Lab Experiment:10

Aim: design an attractive Login and Registration form using Material-UI. Use Validations to validation the error and prompt the errors on the webpage.

App.js

```js
import { useRef, useState } from "react";
import "./App.css";
import Login from "./components/Login";

function App() {
  return <Login />;
}

export default App;
```

components/login.js

```js
import React from "react";
import SignUp from "./SignUp";

const Login = () => {
  return (
    <div>
      <SignUp />
    </div>
  );
};

export default Login;
```

components/signup.js

```js
import * as React from "react";
import LockOutlinedIcon from "@mui/icons-material/LockOutlined";
import Avatar from "@mui/material/Avatar";
import Button from "@mui/material/Button";
import CssBaseline from "@mui/material/CssBaseline";
import TextField from "@mui/material/TextField";
import FormControlLabel from "@mui/material/FormControlLabel";
import Checkbox from "@mui/material/Checkbox";
import Link from "@mui/material/Link";
import Grid from "@mui/material/Grid";
import Box from "@mui/material/Box";
import Typography from "@mui/material/Typography";
import Container from "@mui/material/Container";
import { createTheme, ThemeProvider } from "@mui/material/styles";
import { checkValidData } from "../utils/validate";
```

```jsx
function Copyright(props) {
  return (
    <Typography
      variant="body2"
      color="text.secondary"
      align="center"
      {...props}
    >
      {"Copyright © "}
      <Link color="inherit" href="https://mui.com/">
        Your Website
      </Link>{" "}
      {new Date().getFullYear()}
      {"."}
    </Typography>
  );
}

// TODO remove, this demo shouldn't need to reset the theme.

const defaultTheme = createTheme();

export default function SignUp() {
  const [errormsg, setErrormsg] = React.useState(null);

  const firstName = React.useRef(null);
  const lastName = React.useRef(null);
  const email = React.useRef(null);
  const password = React.useRef(null);
  const handleButtonSubmit = () => {
    console.log(password);
    const msg = checkValidData(email.current.value, password.current.value);
    setErrormsg(msg);
    if (msg) return;
  };
  const handleSubmit = (event) => {
    event.preventDefault();
    const data = new FormData(event.currentTarget);
    console.log({
      email: data.get("email"),
      password: data.get("password"),
    });
  };

  return (
    <ThemeProvider theme={defaultTheme}>
      <Container component="main" maxWidth="xs">
        <CssBaseline />
```

```jsx
<Box
  sx={{
    marginTop: 8,
    display: "flex",
    flexDirection: "column",
    alignItems: "center",
  }}
>
  <Avatar sx={{ m: 1, bgcolor: "secondary.main" }}>
    <LockOutlinedIcon />
  </Avatar>
  <Typography component="h1" variant="h5">
    Sign up
  </Typography>
  <Box
    component="form"
    noValidate
    onSubmit={handleSubmit}
    sx={{ mt: 3 }}
  >
    <Grid container spacing={2}>
      <Grid item xs={12} sm={6}>
        <TextField
          ref={firstName}
          autoComplete="given-name"
          name="firstName"
          required
          fullWidth
          id="firstName"
          label="First Name"
          autoFocus
        />
      </Grid>
      <Grid item xs={12} sm={6}>
        <TextField
          ref={lastName}
          required
          fullWidth
          id="lastName"
          label="Last Name"
          name="lastName"
          autoComplete="family-name"
        />
      </Grid>
      <Grid item xs={12}>
        <TextField
          ref={email}
          required
```

```
            fullWidth
            id="email"
            label="Email Address"
            name="email"
            autoComplete="email"
          />
        </Grid>
        <Grid item xs={12}>
         <TextField
           ref={password}
           required
           fullWidth
           name="password"
           label="Password"
           type="password"
           id="password"
           autoComplete="new-password"
          />
        </Grid>
        <Grid item xs={12}>
          <FormControlLabel
            control={
              <Checkbox value="allowExtraEmails" color="primary" />
            }
            label="I want to receive inspiration, marketing promotions and updates via email."
          />
        </Grid>
      </Grid>
      <Button
        type="submit"
        fullWidth
        variant="contained"
        sx={{ mt: 3, mb: 2 }}
        onClick={handleButtonSubmit}
      >
        Sign Up
      </Button>
      <Grid container justifyContent="flex-end">
        <Grid item>
          <Link href="#" variant="body2">
            Already have an account? Sign in
          </Link>
        </Grid>
      </Grid>
    </Box>
   </Box>
  </Container>
</ThemeProvider>
```

```
  );
}
```

utils/validate.js

```
export const checkValidData = (email, password) => {
 const isEmailValid = /^([a-zA-Z0-9._%-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,})$/.test(
   email
 );
 const isPasswordValid =
  /^(?=.*\d)(?=.*[a-z])(?=.*[A-Z])(?=.*[a-zA-Z]).{8,}$/.test(password);
 if (!isPasswordValid) return "Password is not valid";
 if (!isEmailValid) return "Email ID is not valid";
 return null;
};
```

Output: