

Component tree for student portal project in react.

```
App {  
  DataContext {year: '2023',  
    company: 'MIU',  
    email: 'admin@miu.edu'  
  }  
  <MasterPage />  
}
```

}→

```
MasterPage {  
  useContext(DataContext);  
  <thead><Dashboard/></thead>  
  <tbody>  
    props: { <all other  
      component in my projects  
      by using The Layout  
      Component pattern /> }  
  }</tbody>  
}
```

}→

```
Dashboard {  
  State: [isAuthenticated,  
    setIsAuthenticated] }  
  localStorage.getItem('authenticatedAdmin');  
  <Header />  
  <PageRoutes />  
  }→
```

```
Header {  
  handleLogout();  
  localStorage.removeItem('authenticatedAdmin');  
  }  
  Link title to other  
  components : <li><Link  
    to="/ListOfStudents">Students</Link></li>  
    <li><Link  
      to="/StudentForm">New Student</Link></li>  
    <li><Link  
      onClick={this.handleLogout}>Log Out</Link></li>  
}
```

PageRoutes{

```
loadUserData();

<Routes>

  <Route path="/"
  element={<Navigate
  replace to="/Login" />} />

  <Route
  path="/Login"
  element={<Login />} />

  <Route
  path="/ListOfStudents"
  element={<ListOfStudents
  />} />

  <Route
  path="/StudentForm"
  element={<StudentForm
  />} />

  <Route
  path="/updateStudent/:id"
  element={<UpdateStudent
  />} />

.... </Routes>

}→
```

Login{

```
[loginData, setLoginData] =
useState();

[msg, setMsg] =
useState(null)

handleInputChange();

login(){ for both admins
and students

};

}→ after the login we can
go to the following
components in student
project: →
```

- ListOfStudents
- StudentForm
- UpdateStudent
- StudentDetails

ListOfStudents{

```
[students, setStudents] =
useSt [studentsCopy,
setStudentsCopy] =
useState([])[searchQuery,
setSearchQuery] =
useState("");

navigate = useNavigate();

[isPending,
startTransition] =
useTransition();

useEffect(() => {

loadind data

}
```

}→

StudentFrom

```
useNavigate();

[studentData,
setStudentData] =
useState({});

useEffect(() =>
{loading data from
the back end}

handleInputChange
());
handleSubmit();
```

UpdateStudent{

{ id } = useParam();

[studentData,
setStudentData] = useState

}➔

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