

PRAKTIKUM 7

LOGIN MENGGUNAKAN AKUN GMAIL

1. Dapatkan **OAuth 2.0 Client IDs** dari <https://console.cloud.google.com/>
2. Buat projek baru dengan nama **Login**, selanjutnya buka projek melalui visual studio code
3. Buka terminal, instal library berikut:
npm install @mui/material @emotion/react @emotion/styled
npm install react-router-dom
npm install @mui/icons-material
npm install @react-oauth/google@latest
npm install axios
4. Buka file Index.js, tambahkan kode berikut:

```
import React from 'react';
import ReactDOM from 'react-dom';
import { GoogleOAuthProvider } from '@react-oauth/google';
import { ThemeProvider, createTheme } from '@mui/material/styles';
import { CssBaseline } from '@mui/material';
import App from './App';
const theme = createTheme();
ReactDOM.render(
  <GoogleOAuthProvider clientId=" ">
    <ThemeProvider theme={theme}>
      <CssBaseline />
      <App />
    </ThemeProvider>
  </GoogleOAuthProvider>,
  document.getElementById('root')
);
```

5. Buka file App.js, tambahkan kode pengaturan route seperti berikut:

```
import React from 'react';
import { BrowserRouter as Router, Routes, Route } from 'react-router-dom';
import LoginForm from './LoginForm';
import Dashboard from './Dashboard';
function App() {
  return (
    <Router>
      <Routes>
        <Route path="/" element={<LoginForm />} />
        <Route path="/*" element={<Dashboard />} />
      </Routes>
    </Router>
  );
}
export default App;
```

6. Buat file baru simpan dengan nama file **LoginForm.js**, ketikkan kode berikut:

```
import React, { useState, useEffect } from 'react';
import { useGoogleLogin } from '@react-oauth/google';
import axios from 'axios';
import { Container, Paper, Typography, Box, TextField, Button } from '@mui/material';
import { useNavigate } from 'react-router-dom';

function LoginForm() {
  const [user, setUser] = useState(null);
  const [profile, setProfile] = useState(null);
  const [username, setUsername] = useState('');
  const [password, setPassword] = useState('');
  const [error, setError] = useState('');
  const navigate = useNavigate();
  const login = useGoogleLogin({
    onSuccess: (codeResponse) => setUser(codeResponse),
    onError: (error) => console.log('Login Failed:', error),
  });

  useEffect(() => {
    if (user) {
      axios
        .get(`https://www.googleapis.com/oauth2/v1/userinfo?access_token=${user.access_token}`, {
          headers: {
            Authorization: `Bearer ${user.access_token}`,
            Accept: 'application/json',
          },
        })
        .then((res) => {
          setProfile(res.data);
          localStorage.setItem('profile', JSON.stringify(res.data));
          navigate('/dashboard', { state: { profile: res.data } });
        })
        .catch((err) => console.log(err));
    }
  }, [user, navigate]);

  const handleSubmit = (e) => {
    e.preventDefault();
    if (username === 'admin' && password === '123') {
      const userProfile = {
        name: username,
        email: '',
        picture: '',
      };
      localStorage.setItem('profile', JSON.stringify(userProfile));
      navigate('/dashboard');
    } else {
      setError('Invalid username or password');
    }
  };

  return (
    <Container component="main" maxWidth="xs">
      <Paper elevation={3} sx={{ p: 4, mt: 8 }}>
        <Typography component="h1" variant="h5">
          Login
        </Typography>
        <Box component="form" onSubmit={handleSubmit} sx={{ mt: 1 }}>
          <TextField
            variant="outlined"
            margin="normal"
            required
            fullWidth
            id="username"
            label="Username"
            name="username"
            autoComplete="username"
            autoFocus
            value={username}
            onChange={(e) => setUsername(e.target.value)}
          />

```

```

<TextField
  variant="outlined"
  margin="normal"
  required
  fullWidth
  name="password"
  label="Password"
  type="password"
  id="password"
  autoComplete="current-password"
  value={password}
  onChange={(e) => setPassword(e.target.value)}/>
{error && <Typography color="error">{error}</Typography>}
<Button
  type="submit"
  fullWidth
  variant="contained"
  color="primary"
  sx={{ mt: 3, mb: 2 }}>
  Login
</Button>
<Typography align="center" variant="body1" gutterBottom>
  Or login with Google
</Typography>
<Button
  onClick={login}
  fullWidth
  variant="contained"
  color="secondary"
  sx={{ mt: 1 }}>
  Sign in with Google
</Button></Box></Paper>
</Container>
  </>
};
export default LoginForm;

```

7. Buat file baru simpan dengan nama file **Dashboard.js**, ketikkan kode berikut:

```
import React from 'react';
import { useLocation, useNavigate, Link, Route, Routes } from 'react-router-dom';
import { AppBar, Toolbar, Avatar, Drawer, List, ListItem, ListItemIcon, ListItemText, CssBaseline, Box, Typography } from '@mui/material';
import { Dashboard as DashboardIcon, ExitToApp } from '@mui/icons-material';
import { googleLogout } from '@react-oauth/google';
import { blue } from '@mui/material/colors';

function Dashboard() {
  const location = useLocation();
  const navigate = useNavigate();
  const profile = location.state?.profile || JSON.parse(localStorage.getItem('profile'));
  const logout = () => {
    googleLogout();
    localStorage.removeItem('profile');
    navigate('/');
  };
  if (!profile) {
    return (
      <Typography variant="h5" align="center" sx={{ mt: 4 }}>
        No profile found. Please login.
      </Typography>
    );
  }
  return (
    <Box sx={{ display: 'flex' }}>
      <CssBaseline />
      <AppBar position="fixed" sx={{ zIndex: (theme) => theme.zIndex.drawer + 1 }}>
        <Toolbar>
          <Typography variant="h6" sx={{ flexGrow: 1 }}>
            Dashboard
          </Typography>
          {profile && (
            <Typography variant="body1" sx={{ marginRight: 2 }}>
              {profile.name}
            </Typography>
            <Avatar src={profile.picture} alt="Profile Image" />
          )}
        </Toolbar>
      </AppBar>
      <Drawer
        variant="permanent"
        sx={{
          width: 240,
          flexShrink: 0,
          [`& .MuiDrawer-paper`]: { width: 240, boxSizing: 'border-box' },
        }}>
        <Toolbar />
        <List>
          <ListItem button component={Link} to="/dashboard">
            <ListItemIcon>
              <DashboardIcon />
            </ListItemIcon>
            <ListItemText primary="Dashboard" />
          </ListItem>
          <ListItem button onClick={logout}>
            <ListItemIcon>
              <ExitToApp sx={{ color: blue[500] }} />
            </ListItemIcon>
            <ListItemText primary="Logout" />
          </ListItem>
        </List>
      </Drawer>
```

```

<Box
  component="main"
  sx={{
    flexGrow: 1,
    p: 3,
    ml: '240px',
    mt: '64px',
  }}>
  <Toolbar />
  <Routes>
    <Route
      path="/dashboard"
      element={
        <div>
          <Typography variant="h4" gutterBottom>
            Welcome, {profile.name}
          </Typography>
          <Typography variant="h6">
            Email: {profile.email}
          </Typography>
          <img src={profile.picture} alt="User Profile" style={{ borderRadius: '50%', marginTop: '20px' }} />
        </div>
      }
    />
  </Routes>
</Box>
);
}
export default Dashboard;

```

Kegiatan Praktikum

Eksekusi semua modul praktikum sesuai dengan panduan yang tersedia, upload hasil praktikum seperti **index.js**, **App.js**, **LoginForm.js** dan **Dashboard.js**