React JS

Vscode teknik ctrl+D to edit both opening and closing tag, probably using prettier extension in vs code?

Javascript library for building fast and interactive user interfaces

Components

Piece of UI. Reusable

Root component – represents the internal application

State – data that we want to display when the component is rendered

Render – responsible for describing what we want to display

React Element or Virtual DOM

Represents DOM element (Real DOM)

Angular is framework while React is a Library. React handles the view

SETUP

Install node js

Use the NPM to install react library

Run this in cmd: npm i -g create-react-app

Add extension in vs code. Simple React snippet

Add extension prettier code formatter

Using code editor (vs code) new terminal then type npx create-react-app app-name

This will install: development server, webpack, babel – modern js compiler. From jsx to plain js

SRC files

Index.js -

React Hooks

They let you use state and other React features without writing a class.

**When would I use a Hook?** If you write a function component and realize you need to add some state to it, previously you had to convert it to a class. Now you can use a Hook inside the existing function component. We’re going to do that right now!

UseState

Import React, {useState} from ‘react’

Const [varstatename, functionname] = useState(<initialvalue>)

Redux

Redux is built on top functional programming

State management library for JavaScript applications

Makes states predictable

Maintainable

\*\*makes state passed to other components??

Functional Programming

One of the programming paradigms. Focuses more on functions

Decomposing a problem into small reusable functions

First class citizens? Assign to a variable, pass as an argument, return from other functions

Currying?

Redux Architecture

Store – storage for states. Anything that represents the data of the application

Has a dispatch method.

Calls the reducer

Sets the state

Action – describes what happened. Also called events

Reducer – pure function. Event handlers

Steps

Npm I redux redux-react

Npm I immer

Design store

Define actions

Create a reducer

Set up store based on reducer

Better tutorial https://www.youtube.com/watch?v=k68j9xlbHHk