies of your project and one of those should be React.

Q.9 How to change in components in React Js?

Ans .9 You can convert a function component like Clock to a class in five steps:

1. Create an ES6 class, with the same name, that extends React.
2. Add a single empty method to it called render ().
3. Move the body of the function into the render () method.
4. Replace props with this.
5. Delete the remaining empty function declaration