## Using Material UI as Component User Interface Library

Web apps use HTML & CSS as source code for their interface. But it is a bit troublesome to create CSS styles for each component you want to create.

Luckily, now User interface libraries has been created to make it easier to create interfaces. For example: Tailwind, Bootstrap, and Material UI.

Now we will use Material UI for this project because of its ease of use.

We need to install Material UI in our project.

Open our last project ("Simple Login Page with CSS in React JS") with VS Code.

Run this command in VS Code terminal:

npm install @mui/material @emotion/react @emotion/styled

npm install @fontsource/roboto

npm install @mui/icons-material

For complete documentation about Material UI, you can visit this URL: https://mui.com/material-ui/getting-started/

## Open src/main.jsx file

```
src > 🏶 main.jsx
  1
      import React from "react";
      import ReactDOM from "react-dom/client";
  2
      import Login from "./Login.jsx";
  3
                                            Remove
      import "./index.css";
  4
                                             line 4
  5
      ReactDOM.createRoot(document.getElementById("root")).render(
  6
  7
           <React.StrictMode>
              <Login />
  8
           </React.StrictMode>
  9
 10
       );
 11
```

Remove line 4, so last CSS created file not interfered with new installed library

Open and replace **src/Login.jsx** with this code:

```
import * as React from "react";

import Button from "@mui/material/Button";
import CssBaseline from "@mui/material/CssBaseline";
import TextField from "@mui/material/TextField";
import Paper from "@mui/material/Paper";
import Box from "@mui/material/Box";
import Grid from "@mui/material/Grid";
import Typography from "@mui/material/Typography";
import { createTheme, ThemeProvider } from "@mui/material/styles";
```

```
const defaultTheme = createTheme();
export default function Login() {
    return (
        <ThemeProvider theme={defaultTheme}>
            <Grid container component="main" sx={{ height: "100vh" }}>
                <CssBaseline />
                <Grid
                    item
                    xs={false}
                    sm={4}
                    md={7}
                    SX={{
                         backgroundImage:
                             "url(https://source.unsplash.com/random?wallpapers)",
                         backgroundRepeat: "no-repeat",
                         backgroundColor: (t) =>
                             t.palette.mode === "light"
                                 ? t.palette.grey[50]
                                 : t.palette.grey[900],
                         backgroundSize: "cover",
                         backgroundPosition: "center",
                    }}
                />
                <Grid
                    item
                    xs = \{12\}
                    sm={8}
                    md={5}
                    component={Paper}
                    elevation={6}
                    square
                >
                    <Box
                         SX={{
                             my: 8,
                             mx: 4,
                             display: "flex",
                             flexDirection: "column",
                             alignItems: "center",
                         }}
                    >
                         <img
                             src="https://www.roomie.id/roomieweb/img/logo/roomie-logo-black.png"
                             width="200"
                         ></img>
                         <Typography component="h1" variant="h5">
                             Sign in
                         </Typography>
                         <Box component="form" noValidate sx={{ mt: 1 }}>
                             <TextField
                                 margin="normal"
                                 required
                                 fullWidth
                                 id="email"
                                 label="Email Address"
                                 name="email"
```

```
autoComplete="email"
                         autoFocus
                    />
                    <TextField
                         margin="normal"
                         required
                         fullWidth
                         name="password"
                         label="Password"
                         type="password"
                         id="password"
                         autoComplete="current-password"
                    />
                    <Button
                         type="submit"
                         fullWidth
                         variant="contained"
                         sx={{ mt: 3, mb: 2 }}
                         Sign In
                    </Button>
                </Box>
            </Box>
        </Grid>
    </Grid>
</ThemeProvider>
```

## Type this command in VS Code terminal to run project. npm run dev

);

}

