

Overview

The solution is a full-stack implementation of a *Leave Management Form* with client and server-side validation. Users are seeded on application start-up. The *login page* requires *email* and *password* on login and uses token authorization via JWT.

Back-end

The API was implemented using **.NET 9.0** and connects to **LocalDB** instance of **SQLServer**. The data access uses EF Core and supports data migration. Data is seeded with the following users when the application starts:

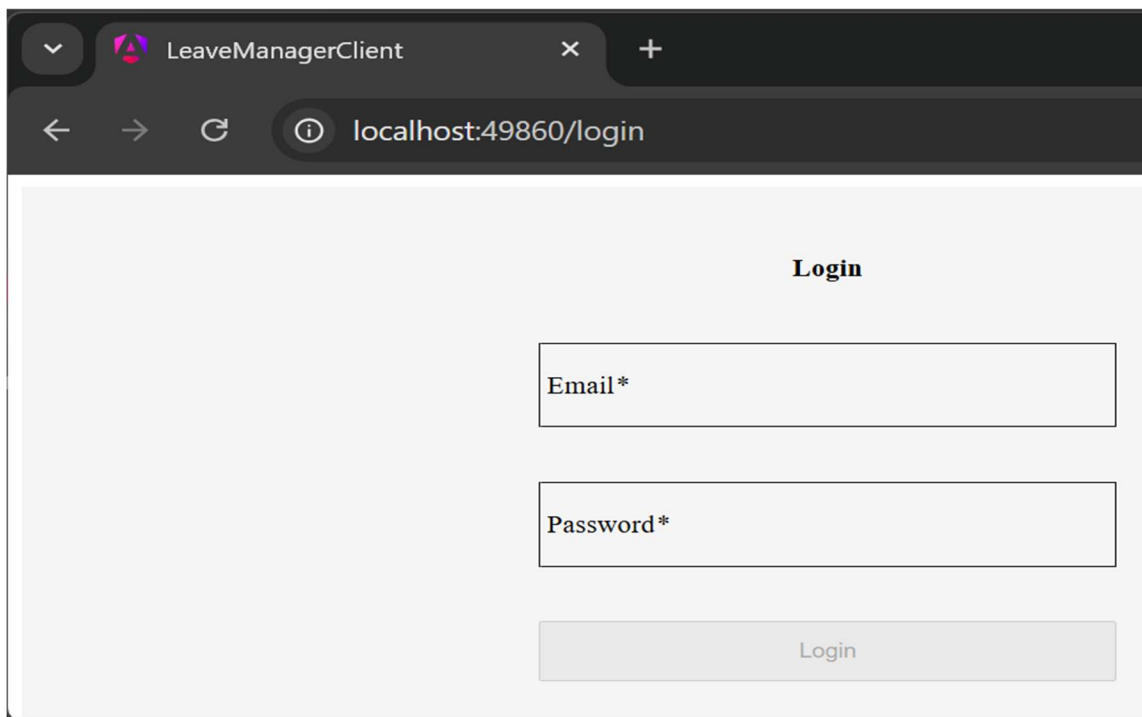
Name	Email
Mike Simmons	mike@mycompany.com
Leah Johnson	leah@mycompany.com
Ethan Castro	ethan@mycompany.com
Sandra Manager	sandra@mycompany.com
Paul Manager	paul@mycompany.com

Front-end

The client application is implemented using Angular 20. It has a login page that authenticates via email and password.

You can login the *Manager Account*: **paul@mycompany.com** / **@User456!**

Front-end runtime screenshots:



The screenshot shows a web browser window with the title 'LeaveManagerClient'. The address bar displays 'localhost:49860/login'. The page content is a login form with the heading 'Login' centered at the top. Below the heading, there are two input fields: 'Email*' and 'Password*'. At the bottom of the form is a 'Login' button. The browser's developer tools are open, showing the 'Elements' panel on the left and the 'Console' panel on the right, which contains a log message: 'Login successful'.

Leave Entry Form

New Leave Request

Applicant*

Leah Johnson

Manager*

Paul Manager

Start date*

10/31/2025

End date*

11/4/2025

Return Date*

Number of days*

3

General comments

Going on vacation for a few days.

33/500

Leave Type*

Annual

Submit

New Leave Request

Applicant*

Mike Simmons

Manager*

Sandra Manager

Start date*

11/10/2025

Paul Manager

Sandra Manager

Return Date*

Number of days*

0

General comments

0/500

Leave Type*

Annual

Submit