Quick Revisit

React Application

* React is a JavaScript library used to create RICH UI (User Interface)
* React uses Component to Generate UI
* Component is nothing but re-usable piece of code.
* Component is the combination of Data and View (HTML + Javascript )
* React is used to Create SPA (Single Page Application)
* The Landing page in React application is called as index.html
* App.js is the name of the Root Component in React application
* Package.json file is the Main File for any JS based library and framework
* Package.json will contain all the dependencies details
* For any node based application package.json file is the back bone.
* Using React, we can create custom HTML tags (Tag in any name)
* React renders each component
* React also uses concept of virtual DOM.
* React always compare the actual and virtual DOM for any state change
* React components will have state and props.
* There are two types of component in React
* Functional Component is also called as State-less component is based on JS function
* Class based Component is also called as Stateful Component, based on Class
* Props are shared resources which will help parent component to send data to the child component
* Props are mutable in nature, it value can be changed easily and directly.
* State is immutable in React, it value can’t be changed directly. We always create a copy of state and update it.
* State values can be changed using setState() method only.
* React uses React-router-dom for routing purpose
* React-router-dom does browser routing, URL routing
* For API interaction React uses 3rd party library called axios
* Axios is used to make http get(), post(), put() and delete() methods.
* Components can be compared with sticky notes that we place on top of anything.
* React application can be styled using bootstrap
* For Adding bootstrap first install bootstrap locally to the React project (npm i bootstrap)
* To React-router-dom use the following npm command (npm I react-router-dom)
* Bootstrap.min.js file can be imported to index.js or app.js
* import “./dist/css/bootstrap.min.css”
* React uses one way communication to interact with the components
* React also contains life cycle methods such as onComponentDidMount(), onComponentDidUpdate(), onComponentWillUnmount()
* React components life cycle changes from loading/mounting, updating, unmounting/unloading phase
* React is used as a front end framework.
* React is created by Facebook
* React uses JSX syntax. It is the combination of HTML embedded in JavaScript
* To Create a react application, the official tool available is create-react-app
* Create-react-app is a node(npm) based CLI [Command Line Interface] tool
* Using create-react-app we can easily create a fully functional react application
* Create-react-app includes additional project config tools like webpack, babel & ESLint
* Command to install create-react-app (npm i -g create-react-app --- Global installation)
* To Run the React application “npm start” command is used
* React server uses port number 3000 to deploy and run the react application
* Component can return a Single element only. Normally it will be a single <div> which contains many sub-element internally
* ES6 (ECMA – Electronics and Computer Manufacturing Association)
* ECMA will provide specification for JavaScript
* The official JavaScript name is ECMA Scrip. In Short it is ES.
* ES6 Features (classes, arrow functions, New variables creation method [let, const], Array methods[map(), sort(), filter(), destructuring, Modules, Ternary Operator(“?true section:false section” and Spread Operator (…)
* Class based components name should always start with Capital Letter only
* The Keyword “var” is used to create function scoped variable. (Inside function – function scope, inside block – function scope, outside function – global scope)
* The keyword “let & const” used to create block scoped variables

Each team 5 members

4 teams

Agile methodology. Only one Sprint

JSON Server (API Generation) – Minimum 5 End points

Consume the API in React APP.

Project Title (You can select, and let me know)

Use Github private repositories.

Syskantechnosoft – Github id. Add me as a collaborator in your github repo.

Team Name :

Project Title :

Team Members Name :

1 Scrum Master for each team :

function add(x,y) {

return (x+y);

}

const arrowFn=(x,y)=>x+y; // Functional Expression (A function stored in a variable)

Above is the example of arrow function with two arguments.

const arrowFn1=(x,y)=> {

return (x+y);

};

* Fat arrow syntax (“=>”)