

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=[], onDele te= f=>f})
=> {
  if( boo ks.l en gth ===0) return <h2>Cu -
rrently there are no books< /h2>
  return ( <se cti on>
    <h6>Sh owing {books.le ngth}
books< /h6>
    <table classN ame ="ta ble ">
      <thead>
        <tr>
          <th>Id -
        </th>
          <th>Ti -
          tle </th>
          <th>Ca -
          teg ory </th>
          <th>Au -
          tho r</ th>
          <th>Number
          in Stock< /th>
          <th>Pr -
          ice </th>
          <th>Ye -
          ar< /th>
          <th>Li -
          ked </th>
        </tr>
      </thead>
      <tbody>
        {books.map(book=><Book
          key={book._id}
          book = {book}
          onDelete = {onDelete}
        />)}
      </tbody>
    </table>
  </section> );
}
```

Week4 React_Components_State_EventHandling (cont)

```
>
  <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 (1)	const images = import.meta.glob("../assets/ima- ges/*.jpg,png,svg", {eager: true});
Rendering Images - assets (2)	const imageList = Object.values(images).ma- p((img) => img.default);
Rendering Images - public	

Week5 React_Hooks_StateInTrees_Forms_Code

```
//sfc
import { useState } from "rea ct";
const AddColor = ({onAd d=f =>f}) => {
  const [title ,se tTitle] = useSta -
  te( " ");
  const [color ,se tColor] = useSta te( " -
  #00 000 0")
```



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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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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