



Hossam Reda Tohamy

Backend Developer

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PROFILE

Aspiring backend developer experienced in building scalable web applications using ASP.NET Core and EF Core. Passionate about clean architecture and problem-solving.

EDUCATION

Elshorouk Academy, Computer Science

SKILLS

programming language: C , C# , HTML , CSS , JS , Assembly

concepts & skills: OOP , Data structure, Algorithm, Problem solving , RESTfull APIs

Framworks & Tecnologies: ASP . NET MVC , ASP . NET Web APIs ,EF Core , LINQ

Tools: Git , Github , SQLServer ,Visual Studio

PROJECTS

Hosptail System

02/2025 – 03/2025

Hospital Management System (MVC)

A web-based system built using the MVC design pattern. It includes three main user roles:

- **Admin:** Manages doctor/patient accounts, schedules appointments, and oversees hospital resources.
- **Doctor:** Views appointments, adds diagnoses/prescriptions, and updates patient records.
- **Patient:** Registers, books appointments, and views medical history and notifications.
- Tecnology : C# , OOP , SQL ,Linq , JWT ,EF Core , ASP . NET MVC , HTML , CSS , Bootstrap ,JS , Razor Views
- Github Link : Project Hosptial System [🔗](#)

E-Commerce System

03/2025 – 04/2025

Project: E-Commerce Web API System Developed a role-based E-Commerce backend using ASP .NET **Web API** with **JWT authentication** and **Entity Framework**. The system supports three main roles:

- **Admin:** Manages users, categories, and system settings.
- **Seller:** Manages products, orders, and sales.
- **Buyer:** Browses products, places orders, and submits reviews. Implemented RESTful APIs with clean architecture for scalability and maintainability.

Technologies:ASP . NET Web API, C#, Entity Framework, SQL Server, JWT Authentication, RESTful APIs, LINQ, JSON, Postman, Git.

Github Link : Project E-Commerce System [🔗](#)

Quiz managment System

04/2025 – 05/2025

Project: Developed a role-based quiz management backend using ASP.NET **Core Web API** with **JWT authentication** and **Entity Framework Core**. The system supports two main roles:

- **Instructor:** Manages courses, quizzes, questions (with difficulty levels), and assigns exams manually or automatically to students.
- **Student:** Enrolls in courses, takes assigned quizzes or finals, and views results.

Supports exam types (Quiz/Final), question levels (Simple/Medium/Hard), and auto-balanced question assignment. Implemented RESTful APIs with **Clean Architecture** (Controller-Service-Repository) to ensure scalability and maintainability.

Technologies: ASP.NET [↗](#) Core Web API, C#, Entity Framework Core, SQL Server, AutoMapper, JWT Authentication, RESTful APIs, LINQ, Postman, Git. **GitHub Link:**[Quiz Managment System](#) [↗](#)

Hotel System

05/2025 – present

Developed a role-based hotel reservation backend using ASP.NET **Core Web API**, **Entity Framework Core**, and **JWT authentication**. The system supports two main roles:

- **Hotel Staff:** Manage rooms, offers, reservations, payments, and customer feedback.
- **Customer:** Search rooms, make and manage reservations, and submit feedback.

Key features include room availability tracking, dynamic offer assignment, invoice generation, booking reports, and a customer feedback system. Only authenticated users can make or modify reservations, while anonymous users can browse offers and available rooms.

Applied **Clean Architecture** with a clear separation of concerns across the **Core**, **Infrastructure**, and **Application (Services)** layers. Implemented RESTful APIs using **Controller-Service-Repository** pattern for modularity and scalability.

Technologies: ASP.NET Core Web API, C#, Entity Framework Core, SQL Server, AutoMapper, JWT Authentication, RESTful APIs, LINQ, Postman, Git. **GitHub Link:**[Hotel System](#) [↗](#)