



DEPI PROJECT

Instructor: ENG-Fathy

OUR TEAM

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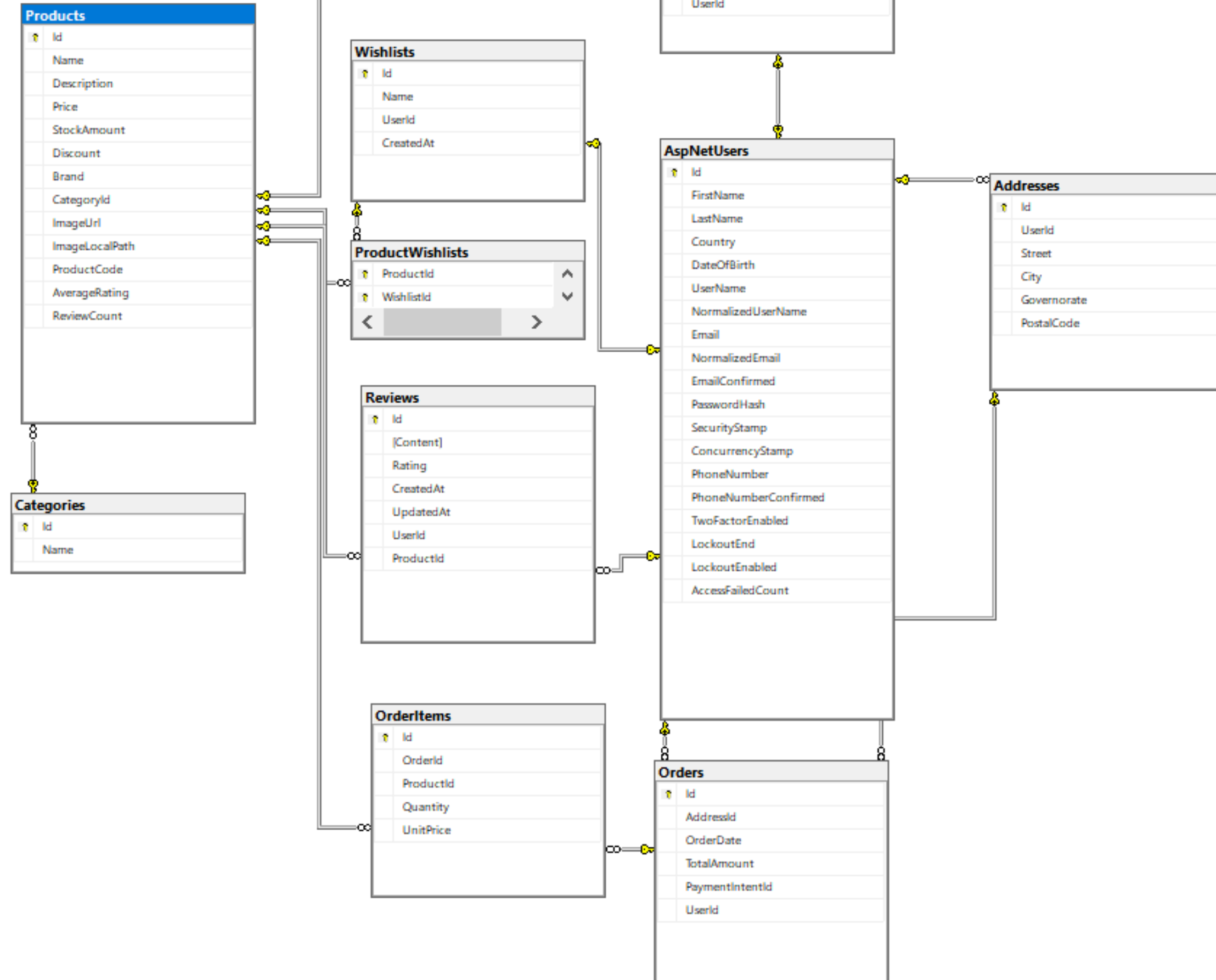
OVERVIEW

E-Commerce Project for Online Shopping for users as Customers and Admins with features like Shopping Cart, Payment Intergration, Checkout and User Authentication

ARCHITECTURE & STACK

- NET8 Stack With N-Tier Architecture
- API: ASP.NET Core Web API, Entity Framework Core, SQL Server, JWT for auth.
- MVC: ASP.NET Core MVC, Razor Views, HttpClient for API calls.

Tools: Visual Studio, Swagger, Github



API

- Resource-based endpoints Get /api/Address
- Highlight critical endpoints (e.g., payment processing with Stripe)
- Authentication & Authorization
- JWT tokens, roles (Customer, Admin), and role-based access and Refresh Token.
- Database Design:
- ERD diagram (tables: Products, Users, Orders, Cart CartItems, Address, Category).

MVC

- MVC Pattern Models, Views (Razor), and Controllers interact.
- Acts as the client to consume API endpoints (e.g., HttpClient for API calls).
- Anti-forgery tokens, secure cookie handling, input sanitization.

PATTERNS

MVC(Model-View-Controller)

RESTful API

UnitOfWork

Repository

Dependency Injection (DI)

NEXT STEPS

Features to add:
User Profile, order history,
admin dashboard and Unit
Test

Performance
improvements:
query optimization,
Logging and rate Limit



**THANK
YOU**