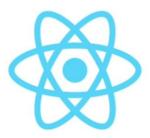
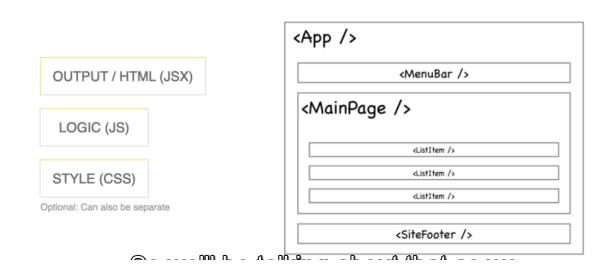
WHAT IS REACT?

A JavaScript library / framework created and maintained by Facebook that is used for building user interfaces

React gives us a way to build websites & UIs with organized and reusable components



UI COMPONENTS



WHAT YOU SHOULD KNOW

- ✓ JavaScript Basics Data structures, loops, functions, etc.
- ✓ High Order Array Methods forEach, map, filter, reduce
- Arrow Functions
- ✓ Async Programming & Fetch API
- ✓ NPM (Node Package Manager)

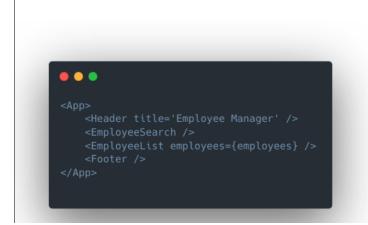


WHY LEARN REACT?

- Organization
- **W** Reusable
- Popularity & Support
- ✓ Performance



DECLARATIVE CODE



React is very declarative.

We can picture the result of this code by the declarative elements

Components

Props

State

Events

3. Environment Setup

4. Code Repos

2. React Basics & JSX

1. Feedback Project Intro

2. Create React App

npx create-react-app Keep-Note --use-npm

```
C:\Users\Dell\Desktop\Sudip>npx create-react-app keep-note --use-npm
Creating a new React app in C:\Users\Dell\Desktop\Sudip\keep-note.
Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts with cra-template...
added 1394 packages in 6m
210 packages are looking for funding
 run `npm fund` for details
Initialized a git repository.
Installing template dependencies using npm...
added 56 packages in 31s
210 packages are looking for funding
 run `npm fund` for details
Removing template package using npm...
removed 1 package, and audited 1450 packages in 10s
210 packages are looking for funding
 run `npm fund` for details
6 high severity vulnerabilities
To address all issues (including breaking changes), run:
 npm audit fix --force
Run `npm audit` for details.
Created git commit.
Success! Created keep-note at C:\Users\Dell\Desktop\Sudip\keep-note
```

```
Success! Created keep-note at C:\Users\Dell\Desktop\Sudip\keep-note
Inside that directory, you can run several commands:

npm start
   Starts the development server.

npm run build
   Bundles the app into static files for production.

npm test
   Starts the test runner.

npm run eject
   Removes this tool and copies build dependencies, configuration files and scripts into the app directory. If you do this, you can't go back!

We suggest that you begin by typing:

cd keep-note
   npm start

Happy hacking!
```

C:\Users\Dell\Desktop\Sudip\keep-note>code .
C:\Users\Dell\Desktop\Sudip\keep-note>

You can now view keep-note in the browser.

Local: http://localhost:3000
On Your Network: http://192.168.1.68:3000

Note that the development build is not optimized. To create a production build, use npm run build.

webpack compiled successfully

3. Initializing React

```
JS App.js U # index.css M
          Js index.js M X
           src > JS index.js
             1
                 import React from 'react'
                 import ReactDOM from 'react-dom'
             4 import './index.css'
                 import App from './App'
                ReactDOM.render(
                <React.StrictMode>
                <App />
                </React.StrictMode>
                 , document.getElementById('root'))
src > JS App.js > [∅] default
      function App(){
           return <h1> Hello form the app component</h1>
  3
  4
  5
  6 export default App
```

Hello form the app component

4. Intro To JSX

```
src > JS App.js > ...
      function App(){
  2
          return (
  3
              <div className="container">
  4
              <h1> My App</h1>
  5
  6
              </div >
  7
  8
  9
 10
      export default App
 11
 12
 13
 14
      // import React from 'react'
 15
      // function App(){
 16
      // return React.createElement(
 17
     //
                 'div',
 18
                  {className: 'container'},
 19
     //
 20
      //
             React.createElement('h1', {}, 'My App')
 21 //
 22 // }
 22
         JS index.js
            import React from 'react'
            import ReactDOM from 'react-dom'
            import './index.css'
            import App from './App'
            ReactDOM.render(
            <React.StrictMode>
            <App />
            </React.StrictMode>
            , document.getElementById('root'))
```

5. Dynamic Values & LIsts in JSX

```
JS App.is U X
               # index.css M
src > JS App.js > ♦ App > ♦ comments.map() callback
 13
       function App(){
 14
           const title = 'Blog Post'
           const body = 'This is my blog post'
 15
 16
           const comments = [
              {id:1, text: 'Comment one'},
 17
               {id:2, text: 'Comment two'},
 18
 19
               {id:3, text: 'Comment three'},
 20
 21
           return (
               <div className="container">
 22
 23
               <h1> {title.toUpperCase()}</h1>
 24
                {body}
 25
               <div className="comments">
 26
                   <h3> Comments ({comments.length})</h3>
 27
                   <l
 28
                       {comments.map((comment, index) => (
 29
                           {comment.text}
 30
 31
                       ))}
                   32
               </div>
 33
 34
               </div >
        )
 35
 36
 37
       export default App
 38
 20
```

BLOG POST

This is my blog post

Comments (3)

- Comment one
- Comment two
- · Comment three

6. Conditionals in JSX

```
src > JS App.js > ♦ App > [∅] commentBlock
 22
          const loading = false
          const showComments = true
 23
 24
 25
          if(loading) return <h1> Loading...</h1>
 26
 27
          const commentBlock = (
              <div className="comments">
 28
                  <h3> Comments ({comments.length})</h3>
 29
 30
                  <l
                      {comments.map((comment, index) => (
 31
 32
                          {comment.text}
 33
                      ))}
                  34
              </div>
 35
 36
 37
          return (
              <div className="container">
 38
              <h1> {title.toUpperCase()}</h1>
 39
               {body}
 40
 41
 42
              {showComments && commentBlock}
 43
 44
 45
              </div >
       )
 46
 47
 48
      export default App
 49
```

BLOG POST

This is my blog post

Comments (3)

- Comment one
- · Comment two
- · Comment three