Day7 Revisit

* React is a JS based Library used to create Rich UI.
* React is a Component Based Library
* React help us to create SPA (Single Page Application)
* Only one HTML file namely index.html
* Component is the re-usable piece code used to generate Dynamic & interactive UI
* React uses the Concept of Virtual DOM
* React uses JSX syntax (Combination of JS + XML [html tags can be added with javascript])
* React is developed by facebook.
* Component is a kind of Stick note that you can paste it on top of the Single Page (index.html)
* When we create a React application, it will automatically create a Root Component (App.js)
* Using React, we can create custom HTML tags
* Two types of components defined in React (Class based and function based component)
* Class based component is also called as Stateful component
* Function based component is also called as Stateless component
* Class based component example

import React from ‘react’;

class MyComponent extends React.Component {

render() {

return <div> This is Class based Component </div>

}

}

export default MyComponent;

* Function based component Example

import React from ‘react’;

function FirstComponent() {

return <div> This is a Function based component </div>

}

Export default FirstComponent;

* State and props in React (Both are objects)
* Props are collection of properties or attributes associated to a Component
* For Example: <MyComponent name=”ABC” message=”Welcome to React” />
* {this.props.name} {this.props.message}
* State is also an object but it is immutable and private to component.
* State can be added to class based component with the help of constructor.
* Relationship between components.
* To build react application, use create-react-app CLI (Command Line Interface)
* NodeJS is the required tool to create and run react applications
* Steps to Create react application
  + Install NodeJS
  + Create a new folder and Open it in VSCode
  + Open the Terminal
  + Check node & npm version (node -v, npm -v)
  + npx create-react-app first-app
  + cd first-app
  + npm start

<https://www.w3school.com> (Learn React)

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<https://getbootstrap.com/>

npm install bootstrap

import 'bootstrap/dist/css/bootstrap.min.css';

Parent component send the data to child component using the props.

Child couldn’t directly send the data using props.

<https://www.youtube.com/watch?v=0riHps91AzE>

Agenda

* React Routing
* Axios
* Axios vs fetch()
* Intercomponent communication

Life cycle methods of React Component (Creation & Destruction)

Phases – Mounting Phase, Updating Phase, Unmounting Phase

Mounting (componentDidMount()) Creation Phase

Update (componentDidUpdate())

UnMounting (componentWillUnmount) destruction phase