Out of office

Tech Stack:

.net core 8.0 web api
Microsoft.AspNetCore.OpenApi
SwashbuckleMicrosoft.AspNetCore
Microsoft.AspNetCore.Authentication.JwtBearer
Microsoft.AspNetCore.IdentityFrameworkCore
Microsoft.EntityFrameworkCore.Design
Microsoft.EntityFrameworkCore.Sqlite
SQLite

To realize this task was created backend application using web api technology and based on endpoints

After launching the application, the browser automatically opens a tab with all endpoints at the address:

http://localhost:5283/swagger/index.html

Create an SQL database with the above tables and fields.

The created database is inside the project:

out_of_office/out_of_office.db

Also the automatically created code to create the database is inside the project:

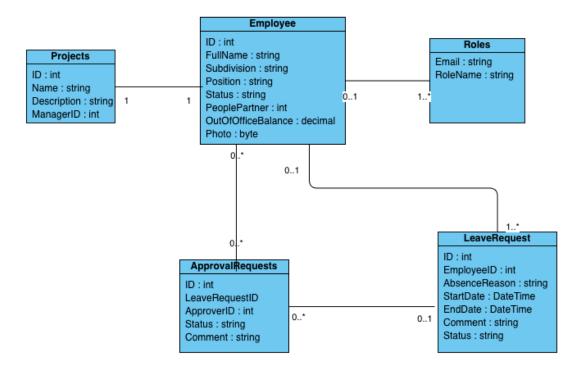
out_of_office/Migrations/

SQLite was chosen to create the database because of its ease of use, easy integration into the project.

Create migrations and database, after creating the necessary models console command: dotnet ef migrations add InitialCreate dotnet ef database update

Sql tables were created automatically, however from dbms we can see the commands to create these schemas:

```
CREATE TABLE "Employees" (
  "ID" INTEGER NOT NULL CONSTRAINT "PK_Employees" PRIMARY KEY AUTOINCREMENT,
  "FullName" TEXT NOT NULL.
  "Subdivision" TEXT NOT NULL.
  "Position" TEXT NOT NULL,
  "Status" TEXT NOT NULL.
  "PeoplePartner" INTEGER NULL,
  "OutOfOfficeBalance" TEXT NOT NULL,
  "Photo" BLOB NOT NULL
JULL CONSTRA
CREATE TABLE "LeaveRequests" (
  "ID" INTEGER NOT NULL CONSTRAINT "PK_LeaveRequests" PRIMARY KEY AUTOINCREMENT,
"EmployeeID" INTEGER NOT NULL,
  "AbsenceReason" TEXT NOT NULL,
  "StartDate" TEXT NOT NULL,
  "EndDate" TEXT NOT NULL,
  "Comment" TEXT NOT NULL,
"Status" TEXT NOT NULL
CREATE TABLE "ApprovalRequests" (
  "ID" INTEGER NOT NULL CONSTRAINT "PK_ApprovalRequests" PRIMARY KEY AUTOINCREMENT,
"ApproverID" INTEGER NOT NULL,
"LeaveRequestID" INTEGER NOT NULL,
  "Status" TEXT NOT NULL,
  "Comment" TEXT NOT NULL
CREATE TABLE "Projects" (
  "ID" INTEGER NOT NULL CONSTRAINT "PK_Projects" PRIMARY KEY AUTOINCREMENT,
  "ProjectType" TEXT NOT NULL,
  "StartDate" TEXT NOT NULL,
  "EndDate" TEXT NULL,
  "ProjectManagerID" INTEGER NOT NULL,
  "Comment" TEXT NOT NULL,
  "Status" TEXT NOT NULL
```



Create an application that will interact with the database.

Project link:

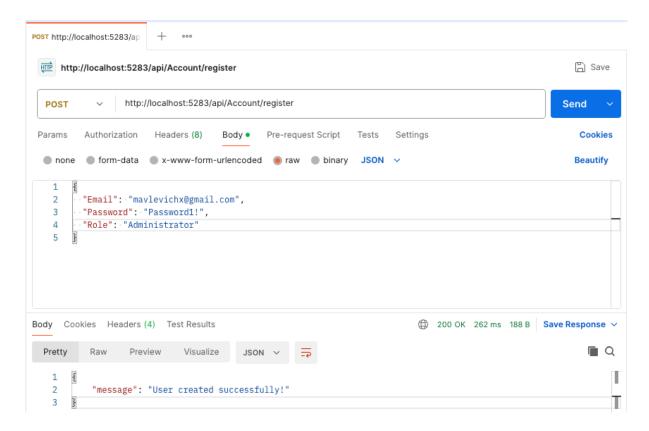
https://github.com/mavlevich/out_of_office

Due to the fact that in the project requirements we needed to use user identification to test the functionality of the application, Postman will be used

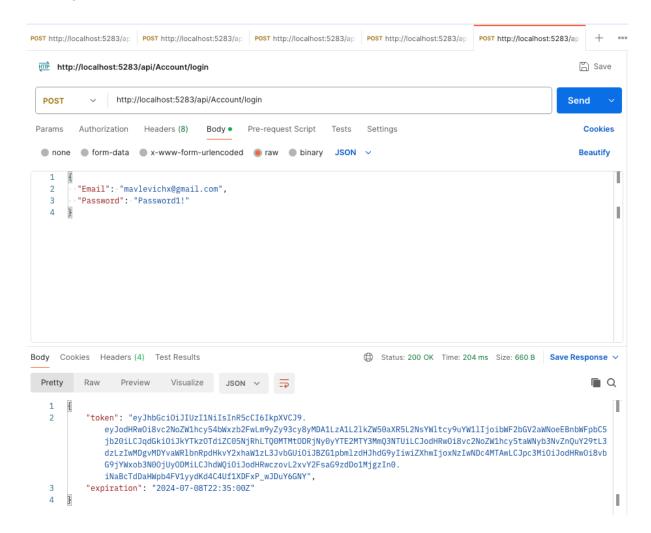
Endpoints for user registration and login, role creation and role attribution:



User registration:



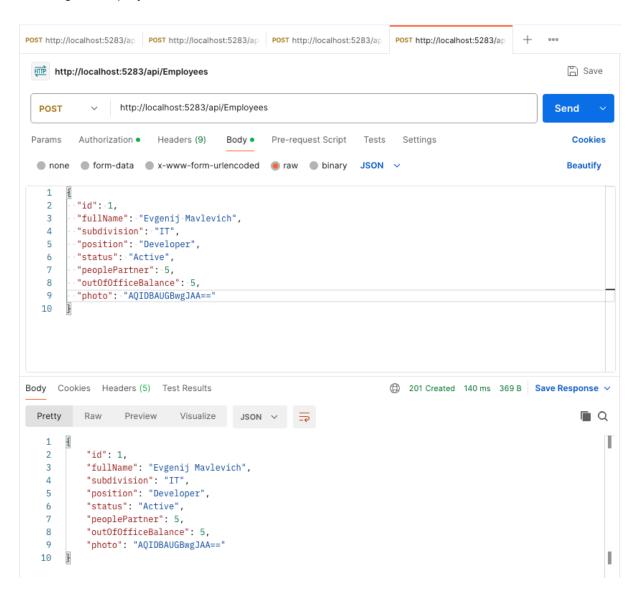
User login:



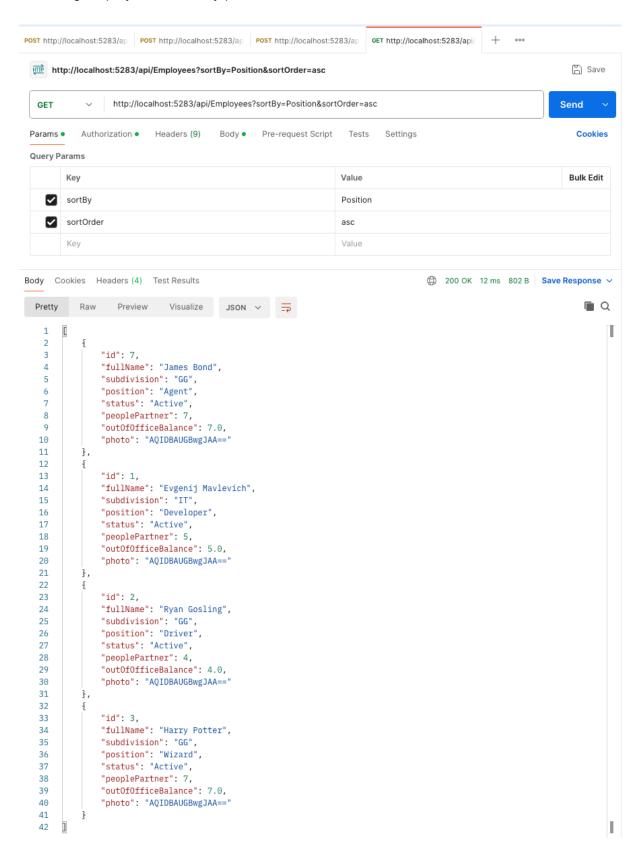
Endpoints for employee management:



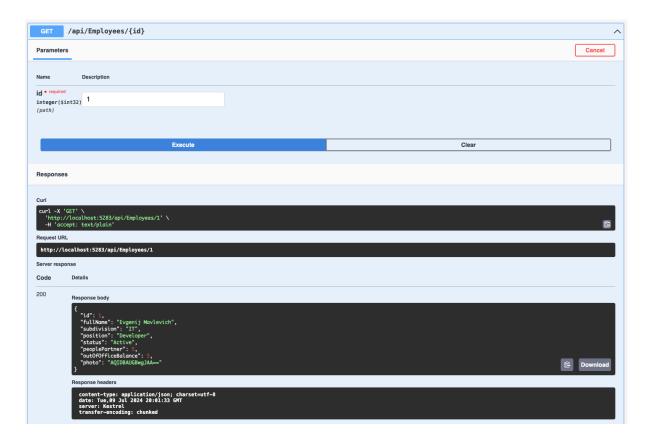
Creating an employee:



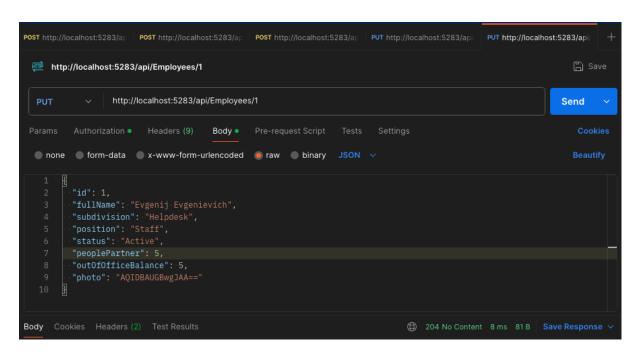
Receiving employees sorted by position:



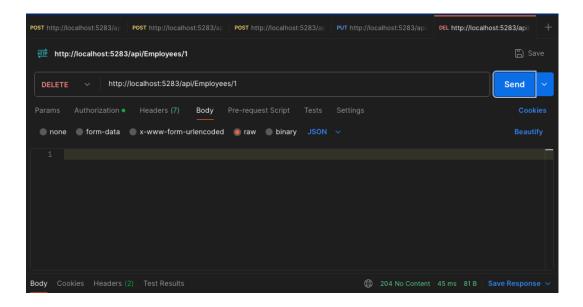
Getting an employee by ID:



Changes to employee data:



Delete employee:



Endpoints with the same functionality have also been implemented for : Approval Request, Project, Leave Request

