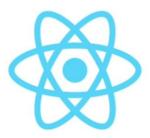
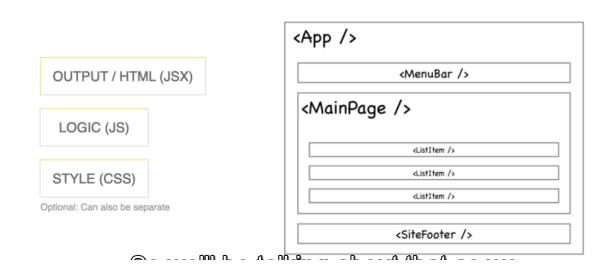
WHAT IS REACT?

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)

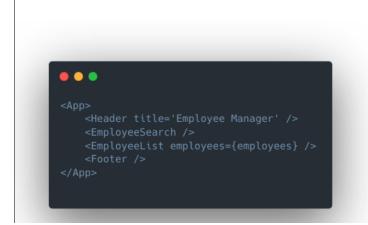


WHY LEARN REACT?

- 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

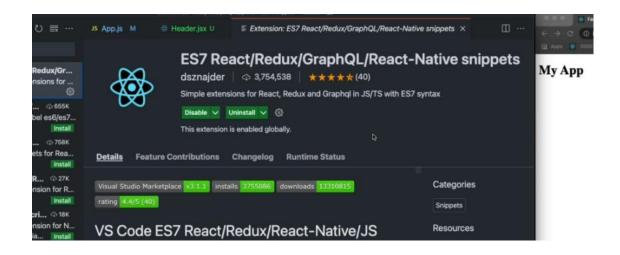
This is my blog post

Comments (3)

- Comment one
- · Comment two
- · Comment three

3. Components, Props & State

1. Creating Your First Component & Props



rfce

```
JS App.js U
                 # index.css M
                                   JS Header.jsx U •
src > components > JS Header.jsx > ♦ header
       import React from 'react'
  1
   2
       function header() {
  3
          return (
   5
            <div>header</div>
         )
   6
  7
  8
       export default header
                                   Activate Wind
```

```
JS App.js U X JS Header.jsx U
 src > JS App.js > [❷] default
  56
        import Header from "./components/Header"
  57
        function App(){
  58
             return (
  59
  60
                 <>
                 <Header/>
  61
                 </>
  62
         )
  63
  64
        export default App
  65
  66
                JS Header.jsx U X
JS App.js U
src > components > JS Header.jsx > [∅] default
       import PropTypes from 'prop-types'
  1
  2
  3
       function header({ text}) {
  4
         return (
           <header>
  5
  6
                <div className="container">
  7
                <h2>{text}</h2>
  8
  9
                </div>
 10
           </header>
 11
 12
         )
 13
 14
 15
       header.defaultProps = {
           text: 'Feedback UI',
 16
 17
 18
 19
       Headers.propTypes = {
           text:PropTypes.string
 20
 21
 22
 23
       export default header
```

2. Adding Styles To A Component

```
src > JS App.js > ♦ App
       function App(){
 58
           return (
 59
 60
               <>
 61
               <Header bgColor = 'red' textColor='blue'/>
               <div className="container">
 62
 63
                   <h1>Keep Notes</h1>
 64
               </div>
               </>
 65
 66
        )
 67
 68
       export default App
```

```
JS App.js U
                JS Header.jsx U X
src > components > JS Header.jsx > ⇔ header > ۞ constructor > [∅] headerStyles
       import PropTypes from 'prop-types'
  1
  2
  3
       function header({ text, bgColor, textColor}) {
  4
  5
            const headerStyles ={
  6
                backgroundColor: bgColor,
                  color: textColor,
  7
  8
  9
         return (
 10
 11
           <header style={headerStyles }>
 12 >
                <div className="container">...
                </div>
 15
 16
            </header>
 17
 18
 19
```

JS App.js U

5

6 7

8 9

10

11

15 16

21

22 23

24 25 26

27

28 29

30

31 32 33

12 >

return (

JS App.js U X

55

src > JS App.js > ♦ App

JS Header.jsx U

```
56
                                                      import Header from "./components/Header"
                                                57
                                                 58
                                                      function App(){
                                                           return (
                                                 59
                                                 60
                                                               <>
                                                 61
                                                               <Header />
                                                 62
                                                               <div className="container">
                                                                   <h1>Keep Notes</h1>
                                                 63
                                                 64
                                                               </div>
                                                 65
                                                               </>
                                                       )
                                                 66
                                                 67
                JS Header.jsx U X
                                                 68
                                                      export default App
src > components > JS Header.jsx > ...
                                                 69
                                                 70
           const headerStyles ={
               backgroundColor: bgColor,
                 color: textColor,
           <header style={headerStyles }>
               <div className="container">...
               </div>
           </header>
       header.defaultProps = {
           text: 'Feedback UI',
           bgColor: 'rgba(0,0,0,0.4)',
           textColor: '#ff6a95'
       Headers.propTypes = {
           text:PropTypes.string,
           bgColor: PropTypes.string,
           textColor:PropTypes.string,
       export default header
```

3. State & useState Hook

```
JS App.js U
                JS FeedbackItem.jsx U X
src > components > JS FeedbackItem.jsx > ♦ FeedbackItem
       import {useState} from 'react'
  2
  3
       function FeedbackItem() {
  4
           const [rating, setRating] = useState(7)
           const [text, setText] = useState('This is an example of feedback item')
  5
  6
           const handleClick = () =>{
                setRating((prev) => {
  7
  8
                    console.log(prev)
  9
                    return prev +1
 10
                })
 11
         return (
 12
           <div className="card">
 13
           <div className="num-display">{rating}</div>
 14
 15
           <div className="text-display">{text} </div>
           <button onClick={handleClick}>Click</button>
 16
           </div>
 17
 18
 19
 20
       export default FeedbackItem
 21
```

```
src > JS App.js > [6] default
       import Header from "./components/Header"
 54
       import FeedbackItem from "./components/FeedbackItem"
 55
 56
 57
       function App(){
 58
            return (
 59
                <Header />
 60
 61
                <div className="container">
                                                     18
                     <FeedbackItem/>
 62
                </div>
 63
                                                     This is an example of feedback item
 64
                </>>
                                                      Click
 65
        )
 66
 67
       export default App
 68
```

4. Managing Global State

```
src > components > JS FeedbackItem.jsx > ♦ FeedbackItem
           function FeedbackItem({item}) {
 13
         return (
           <div className="card">
           <div className="num-display">{item.rating}</div>
 15
           <div className="text-display">{item.text} </div>
 16
           {/* <button onClick={handleClick}>Click</button> */}
 17
           </div>
 18
 19
 20
 21
       export default FeedbackItem
 22
```

```
src > JS App.js > ...
55
       import { useState } from 'react'
       import Header from "./components/Header"
  56
        import FeedbackData from './data/FeedbackData'
  57
       import FeedbackList from './components/FeedbackList'
  58
  59
        function App(){
  60
            const [feedback, setFeedback] = useState(FeedbackData)
  61
  62
            return (
                <>
  63
  64
                <Header />
                <div className="container">
  65
                    <FeedbackList feedback={feedback}/>
  66
  67
  68
                </div>
                </>
  69
        )
  70
  71
  72
        export default App
```

```
src > components > JS FeedbackList.jsx > ...
       import FeedbackItem from "./FeedbackItem"
  2
  3
       function FeedbackList({feedback}) {
           if(!feedback || feedback.length ===0){
  4
              return  No Feedback Yet
  6
  7
       return (
  8
          <div className="feedback-list">
          {feedback.map((item) => (
  9
               <FeedbackItem key= {item.id} item = {item}/>
 10
          ))}
 11
           </div>
 12
 13
 14
 15
      export default FeedbackList
 16
```

5. Card Component & Conditional Styles

src > components > JS FeedbackItem.jsx > 😝 FeedbackItem

import PropTypes from 'prop-types'

```
src > components > JS FeedbackList.jsx > 😝 FeedbackList
 18
       FeedbackList.propTypes ={
           feedback: PropTypes.arrayOf(
 19
 20
               PropTypes.shape({
                    id: PropTypes.number.isRequired,
 21
 22
                    text:PropTypes.string.isRequired,
 23
                    rating: PropTypes.number.isRequired,
 24
               })
 25
 26
```

```
src > components > shared > JS Card.jsx > 😫 Card
       import PropTypes from 'prop-types'
 11
       function Card({children, reverse}) {
 12
 13
           return (
             <div
 14
             className= 'card'
 15
             style={{
 16
               backgroundColor:reverse ? 'rgba(2, 2, 42, 0.9)' : '#fff',
 17
               color: reverse ? '#fff' :'#000',
 18
             }}
 19
 20
                 {children}
 21
 22
             </div>
 23
         }
 24
 25
         Card.defaultProps ={
 26
 27
           reverse: true,
 28
         }
 29
 30
       Card.propTypes = {
 31
           children: PropTypes.node.isRequired,
           reverse: PropTypes.bool,
 32
 33
 34
 35
       export default Card
```

6. Events & Prop Drilling

```
src > JS App.js > ♦ App > 🔊 deleteFeedback
       function App(){
 61
 62
           const [feedback, setFeedback] = useState(FeedbackData)
 63
           const deleteFeedback = (id) => {
 64
               console.log(Object);
 65
 66
 67
                  JS FeedbackList.jsx U
                                         JS FeedbackItem.jsx U
                                                                 JS Card.jsx U
 JS App.js U X
 src > JS App.js > ♦ App > [∅] deleteFeedback
• 55
         import { useState } from 'react'
   56
         import Header from "./components/Header"
   57
         import FeedbackData from './data/FeedbackData'
         import FeedbackList from './components/FeedbackList'
         import Card from "./components/shared/Card"
   59
         function App(){
   60
   61
             const [feedback, setFeedback] = useState(FeedbackData)
   62
   63
             const deleteFeedback = (id) => {
   64
                 if(window.confirm('Are you sure you want to delete?')){
   65
                      setFeedback(feedback.filter((item) => item.id !== id))
   66
   67
   68
             }
   69
   70
             return (
   71
   72
                 <>
                 <Header />
   73
                 <div className="container">
   74
                      <FeedbackList feedback={feedback}</pre>
   75
                          handleDelete = {deleteFeedback}
   76
   77
                      />
   78
                      <Card>
   79
                          Hello
                      </Card>
   80
   81
   82
                 </div>
```

```
JS App.js U JS FeedbackList.jsx U JS FeedbackItem.jsx U
                                                             JS Card.jsx U X
src > components > shared > JS Card.jsx > 😫 Card
       import PropTypes from 'prop-types'
 11
       function Card({children, reverse}) {
 12
           return (
 13
             <div
 14
             className= 'card'
 15
 16
             style={{
              backgroundColor:reverse ? 'rgba(2, 2, 42, 0.9)' : '#fff',
 17
              color: reverse ? '#fff' :'#000',
 18
            }}
 19
 20
             >
 21
              {children}
 22
             </div>
 23
 24
         }
 25
 26
         Card.defaultProps ={
 27
           reverse: true,
         }
 28
 29
 30
       Card.propTypes = {
 31
           children: PropTypes.node.isRequired,
 32
           reverse: PropTypes.bool,
 33
 34
 35
       export default Card
```

```
JS App.js U
                JS FeedbackList.jsx U
                                       JS FeedbackItem.jsx U X
                                                              JS Card.jsx U
src > components > JS FeedbackItem.jsx > ♀ FeedbackItem > ♀ constructor
 12
       import {FaTimes} from 'react-icons/fa'
 13
       import PropTypes from 'prop-types'
 14
       import Card from './shared/Card'
 15
           function FeedbackItem({item, handleDelete}) {
 16
 17
         return (
 18
 19
           <Card>
           <div className="num-display">{item.rating}</div>
 20
           <button onClick={() => handleDelete(item.id))} className='close'>
 21
 22
            <FaTimes color='purple'/>
 23
           </button>
           <div className="text-display">{item.text} </div>
 24
 25
           {/* <button onClick={handleClick}>Click</button> */}
 26
           </Card>
 27
 28
 29
 30
       FeedbackItem.propTypes ={
         item: PropTypes.object.isRequired
 31
 32
 33
       export default FeedbackItem
```

```
JS FeedbackList.jsx U X
JS App.js U
                                       JS FeedbackItem.jsx U
src > components > JS FeedbackList.jsx > ♀ FeedbackList > ♀ constructor
       import PropTypes from 'prop-types'
  2
  3
       import FeedbackItem from "./FeedbackItem"
  4
       function FeedbackList({feedback, handleDelete}) {
  5
           if(!feedback | | feedback.length ===0){
  6
  7
               return  No Feedback Yet
  8
  9
         return (
           <div className="feedback-list">
 10
           {feedback.map((item) => (
 11
               <FeedbackItem</pre>
 12
 13
               key= {item.id}
 14
               item = {item}
               handleDelete={handleDelete}
 15
 16
           ))}
 17
 18
           </div>
 19
 20
 21
       FeedbackList.propTypes ={
 22
 23
           feedback: PropTypes.arrayOf(
 24
               PropTypes.shape({
 25
                    id: PropTypes.number.isRequired,
                    text:PropTypes.string.isRequired,
 26
                    rating: PropTypes.number.isRequired,
 27
 28
               })
 29
 30
```

7. FeedbackStats Component & Reactivity

```
JS FeedbackStats.jsx U X
JS App.js U
src > components > JS FeedbackStats.jsx > ♀ FeedbackStats
       import PropTypes from 'prop-types'
  2
  3 function FeedbackStats({feedback}) {
     // Calculate rating Average
  4
  5
      let average = feedback.reduce((acc, cur) =>{
  6
  7
          return acc +cur.rating
       },0) / feedback.length
  8
  9
 10
       average = average.toFixed(1).replace(/[.,]0$/, '')
 11
 12
         return (
 13
           <div className="feedback-stats">
               <h4>{feedback.length} Reviews</h4>
 14
               <h4> Average Rating: {isNaN(average) ? 0 : average}</h4>
 15
 16
           </div>
         )
 17
 18
 19
       FeedbackStats.propTypes = {
 20
           feedback: PropTypes.array.isRequired,
 21
 22
 23
      export default FeedbackStats
 24
```

4. Forms, Validation & Simple Animation

1. Form Input & State

```
JS App.js U
                JS FeedbackStats.jsx U
                                         JS FeedbackForm.jsx U •
src > components > JS FeedbackForm.jsx > ♦ FeedbackForm
       import { useState } from "react"
       import Card from "./shared/Card"
       function FeedbackForm() {
  3
  4
  5
           const [text, setText] = useState('')
            const handleTextChange= (e) => {
  6
  7
                setText(e.target.value)
  8
  9
         return (
           <Card>
 10
           <form>
 11
                <h2>How Would you rate your service with us?</h2>
 12
                {/* @todo - rating select component */}
 13
                <div className="input-group">
 14
 15
                    <input</pre>
                    onChange={handleTextChange}
 16
                    type= 'text'
 17
                    placeholder="Write a review"
 18
                        value = {text}
 19
 20
                    />
 21
                    <button type="submit">Send</button>
                </div>
 23
           </form>
           </Card>
 24
 25
         )
 26
 27
       export default FeedbackForm
```

2. Custom Button Component

```
# index.css M
                 JS Button.jsx U X
src > components > shared > JS Button.jsx > 😫 Button
       import PropTypes from 'prop-types'
  2
       function Button({children, version, type, isDisabled}) {
  3
       return (
       <button type={type} disabled ={isDisabled} className={`btn</pre>
  4
  5
       btn-${version}`}>
       {children}
  7
       </button>
  8
  9
 10
       Button.defaultProps ={
 11
           version: 'primary',
 12
           type: 'button',
 13
           isDisabled: false,
 14
 15
 16
       Button.propTypes = {
 17
           children: PropTypes.node.isRequired,
 18
           version: PropTypes.string,
 19
 20
           type: PropTypes.string,
           isDisabled: PropTypes.bool,
 21
 22
       export default Button
 23
```

3. Real-Time Validation

```
JS FeedbackForm.jsx U X
src > components > JS FeedbackForm.jsx > ♦ FeedbackForm > [∅] handleTextChange
       import { useState } from "react"
  1
       import Card from "./shared/Card"
  2
       import Button from "./shared/Button"
  3
       function FeedbackForm() {
  4
  5
           const [text, setText] = useState('')
  6
           const [btnDisabled, setBtnDisabled] = useState(true)
  7
           const [message, setMessage] =useState('')
  8
  9
           const handleTextChange= (e) => {
 10
                if(text === ''){
                    setBtnDisabled(true)
 11
 12
                    setMessage(null)
                } else if(text !== '' && text.trim().length <= 10){</pre>
 13
                    setMessage('Text must be at least 10 characters')
 14
 15
                    setBtnDisabled(true)
 16
                } else {
                    setMessage(null)
 17
                    setBtnDisabled(false)
 18
 19
 20
                setText(e.target.value)
 21
         return (
 22
```

4. Rating Select Component

```
JS RatingSelect.jsx U X
                                               JS FeedbackForm.jsx U
                                               src > components > JS RatingSelect.jsx > ♦ RatingSelect
                                                       import {useState} from 'react'
                                                  2
                                                       function RatingSelect({select}) {
                                                  3
                                                  4
                                                            const [selected, setSelected] =useState(10);
                                                  5
                                                          const handleChange = (e) =>{
                                                                setSelected(+e.currentTarget.value)
                                                  6
                                                  7
                                                                select(+e.currentTarget.value)
                                                  8
                                                  9
                                                         return (
                                                 10
                                                            >
                                                 11
                                                                <input</pre>
                                                 12
                                                                type='radio'
                                                 13
                                                 14
                                                                id='num1'
                                                                name='rating'
                                                 15
                                                                value='1'
                                                 16
                                                                onChange={handleChange}
                                                 17
                                                                checked={selected ===1}
                                                 18
                      JS RatingSelect.jsx U X
JS FeedbackForm.jsx U
                                                 19
src > components > JS RatingSelect.jsx > ♦ RatingSelect
                                                                <label htmlFor='num1'>1</label>
                                                 20
                                                            21
 24
          <1i>>
 25
              <input</pre>
 26
              type='radio'
              id='num2'
 27
              name='rating'
 28
              value='2'
 29
              onChange={handleChange}
 30
              checked={selected ===2}
 31
              />
 32
 33
              <label htmlFor='num2'>2</label>
          34
 35
          <1i>>
 36
 37
              <input</pre>
              type='radio'
              id='num3'
 39
 40
              name='rating'
              value='3'
 41
 42
              onChange={handleChange}
              checked={selected ===3}
 43
 44
 45
              <label htmlFor='num3'>3</label>
 46
```

```
JS FeedbackForm.jsx U JS RatingSelect.jsx U X

src > components > JS RatingSelect.jsx > 🔾 RatingSelect
```

```
<1i>>
48
              <input
49
              type='radio'
50
51
              id='num4'
52
              name='rating'
              value='4'
53
              onChange={handleChange}
54
              checked={selected ===4}
55
56
57
              <label htmlFor='num4'>4</label>
58
          59
          <1i>>
60
              <input</pre>
61
62
              type='radio'
              id='num5'
63
              name='rating'
64
              value='5'
65
              onChange={handleChange}
66
67
              checked={selected ===5}
68
              <label htmlFor='num5'>5</label>
69
          70
          <
71
72
          <input</pre>
73
          type = 'radio'
          id='num6'
74
75
          name='rating'
          value ='6'
76
```

```
JS FeedbackForm.jsx U
                         JS RatingSelect.jsx U X
src > components > JS RatingSelect.jsx > ♦ RatingSelect
            value ='6'
 76
 77
            onChange={handleChange}
            checked={selected ===6}
  78
  79
            />
            <label htmlFor=''num6>6</label>
  80
  81
            82
            <1i>>
  83
  84
            <input</pre>
            type = 'radio'
  85
  86
            id='num7'
            name='rating'
  87
            value ='7'
  88
  89
            onChange={handleChange}
            checked={selected ===7}
  90
  91
            />
            <label htmlFor=''num7>7</label>
  92
            93
  94
            <1i>>
  95
  96
            <input</pre>
            type = 'radio'
  97
            id='num8'
  98
            name='rating'
 99
            value ='8'
100
101
            onChange={handleChange}
            checked={selected ===8}
102
103
            />
104
            <label htmlFor=''num8>8</label>
```

```
JS FeedbackForm.jsx U
                        JS RatingSelect.jsx U X
 src > components > JS RatingSelect.jsx > ♦ RatingSelect
 101
            onChange={handleChange}
            checked={selected ===8}
 102
 103
            />
            <label htmlFor=''num8>8</label>
 104
 105
            106
            <1i>>
 107
 108
            <input</pre>
            type = 'radio'
 109
            id='num10'
 110
 111
            name='rating'
            value ='10'
112
 113
            onChange={handleChange}
            checked={selected ===10}
 114
            />
 115
 116
            <label htmlFor=''num10>10</label>
            117
 118
            119
 120
 121
 122
 123
        export default RatingSelect
 124
```

```
JS FeedbackForm.jsx U X
                       JS RatingSelect.jsx U
src > components > JS FeedbackForm.jsx > ♦ FeedbackForm
 24
         return (
 25
           <Card>
           <form>
 26
                <h2>How Would you rate your service with us?</h2>
 27
               {/* @todo - rating select component */}
 28
 29
                <RatingSelect select= {(rating) => setRating(rating)} />
 30
 31
                <div className="input-group">
 32
                    <input</pre>
 33
                    onChange={handleTextChange}
 34
 35
                    type= 'text'
                    placeholder="Write a review"
 36
                        value = {text}
 37
 38
                    />
 39
                    <Button type="submit" isDisabled={btnDisabled}>Send/Button>
 40
                </div>
                {message && <div className="message">{message}</div>}
 41
 42
           </form>
           </Card>
 43
 44
         )
 45
 46
       export default FeedbackForm
```

5. Add Feedback

```
JS FeedbackForm.jsx U
                       JS App.js U X JS RatingSelect.jsx U
src > JS App.js > ♦ App > 🔊 addFeedback
       // )
 49
      // }
 50
 51
 52
       // export default App
      import FeedbackItem from "./components/FeedbackItem"
 53
       import {v4 as uuidv4 } from 'uuid'
 55
       import { useState } from 'react'
       import Header from "./components/Header"
 56
       import FeedbackData from './data/FeedbackData'
 57
 58
       import FeedbackList from './components/FeedbackList'
       import Card from "./components/shared/Card"
 59
       import FeedbackStats from './components/FeedbackStats'
 60
       import FeedbackForm from './components/FeedbackForm'
 61
       function App(){
 62
 63
 64
           const [feedback, setFeedback] = useState(FeedbackData)
 65
           const addFeedback =(newFeedback) =>{
 66
               newFeedback.id = uuidv4()
 67
             setFeedback([newFeedback, ...feedback])
 68
 69
 70
 71
           const deleteFeedback = (id) => {
               if(window.confirm('Are you sure you want to delete?')){
 72
 73
                   setFeedback(feedback.filter((item) => item.id !== id))
 74
 75
```

```
JS FeedbackForm.jsx U
                         JS App.js U X
                                          JS RatingSelect.jsx U
src > JS App.js > ...
 77
 78
            return (
  79
                <>
                <Header />
  80
                <div className="container">
  81
                <FeedbackForm handleAdd ={addFeedback} />
  82
                <FeedbackStats feedback= {feedback}/>
  83
  84
                     <FeedbackList feedback={feedback}</pre>
  85
                         handleDelete = {deleteFeedback}
  86
                     />
  87
                     <Card>
  88
                         Hello
 89
                     </Card>
 90
 91
 92
                </div>
 93
                </>
        )
 94
  95
  96
       export default App
  97
```

```
JS FeedbackForm.jsx U X
                        JS App.js U JS RatingSelect.jsx U
src > components > JS FeedbackForm.jsx > ♦ FeedbackForm > 🕪 handleSubmit
           const [message, setMessage] =useState('')
 10
            const handleTextChange= (e) => {
 11
 12
                if(text === ''){
                    setBtnDisabled(true)
 13
 14
                    setMessage(null)
                } else if(text !== '' && text.trim().length <= 10){</pre>
 15
                    setMessage('Text must be at least 10 characters')
 16
 17
                    setBtnDisabled(true)
                } else {
 18
                    setMessage(null)
 19
                    setBtnDisabled(false)
 20
 21
                setText(e.target.value)
 22
 23
 24
 25
           const handleSubmit = (e) => {
 26
                e.preventDefault()
                if(text.trim().length >10 ) {
 27
                    const newFeedback = {
 28
 29
                        text,
                        rating,
 30
 31
 32
                    handleAdd(newFeedback)
 33
 34
                    setText('')
 35
 36
 37
         return (
 38
```

6. Fade Animation With Framer Motion

5. Creating Routes & Links

1. Creating Routes (React Router 5)

```
JS AboutPage.jsx U X
                    JS App.js U
src > pages > JS AboutPage.jsx > ♥ AboutPage
  1
       import Card from "../components/shared/Card"
  2
  3
        function AboutPage() {
          return <Card>
  4
  5
           <div className="about">
               <h1>About This Project</h1>
  7
               This is a React app to leave feedback for a product or service
  8
               Version: 1.0.0
  9
 10
               >
 11
 12
 13
               14
           </div>
 15
 16
 17
 18
          </Card>
 19
 20
 21
        export default AboutPage
```

```
JS AboutPage.jsx U
                    JS App.js U X
src > JS App.js > ♦ App
       import {BrowserRouter as Router, Route } from' react-router-dom'
 55
       import { useState } from 'react'
56
       import Header from "./components/Header"
 57
       import FeedbackData from './data/FeedbackData'
 58
 59
       import FeedbackList from './components/FeedbackList'
 60
       import Card from "./components/shared/Card"
       import FeedbackStats from './components/FeedbackStats'
 61
 62
       import FeedbackForm from './components/FeedbackForm'
 63
       import AboutPage from './pages/AboutPage'
```

2. Upgrading To React Router 6

```
JS App.js U X
JS AboutPage.jsx U
src > JS App.js > ♦ App
 82
                <Header />
                <div className="container">
 83
 84
                <Routes>
 85
                <Route exact path='/' element ={
 86
                <FeedbackForm handleAdd ={addFeedback} />
                <FeedbackStats feedback= {feedback}/>
 88
                <FeedbackList feedback={feedback} handleDelete =</pre>
 89
                {deleteFeedback}/>
 90
 91
 92
 93
                    </>>
 94
                }>
```

3. Creating Links (v5 & v6)

```
JS App.js U
                                       JS AboutIconLink.jsx U X
JS AboutPage.jsx U
src > components > JS AboutIconLink.jsx > ♦ AboutIconLink
       import {FaQuestion} from 'react-icons/fa'
       import {Link} from 'react-router-dom'
  3
  4
       function AboutIconLink() {
  5
         return (
  6
            <div className='about-link'>
  7
            <Link to='/about'>
                <FaQuestion size={30}/>
  8
  9
            </Link>
 10
            </div>
 11
         )
 12
 13
 14
       export default AboutIconLink
 15
```

```
JS AboutPage.jsx U X
                  JS App.js U
                                JS AboutlconLink.jsx U
src > pages > JS AboutPage.jsx > ♦ AboutPage
      import Card from "../components/shared/Card"
      import {Link} from 'react-router-dom'
       function AboutPage() {
        return <Card>
          <div className="about">
  5
  6
             <h1>About This Project</h1>
  7
             This is a React app to leave feedback for a product or service
  8
             Version: 1.0.0
  9
 10
                 <Link to='/'>Back To Home</Link>
 11
 12
 13
 14
          </div>
 15
 16
         </Card>
 17
 18
 19
       export default AboutPage
 20
   JS AboutPage.jsx U
                           JS App.js U X
                                             JS AboutlconLink.jsx U
   src > JS App.js > ♦ App
     80
                return (
     81
     82
                     <Router>
     83
                     <Header />
     84
                     <div className="container">
                     <Route path='/'>
     85
     86
                     <FeedbackForm handleAdd ={addFeedback} />
                     <FeedbackStats feedback= {feedback}/>
     87
     88
                     <FeedbackList feedback={feedback} handleDelete =</pre>
     89
     90
                     {deleteFeedback}/>
                     </Route>
     91
     92
                     <Route path="/about " component={ AboutPage}/>
     93
     94
     95
                    <AboutIconLink/>
     96
                     </div>
     97
                     </Router>
            )
     98
     99
```

export default App

100

4. NavLink & useParams

```
JS AboutPage.jsx U
                    JS App.js U
                                     JS Post.jsx U X
src > components > JS Post.jsx > ♦ Post
       import {useParms} from 'react-router-dom'
  1
  2
  3
       function Post() {
  4
           const params = useParams()
  5
         return (
           <div>
  6
  7
           <h1>Posst {params.id}</h1>
  8
           Posst {params.id}
           </div>
  9
        )
 10
 11
       }
 12
 13
       export default Post
```

5. Navigate & Nested Routes

```
JS Post.jsx U X
src > components > JS Post.jsx > ...
       import {Navigate, useNavigate} from 'react-router-dom'
  2
  3
       function Post() {
  4
           const status = 200
  5
           const navigate = useNavigate()
  6
  7
           const onClick= () =>{
  8
               console.log("hello")
               navigate('/about')
  9
 10
 11
           if(status ===404){
 12
 13
               return <Navigate to='notfound'/>
 14
 15
         return (
 16
           <div>
           <h1>Post</h1>
 17
 18
           <button onClick={onClick}>Click</button>
 19
       <Routes>
           <Route path='/show' element= {<h1> Hello World</h1>}/>
 20
 21
       </Routes>
           </div>
 22
 23
 24
 25
       export default Post
 26
```