**React Js Udemy**

**About React :**

React is a javascript library for building fast and interactive user interfaces.

* React is used to design views.
* React gives you absolute control.
* React can be used in parts of existing web app.
* Social medias made using react : Fb, insta, twitter, amazon prime, Netflix.

**Single page application(SPAs)**

A single page app is an app that works inside a browser and doesn’t require page reload during use.

* No page reloads.
* No extra wait time.

It is just one HTML page that you visit which then loads all other contents using Javascript.

**JSX**

* It allows us to define react elements using syntax that looks very similar to HTML.
* It converts the JSX code to React using an inbuilt Js library called babble.

**Key**

Key helps React identify which items have changed from the dynamically generated list items.

* A key should uniquely identify a list item among its siblings.
* A key should be given to the outer most elements which is being rendered inside the list.

Component

Component lets you to split the UI into independent, reusable pieces. A component is a Javascript class or function that optionally accept some data and returns a React elements that describes how a section of the UI should appear.

**Stateful components**

* These are the components WITH state.
* They are used when you want to add a functionality.
* They have a state object.
* They keep a track of changing data via the state object.

**Stateless components**

* These are the components WITHOUT state.
* They are used to just show something on the screen.
* They do not have a state object.
* These print out what is given to them via props, or they always render the same thing.