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Experiment 4e

Aim :- To create a simple interactive UI design using Material UI

Theory :-
Material UI is the most powerful and efficient tool to build an Application by adding Designs and Animations and using it with technical and scientific innovation.

It is basically a design language that was developed by Google in 2014. It uses more Design and Animations, grid-system and provides shadows and lightning effects.

It can be used with all the JavaScript frameworks like AngularJS, VueJS, and libraries like ReactJS, to make the Application more amazing and responsive.

With over 35,000 stars on GitHub, Material UI is one of the top User Interface libraries for React.

Features of Material UI:
● Material UI provides low-level utility functions called "style functions" for building powerful design systems.
● Access the theme values directly from the component props.
● Encourage UI consistency.
● Write a responsive style effortlessly.
● Work with any theme object.
● Less than KB gzipped.
● Fast enough to execute.

Conclusion :- Thus we have learned and successfully implemented the webpage using React and Material UI.

Code :-

```jsx
import React, { useState } from "react";
import { Box, Typography, TextField, Button } from
"@mui/material";
import LoginOutlinedIcon from
'@mui/icons-material/LoginOutlined';
import HowToRegOutlinedIcon from
'@mui/icons-material/HowToRegOutlined';
const Auth = () => {
const [isSignup, setSignup] = useState(false);
const [inputs, setInputs] = useState({
name: "",
email:"",
password:"",
})
const handleChange = (e) =>{
setInputs((prevState)=>({
...prevState,
[e.target.name]: e.target.value
}))
}
const handleSubmit = (e) =>{
e.preventDefault();
console.log(inputs);
}
const resetState = () =>{
setSignup(!isSignup)
setInputs({name:"",email:"",password:""})
}
return (
<div>
<form onSubmit={handleSubmit}>
<Box
display="flex"
flexDirection={"column"}
max-width={400}
alignItems={"center"}
justifyContent={"center"}
margin="auto"
marginTop={5}
padding={5}
borderRadius={5}
boxShadow={"5px 5px 10px #ccc"}
```

```jsx
            sx={{
              ":hover": {
                boxShadow: "10px 10px 20px #ccc",
              },
            }}
          >
            <Typography variant="h2" padding={3}
            textAlign="center">
              {isSignup ? "SignUp" : "Login"}
            </Typography>
            {isSignup && (
              <TextField name="name" value={inputs.name}
              onChange={handleChange}
              variant=""
              placeholder="Name"
              type={"text"}
              margin="normal"
              />
            )}
            <TextField name="email" value={inputs.email} onChange={handleChange}
            variant="outlined" placeholder="Email" type={"email"} margin="normal"/>
            <TextField name="password" value={inputs.password}
            onChange={handleChange} variant="outlined" placeholder="Password"
            type={"password"} margin="normal"/>
            <Button type="submit" variant="outlined" color="secondary" sx={{
            marginTop: 2, borderRadius: 2 }} > {isSignup ? "SignUp" :
            "Login"}</Button>

          </Box>
        </form>
      </div>
    );
  };
  export default Auth;
```

Output :-