

Experiment 10

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

1) In components folder, make Signup.js, and design the Registration page

```
import * as React from "react";
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 LockOutlinedIcon from "@mui/icons-material/LockOutlined";
import Typography from "@mui/material/Typography";
import Container from "@mui/material/Container";
import { createTheme, ThemeProvider } from "@mui/material/styles";
import { checkValidData } from "../utils/validate";

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 handleSubmit = () => {
    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 />
        <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}
  />
  <Link href="#" variant="body2">
    Already have an account? Sign
  </Link>
  </Grid>
  </Grid>
  </Box>
  </Box>
  </Container>
  </ThemeProvider>
);
}

```

```

    />
  </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
    </Link>
  </Grid>
</Grid>
</Box>
</Box>
</Container>
</ThemeProvider>
);
}

```

2) Make the login page

```

JS Login.js U ●
src > components > JS Login.js > ...
1  import React from "react";
2  import SignUp from "../SignUp";
3
4  const Login = () => {
5    return (
6      <div>
7        <SignUp />
8      </div>
9    );
10 };
11
12 export default Login;

```

3) Adding a validation feature to check the inputs of the user

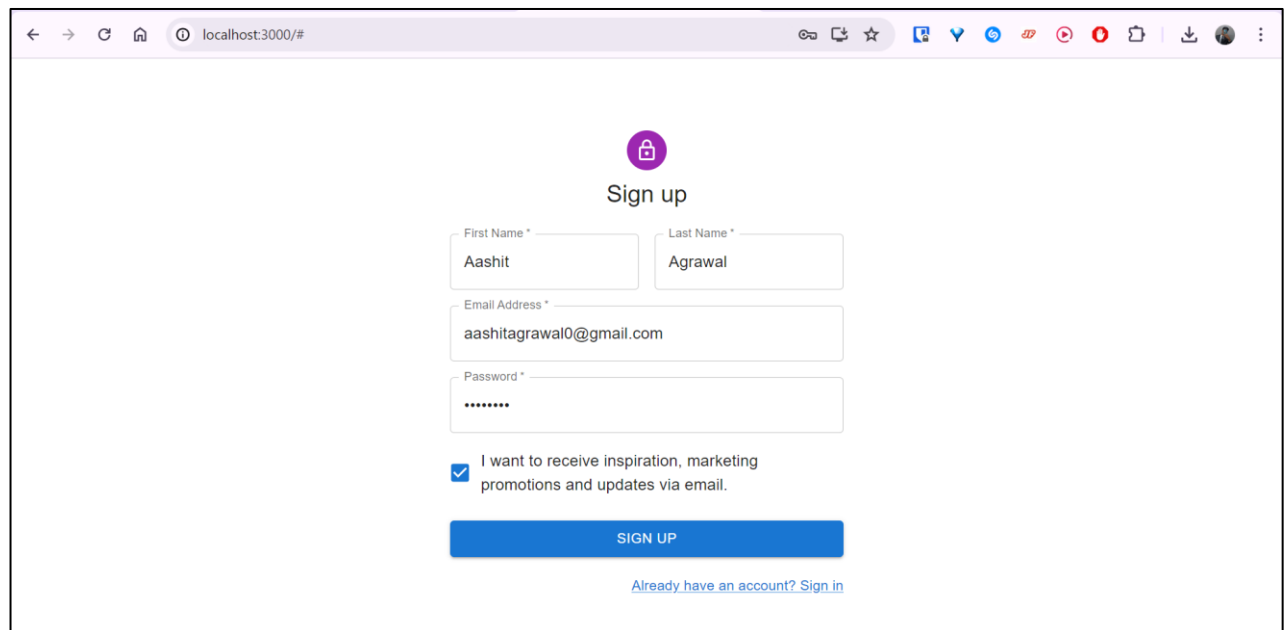
```

JS validate.js U ●
src > utils > JS validate.js > ...
1  export const checkValidData = (email, password) => {
2    const isEmailValid = /^[a-zA-Z0-9._%~-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}$/i.test(
3      email
4    );
5    const isPasswordValid =
6      /^(?=.*\d)(?=.*[a-z])(?=.*[A-Z])(?=.*[a-zA-Z]).{8,}$/i.test(password);
7    if (!isPasswordValid) return "Password is not valid";
8    if (!isEmailValid) return "Email ID is not valid";
9    return null;
10 };


```

4) Update the *App.js*

```
JS App.js 2, M ●
src > JS App.js > ...
1  import { useRef, useState } from "react";
2  import "../App.css";
3  import Login from "../components/Login";
4
5  function App() {
6    return <Login />;
7  }
8
9  export default App;
```

OUTPUT

localhost:3000/#



Sign up

First Name *
Aashit

Last Name *
Agrawal

Email Address *
aashitagrawal0@gmail.com

Password *

☒ I want to receive inspiration, marketing promotions and updates via email.

SIGN UP

[Already have an account? Sign in](#)

Discussions: This experiment explores the integration of Material-UI components for aesthetically pleasing login and registration forms while implementing validation to provide real-time error feedback.