React components can be created using constants, class and function

To use css need below installation

npm install style-loader css-loader --save-dev

style-loader – to apply the style

css-loader – to load css file

to use bootstrap need below installation

npm install --save jquery popper.js bootstrap

in vendor.js

import ‘jquery’

import ‘popper.js/dist/umd/popper.js’

import ‘bootstrap/dist/js/bootstrap.js’

import ‘bootstrap/dist/css/bootstrap.css’

to create a webpack project with all configuarations automatically use below command

npx create-react-app my-react-app

We have 2 ways to store data In react

props – immutable, holds data coming from parent component or the data which is passed at the time rendering the component.

state – mutable, it is generally maintained by parent or top most components and it passed to descendent components using props.

State is maintained in the constructors and to modify the state depending on user action

Event handling is required.

Event handling in react is a synthetic event handling which is cross browser wrapper around native events.

Layout – Main Comp

| |

Header Footer

|

Title

Links

What is React.js?

<https://reactjs.org/>

Videos :

<https://www.youtube.com/watch?v=N3AkSS5hXMA>

Why React JS?

* Virtual DOM

<https://reactjs.org/docs/faq-internals.html>

<https://www.codecademy.com/articles/react-virtual-dom>

Videos :

https://www.youtube.com/watch?v=QBcCXLP5LVg

* Unidirectional Dataflow

<https://flaviocopes.com/react-unidirectional-data-flow/#:~:text=Working%20with%20React%20you%20might%20encounter%20the%20term%20Unidirectional%20Data%20Flow.&text=In%20general%20this%20concept%20means,view%20and%20to%20child%20components>

Videos :

<https://www.youtube.com/watch?v=Z32ZVuHxCwk>

* Client-side and Server-side rendering

<https://www.freecodecamp.org/news/server-side-rendering-your-react-app-in-three-simple-steps-7a82b95db82e/#:~:text=What's%20the%20difference%20between%20client,React%20components%20on%20the%20server>.

Videos :

<https://www.youtube.com/watch?v=BmK7xAvL2N4>

Environment Set-up

* Webpack

<https://webpack.js.org/concepts/>

* Babel

<https://babeljs.io/>

* Node JS

<https://nodejs.org/en>

Videos :

Webpack & Babel

<https://www.youtube.com/watch?v=deyxI-6C2u4>

Browser Development Tools

* React Developer Tools

<https://chrome.google.com/webstore/detail/react-developer-tools/fmkadmapgofadopljbjfkapdkoienihi?hl=en#:~:text=React%20Developer%20Tools%20is%20a,%22%20and%20%22%E2%9A%9B%EF%B8%8F%20Profiler%22>.

Videos :

<https://www.youtube.com/watch?v=wxHxYfTe58g>

* React Detector

<https://chrome.google.com/webstore/detail/react-detector/jaaklebbenondhkanegppccanebkdjlh#:~:text=react%2Ddetector&text=Detects%20ReactJS%20apps%20as%20you,ReactJS%20apps%20as%20you%20browse.&text=x%20React%20no%20longer%20adds,anything%20but%20the%20root%20element>).

Create React App

<https://reactjs.org/docs/create-a-new-react-app.html>

Videos :

<https://www.youtube.com/watch?v=80fwnW78DJs>

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

**Module2 : JSX**

Simple React Component

<https://dev.to/vonheikemen/creating-react-components-using-only-es5-features-52a1>

<https://www.c-sharpcorner.com/blogs/how-to-create-a-component-in-react-using-es6>

Videos :

<https://www.youtube.com/watch?v=oYspSD04HJE>

What is JSX?

<https://reactjs.org/docs/introducing-jsx.html>

<https://reactjs.org/docs/jsx-in-depth.html>

<https://www.reactenlightenment.com/react-jsx/5.1.html>

Video : https://www.youtube.com/watch?v=7fPXI\_MnBOY

Precompiled JSX

<https://newfivefour.com/reactjs-precompiling-babel-jsx-files.html>

Videos :

<https://www.youtube.com/watch?v=N6tCUV6wPnM>

Expression and Attributes

<https://reactjs.org/docs/introducing-jsx.html>

**Module 3 : React.js Component**

React Components

* Class Component

<https://www.digitalocean.com/community/tutorials/react-class-component>

* Functional Component

<https://codeburst.io/react-js-understanding-functional-class-components-e65d723e909>

Videos :

<https://www.youtube.com/watch?v=lnV34uLEzis>

<https://www.youtube.com/watch?v=59NQoowgb2s>

Styling React Component

* Custom Style

<https://www.w3schools.com/react/react_css.asp>

Videos :

<https://www.youtube.com/watch?v=LcI9yn7fZxk>

* Using Bootstrap

<https://react-bootstrap.github.io/getting-started/introduction/>

Videos :

<https://www.youtube.com/watch?v=GBu1XPGJeu0>

Props & State

* Props
* What are props?

<https://reactjs.org/docs/components-and-props.html>

Videos :

<https://www.youtube.com/watch?v=m7OWXtbiXX8>

* Default value for props & propsType

<https://reactjs.org/docs/typechecking-with-proptypes.html>

Videos :

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

State

* What is State?
* How to modify State?

<https://reactjs.org/docs/faq-state.html>

Videos :

<https://www.youtube.com/watch?v=4ORZ1GmjaMc>

Props Vs State

<https://flaviocopes.com/react-state-vs-props/#:~:text=In%20a%20React%20component%2C%20props,can%20be%20initialized%20by%20props>

Videos :

<https://www.youtube.com/watch?v=IYvD9oBCuJI>

Events

* Synthetic Events
* Event Pooling

<https://reactjs.org/docs/events.html>

Videos :

<https://www.youtube.com/watch?v=Znqv84xi8Vs>

Composition Vs Inheritance

* Benefits of Composition

<https://reactjs.org/docs/composition-vs-inheritance.html>

Videos :

<https://www.youtube.com/watch?v=MSn0UOOGBWU>