

Week3 React_Introduction_Vite_Terminal

1. create	npm create vite@latest my-app -- --template react
2. move directory	cd my-app
3. install	npm install
4. run	npm run dev
5. install bootstrap	npm i bootstrap
6. import bootstrap	main.jsx > import 'bootstrap/dist/css/bootstrap.css';
7-1. adding routing	npm i react-router-dom
7-2. import routing	main.jsx > import {BrowserRouter as Router} from "react-router-dom"

Week4 React_Components_State_EventHandling

```
import Book from "../book";
const BooksList = ({book s=[], onDelete f=>f})
=> {
  if(books.length===0) return <h2>Currently there are no books</h2>
  return (
    <section>
      <h6>Showing {books.length} books</h6>
      <table className="table">
        <thead>
          <tr>
            <th>Id
            <th>Title
            <th>Category
            <th>Author
            <th>Number in Stock
            <th>Price
            <th>Year
            <th>Liked
          </tr>
        </thead>
        <tbody>
          {books.map(book => <Book
            key={book._id}
            book={book}
            onDelete={onDelete}
          />)}
        </tbody>
      </table>
    </section>
  )
}
```

Week4 React_Components_State_EventHandling (cont)

```
<tr>
  <th>Action(s)</th>
</tr>
</thead>
<tbody>
  {books.map(book=><Book
    key={book._id}
    book={book}
    onDelete={onDelete}
  />)}
</tbody>
</table>
</section> );
}

export default BooksList;
```

Week5 Rendering Images

Rendering Images - assets	const images = import.meta.glob("../assets/images/*.jpg,png,svg", {eager: true});
(1)	
Rendering Images - assets	const imageUrl = Object.values(images).map((img) => img.default);
(2)	
Rendering Images - public	

Week5 React_Hooks_StateInTrees_Forms_Code

```
//sfc
import { useState } from "react";
const AddColor = ({onAdd=f=>f}) => {
  const [title, setTitle] = useState("");
  const [color, setColor] = useState("#000000");
}
```



Week5 React_Hooks_StateInTrees_Forms_Code (cont)

```
> const submitColor=(event)=>{
  event.preventDefault();
  onAdd(title,color);
  setTitle("");
  setColor("#000000")
}
return (<
<h4>You can add a new color here.</h4>
<form onSubmit={submitColor}>
  <input type="text"
    value = {title}
    required
    placeholder="color title"
    onChange={(event)=>setTitle(event.target.value)}
  />
  <input type="color"
    value={color}
    onChange={(event)=>setColor(event.target.value)}
    required/>
  <button>Add Color</button>
</form>
</> );
}

export default AddColor;
```

Week6 React Routers - Define Router

```
// main.jsx
import {BrowserRouter as Router} from "react-router-dom"
createRoot(document.getElementById('root')).render(
  <StrictMode>
    <Router>
```

Week6 React Routers - Define Router (cont)

```
> <App />
</Router>
</StrictMode>,
)
```

Week6 React Routers - 404

```
import {useLocation} from "react-router-dom"
const Whoops404 = () => {
  const location = useLocation();
  return ( <div>
    <h1>Page not Found at {location.pathname}</h1>
  </div> );
}

export default Whoops404;
```

Week5 React_Hooks_StateInTrees_Forms_Code

```
function App() {
  const [colors, setColors] = useState(colorData)
  //function to remove a color
  const deleteColor = (id)=>{
    const updateColors = colors.filter(c => c.id !== id);
    setColors(updateColors);
  }
  //function to change rating
  const rateColor= (nRating, id) =>{
    const updateColors = colors.map(c =>{
      color.id === id ? {...c, rating: nRating} : c;
    });
    setColors(updateColors);
  }
  //function to add new Color
  const addColor = (title, color) =>{
```

Week5 React_Hooks_StateInTrees_Forms_Code (cont)

```
> const newColors = [...colors,
  {id:v4(),
    title,color, rating:0, img:"yellow.jpg"
  }
]
setColors(newColors);
}
return (
  <div>
    <Header title="This is my Color List."/>
    <AddColor onAdd = {addColor}/>
    <ColorList
      colors={colors}
      onDelete = {deleteColor}
      onRate = {rateColor}
    />
    <Footer/>
  </div>
)
}
export default App
```

Week6 React Routers - Adding Routing

```
import { Routes, Route, Navigate, useNavigate }
from "react-router-dom";
function App() {
  return (
    <div>
      <NavBar />
      <Routes>
        <Route path="/" element={
          <Home />
        } />
        <Route path="/about" element={
          <About />
        } />
      </Routes>
    </div>
  );
}
```

Week6 React Routers - Adding Routing (cont)

```
> {/ nested routes /}
<Route path="history" element={<History />} />
<Route path="services" element={<Services />} />
<Route path="locations" element={<Locations />} />
</Route>
{/ Multiple route/path parameters -- REQUIRED /}
{/ <Route path="/events/:month/:year" element={<Event-
Details />} /> /}
<Route path="/events" element={<Events />} />
{/ Multiple route/path parameters -- OPTIONAL /}
<Route path="/events/:month?/:year?" element={<Event-
Details />} />
<Route path="/products" element={<Products />} />
{/ Route/Path Parameters /}
<Route path="/products/:id" element={<ProductDetails />} />
/>
{/ for paths which do not match the paths given above /}
<Route path="*" element={<Whoops404 />} />
{/ Redirecting /}
<Route path="/services" element={<Navigate to="/ab-
out/services" />} />
</Routes>
</div>
);
}
export default App;
```

Week6 React Routers - Placeholder Components

```
import { Outlet, Link, useParams, useLocation }
from "react-router-dom";
import queryString from "query-string";
export const Home = () => {
  return (
    <div>
      <h1>Shopping App</h1>
    </div>
  );
}
```



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 Page 3 of 4.

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Week6 React Routers - Placeholder Components (cont)

```
> );  
};  
export const About = () => {  
  return (  
    <div>  
      <h1>About</h1>  
      <Outlet/>  
    </div>  
  );  
};  
export const EventDetails = ()=>{  
  const {month,year} = useParams();  
  const location = useLocation();  
  const obj = queryString.parse(location.search)  
  return <div>  
    <h6>Event Details: Month {month} and Year {year}</h6>  
  </div>  
}  
export const Products = () => {  
  return (  
    <div>  
      <h1>Products</h1>  
      <ul style={{fontSize:"2em", listStyleType:"none"}}>  
        <li><Link to="1">Product 1</Link></li>  
        <li><Link to="2">Product 2</Link></li>  
        <li><Link to="3">Product 3</Link></li>  
      </ul>  
    </div>  
  );  
};
```

Week6 React Routers - Placeholder Components (cont)

```
> export const ProductDetails = () => {  
  const products = [  
    { id: 1, name: "Laptop", desc: "About Laptops..." },  
    { id: 2, name: "Notepad", desc: "About Notepads..." },  
    { id: 3, name: "Smart Phone", desc: "About Smart Phones..." },  
  ];  
  let { id } = useParams();  
  id = parseInt(id);  
  const product = products.find((prod) => prod.id == id);  
  return (  
    <>  
      <h2>Product Details</h2>  
      <p>Name: {product.name}</p>  
      <p>Description: {product.desc}</p>  
    </>  
  );  
};
```



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