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IdentityService

IdentityService is a microservice that handles user authentication and authorization using JWT (JSON Web Tokens). It leverages ASP.NET Core Identity and SQL Server for user management, including password hashing and validation.

Features

- User authentication using JWT tokens.
- Secure password hashing with ASP.NET Core Identity.
- Async methods for efficient user management and authentication.
- SQL Server integration for user data storage.
- Initial user seeding for testing ([mehrān](#) and [admin](#) users).
- RESTful API for user login.

Prerequisites

- [.NET 8 SDK](#)
- [SQL Server](#)
- Entity Framework Core (included in the project)

Getting Started

1. Clone the repository

```
git clone <repository-url>
cd backend/IdentityService
```

2. Update the Configuration

Update the connection string in `appsettings.json` to match your SQL Server configuration:

```
{
  "ConnectionStrings": {
    "DefaultConnection": "Server=your_server;Database=IdentityServiceDb;User
Id=your_user;Password=your_password;"
  },
  "Jwt": {
    "Key": "MehranSecureKeyThatIsAtLeast32BytesLongIII",
    "Issuer": "IdentityService",
    "Audience": "Kasbotech",
    "Subject": "IdentityKasbo"
  }
}
```

3. Run Database Migrations

Run the following commands to create the database and apply the migrations:

```
dotnet ef migrations add InitialCreate
dotnet ef database update
```

4. Run the Application:

```
dotnet run
```

The service will now be running at <https://localhost:7069/> (or another port, depending on your configuration).

5. Seed Initial Users

On startup, the application will seed two initial users:

- Username: **mehran** , Password: **password**
- Username: **admin** , Password: **admin**

These users are seeded once in the database and can be used to test the login functionality.

API Endpoints

POST [/api/auth/login](#)

Authenticate a user and receive a JWT token.

Request :

```
{
  "username": "mehran",
  "password": "password"
}
```

Response (Success) :

```
{
  "username": "mehran",
  "email": "mehran@example.com",
  "token": "<JWT_TOKEN>"
}
```

Response (Failure) :

```
{  
  "error": "Invalid credentials"  
}
```

Identity ER Diagram:

