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## # Context API

- ① Create Context
- ② Provider
- ③ Consumer

in App.js

```
import { useState, createContext } from "react";

import Navbar from "./Components/Navbar";
import HeroSection from "./Components/HeroSection";
import UserCard from "./Components/UserCard";

export const myContext = createContext();

function App() {
  const [name, setName] = useState("");
  const [color, setColor] = useState("");

  const myname = (event) => {
    setName(event.target.value);
  };

  const myColor = (event) => {
    setColor(event.target.value);
  };

  return (
    <myContext.Provider value={{ name, color }}>
      <Navbar />
      <form>
        <input
          type="text"
          placeholder="Enter User Name"
          value={name}
          onChange={myname}
        />
        <input
          type="text"
          placeholder="Enter A color Name"
          value={color}
          onChange={myColor}
        />
      </form>
      <HeroSection />
    </myContext.Provider>
  );
}

export default App;
```

- ① import createContext from react
- ② Wrap the components with Provider
- ③

in Button.js

```
import React, { useContext } from "react";
import { myContext } from "../App";
export const Button = () => {
  const data = useContext(myContext);
  return <div style={{ backgroundColor: data.color }}> Button </div>;
};

function nameColon () {
  let [name, value] = event.target.value;
  setNameColon ((prev) => {
    [ ...prev, { name: value } ];
  });
}
```

Provider should always be before the app is getting started

in UserDetails.js

```
import React, { useContext } from "react";
import { myContext } from "../App";
const UserDetails = () => {
  const data = useContext(myContext);
  return <div> My Name is: {data.name} </div>;
};

export default UserDetails;
```

in User Cards.js

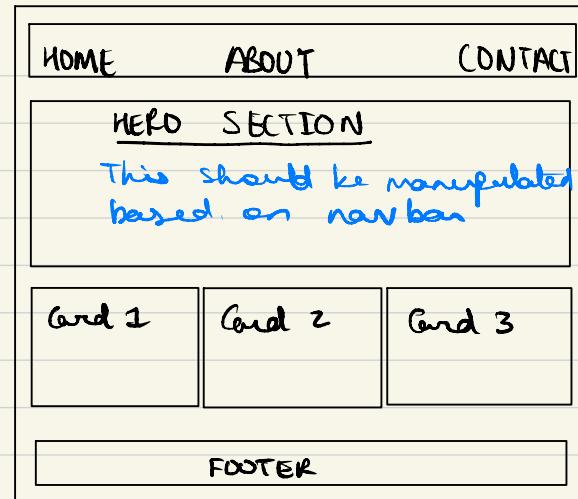
```
import React from "react";
import UserDetails from "./UserDetails";
import { Button } from "./Button";

const UserCard = () => {
  return (
    <div>
      <UserDetails />
      <Button />
    </div>
  );
};

export default UserCard;
```

\* used to avoid prop drilling

# Assignment :



## For Navbar

### Home

```
import React from "react";
const Body = () => {
  return <h1>Welcome to HomePage</h1>;
};

export default Body;
```

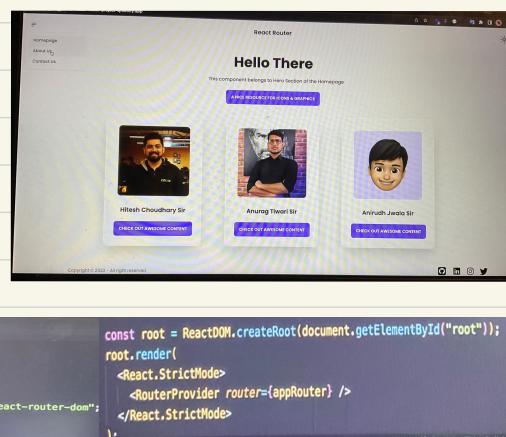
### index.js

```
import React from "react";
import ReactDOM from "react-dom/client";
import "./index.css";
import App from "./App";
import About from "./About";
import Contact from "./Contact";
import { createBrowserRouter, RouterProvider } from "react-router-dom";
import Error from "./Error";
import Body from "./Body";

const appRouter = createBrowserRouter({
  path: "/",
  element: <App />,
  errorElement: <Error />,
  children: [
    {
      path: "/",
      element: <Body />,
      children: [
        {
          path: "/contact",
          element: <Contact />,
        },
        {
          path: "/about",
          element: <About />,
        },
        {
          path: "/",
          element: <About />,
        },
      ],
    },
  ],
});
```

### Footer

```
import React from "react";
const Footer = ()=>{
  return(
    <div className="footer">
      <h3>@copyright 2023</h3>
    </div>
  )
}
export default Footer;
```



## Contact

```
import React from 'react';
const Contact = () => {
  return (
    <h3 className='text'>Contact us Page</h3>
  )
}

export default Contact
```

```
const root = ReactDOM.createRoot(document.getElementById("root"));
root.render(
  <React.StrictMode>
    <RouterProvider router={appRouter} />
  </React.StrictMode>
);
```

## App.js

```
import "./App.css";
import Footer from "./Footer";
import Header from "./Header";
import { Outlet } from "react-router-dom";

function App() {
  return (
    <div>
      <Header />
      {/* This element will render either
        <Outlet /> //Hero Section
        <Cards />           ||
        <Footer />
      </div>
    );
}

export default App;
```

```
import "./styles.css";
import { createContext, useState } from "react";
import Button from "./context";

export const myContext = createContext();

export default function App() {
  const [nameColour, setNameColour] = useState({
    name: "",
    colour: ""
  });
  function handlechange(event) {
    const { name, value } = event.target;
    setNameColour((prevDetails) => {
      return {
        ...prevDetails,
        [name]: value
      };
    });
  }
  return (
    <myContext.Provider value={{ namecolour }}>
      <div className="App">
        <h1>Hello CodeSandbox</h1>
        <h2>Start editing to see some magic happen!</h2>
        <input
          name="name"
          type="text"
          placeholder="Enter Name"
          onChange={handlechange}
        />
        <input
          name="colour"
          type="text"
          placeholder="Enter Colour"
          onChange={handlechange}
        />
        <p>(namecolour.name)</p>
        <p>(namecolour.colour)</p>
      </div>
      <Button />
    </myContext.Provider>
  );
}
```

```
import { myContext } from "./App";
import { useContext } from "react";

function Button() {
  let data = useContext(myContext);
  return (
    <button style={{ backgroundColor: `${data.namecolour.colour}` }}>
      Submit
    </button>
  );
}
export default Button;
```

- ① import createContext
- ② export const myContext = createContext();
- ③ Wrap up the components in return with <myContext.Provider>
- ④ in this mention the values on which you want to use Context API  
eg: Value = [{name, colour}]
- ⑤ In another file import useContext
- ⑥ let data = useContext (myContext)
- ⑦ Now access the data using {data...}