Project Proposal clothing E-commerce
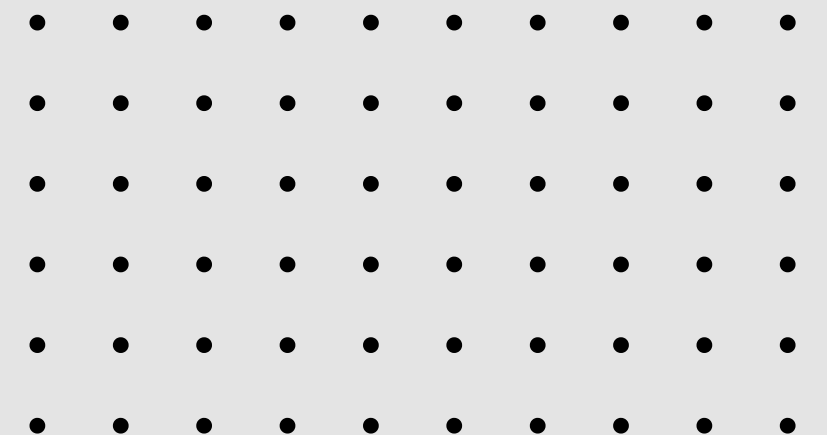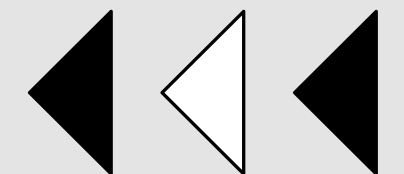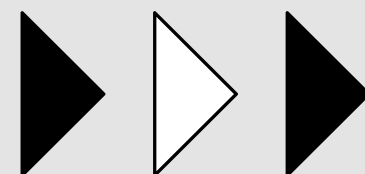
Our Great Team

1:seif soliman mohamed
2:fatima ashraf mohamed
3:kareem ezzat abdelaziz
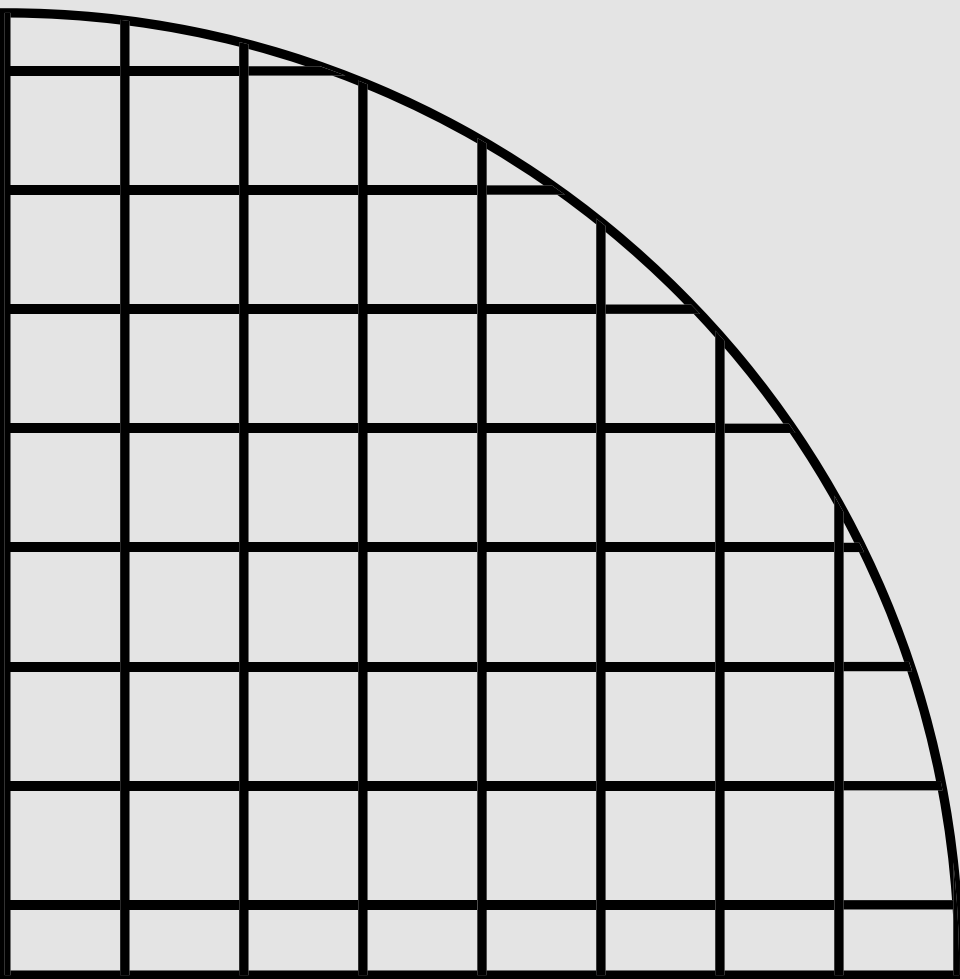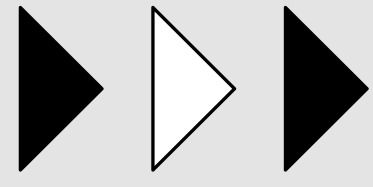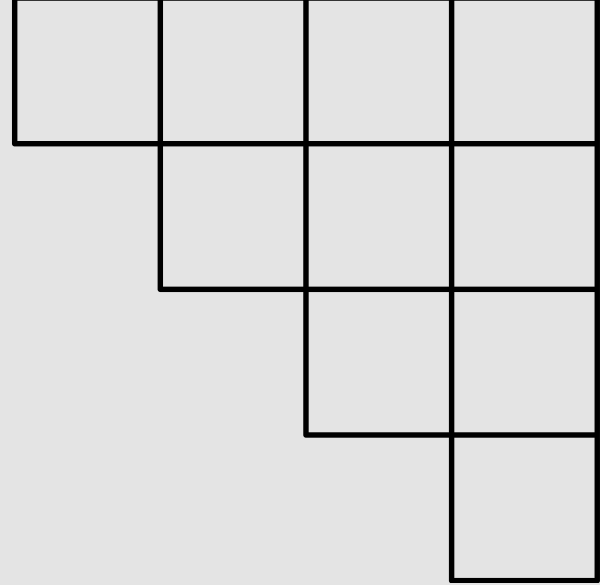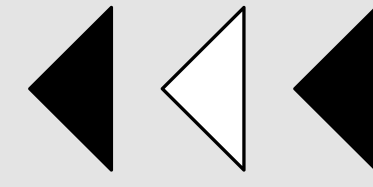4:jana adel maher
5:mohamed abdelraouf
6:mohamed abdelsamiea
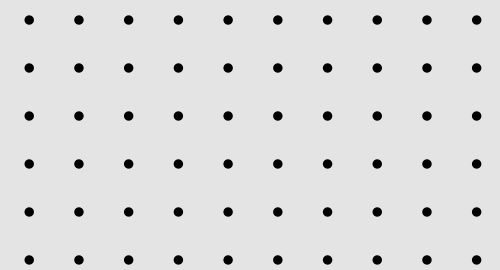
Introduction

StyleZa is a full-stack fashion e-commerce web application designed to deliver a smooth and modern online shopping experience. The project simulates a real-world clothing store, offering features like product browsing by category, shopping cart management, and user authentication.
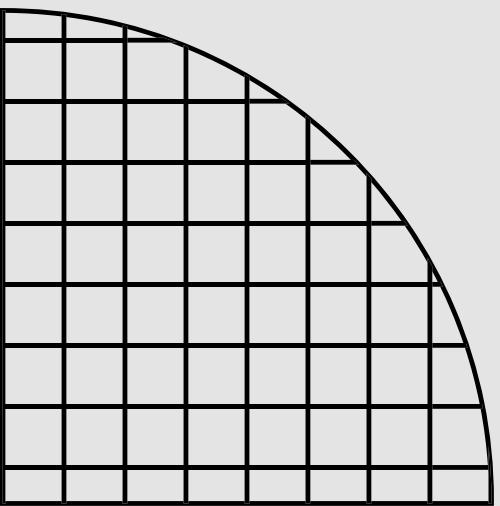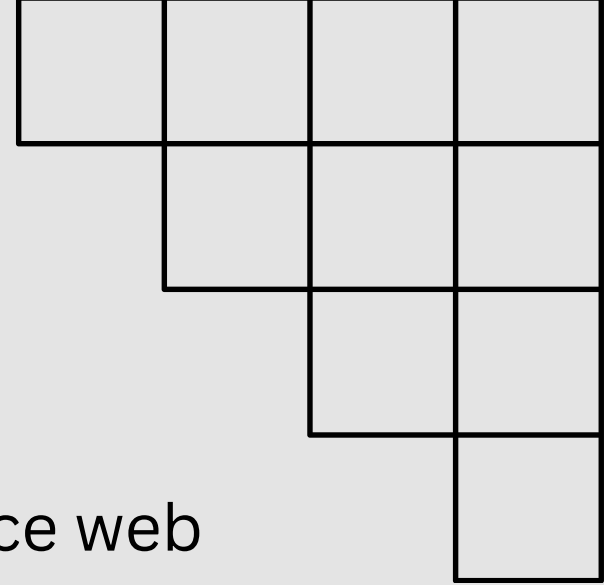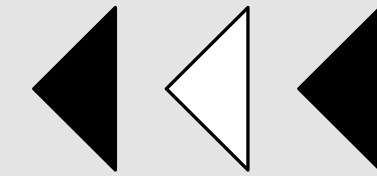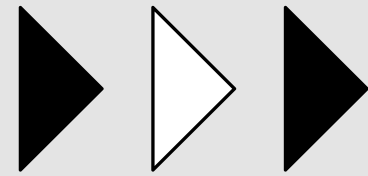The frontend was developed using HTML, CSS, and JavaScript, to create an elegant and responsive UI while the backend leverages C# and the .NET Framework (ASP.NET MVC), to handle business logic, data management, and secure user operations.
This project reflects our goal of building a complete e-commerce system from scratch — combining design, functionality, and backend integration — and serves as a hands-on exercise in full-stack development.
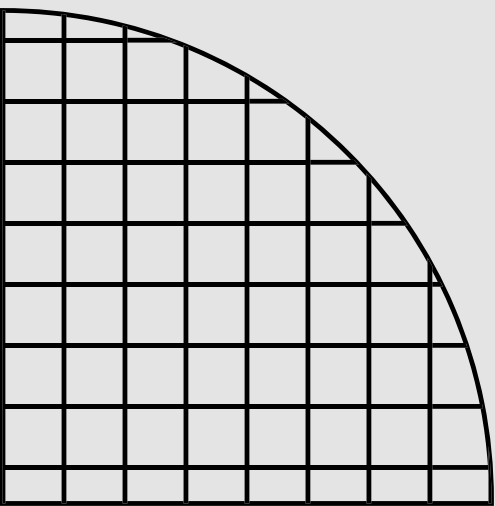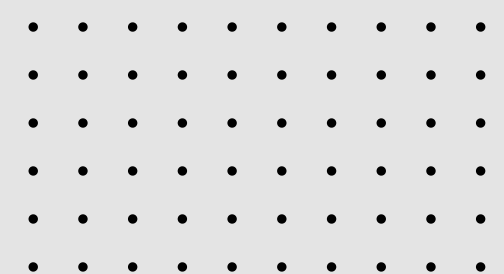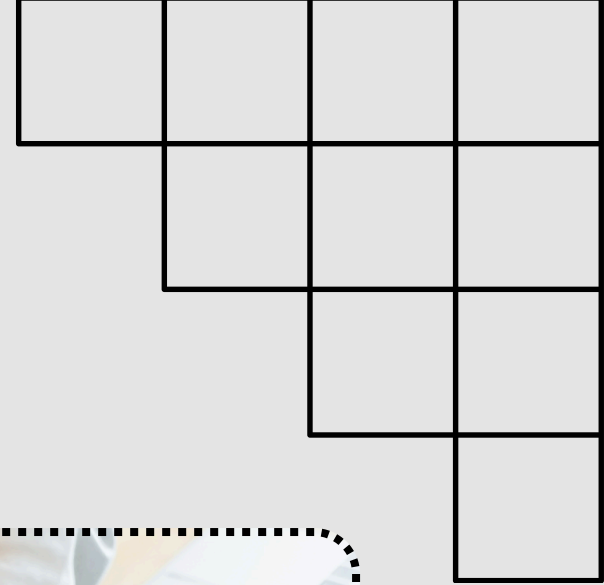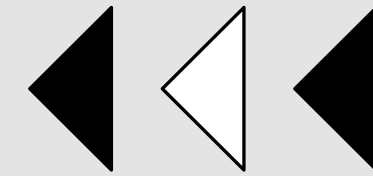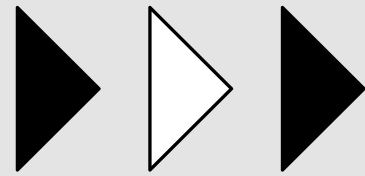
Goals

- Build a Full-Stack E-Commerce Website
- Develop a fully functional online clothing store using modern web technologies on both the frontend and backend.
- Deliver a Smooth User Experience
- Design a responsive and user-friendly interface for browsing, shopping, and managing user accounts.
- Implement Core E-Commerce Features
- Include essential functionalities such as:
- Product browsing by category
- Add to cart and quantity management
- User login and registration
- Wishlist (in progress)
- Checkout system (planned)

- Apply MVC Architecture
- Structure the backend using ASP.NET MVC to maintain separation of concerns and scalable development.
- Practice Real-World Development
- Simulate a real-world project environment with version control (GitHub), database integration, and full-stack logic handling.
- Prepare for Deployment & Collaboration
- Make the project easy to share, deploy, and expand, enabling future teamwork and open-source contribution.
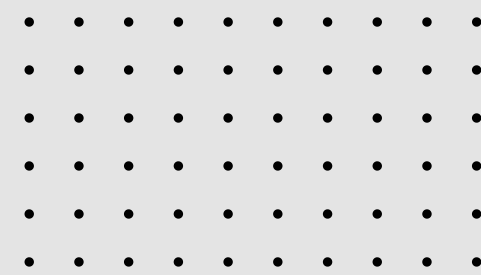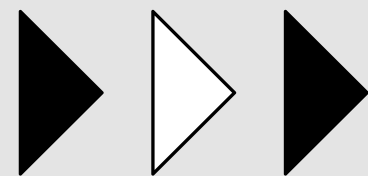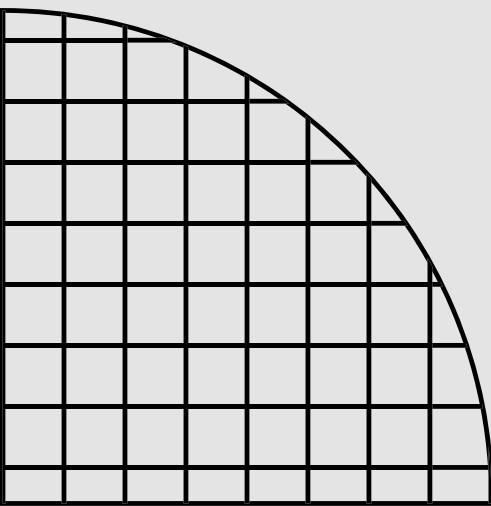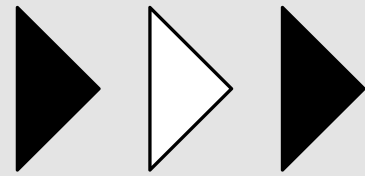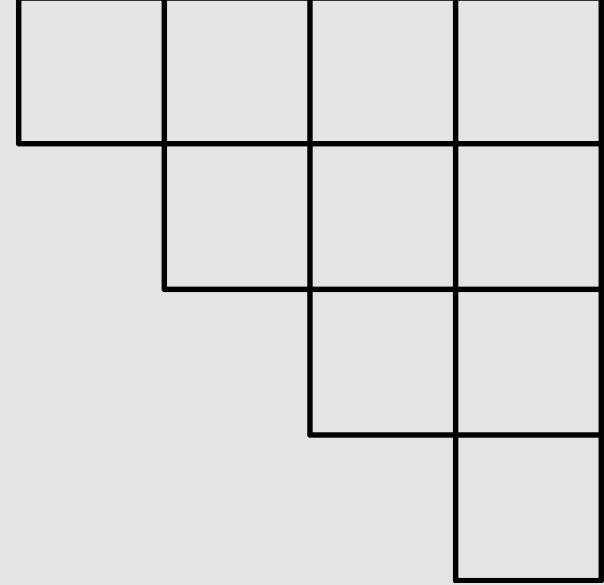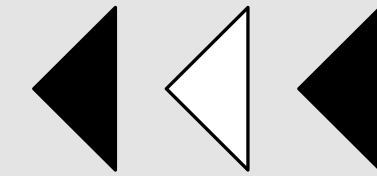
Technologies Used
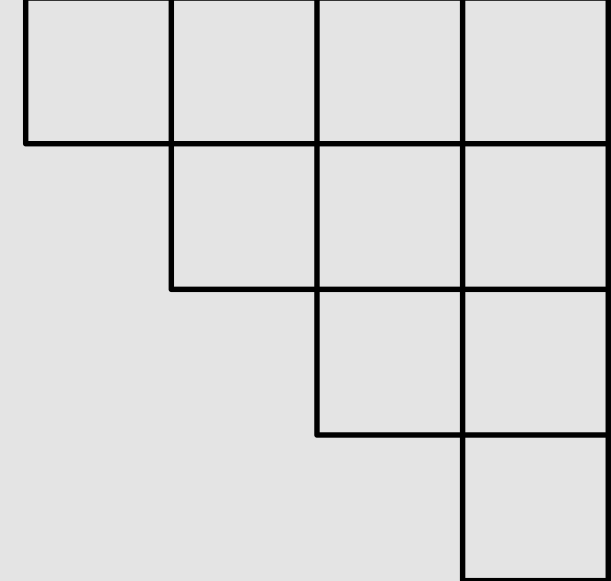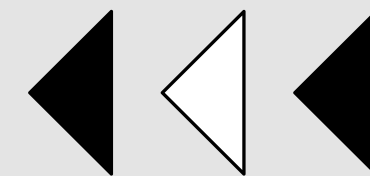
Backend: ASP.NET Core (.NET 8.0), Entity Framework Core Frontend: Razor Pages / Blazor (or React if used), Bootstrap/TailwindCSS Database: SQL Server Authentication: ASP.NET Identity with role-based access Deployment: IIS / Azure / Docker-ready (as required)
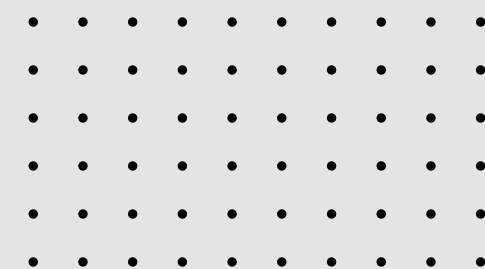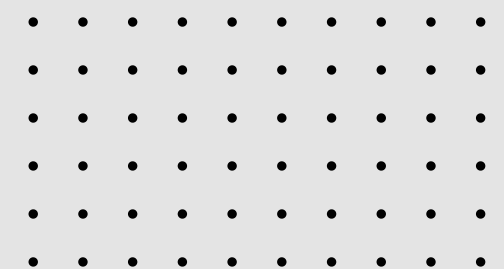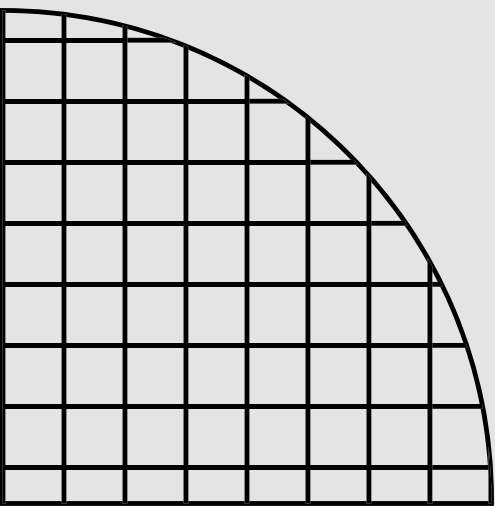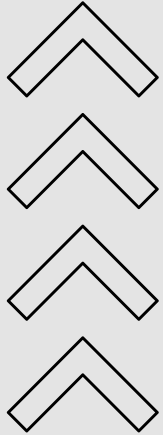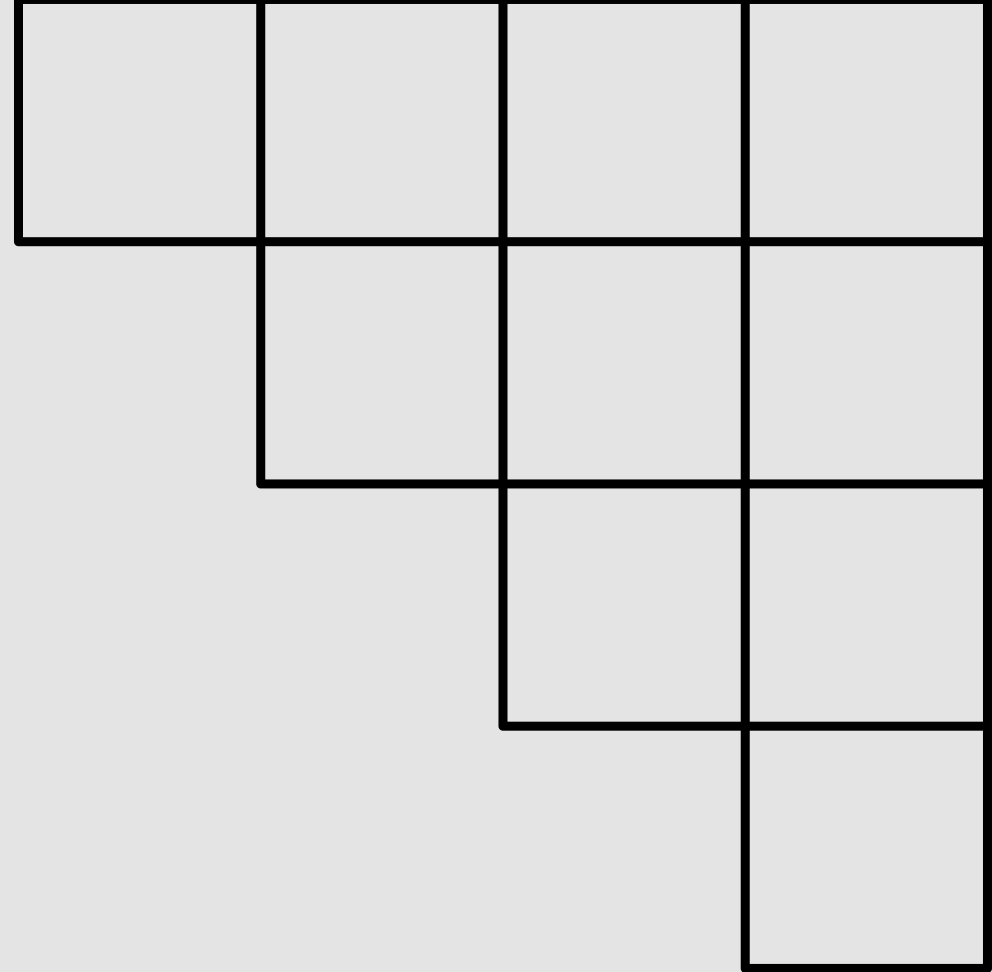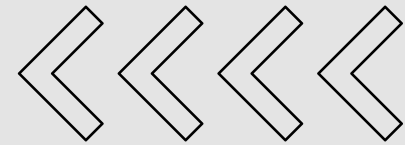
Timeline

The development of the StyleZa project followed an 8-week timeline. In Week 1, we focused on planning, defining the project scope, and setting up the GitHub repository and Visual Studio solution. Week 2 was dedicated to designing the frontend layout, including the homepage, navigation bar, and responsive product sections. During Week 3, we set up the backend using Entity Framework, created core models such as Product, Category, Cart, and User, and connected dynamic product listings to the database. In Week 4, we implemented the shopping cart system, enabling users to add, remove, and update items in their cart. Week 5 was focused on user authentication, where we integrated login, registration, and access restrictions using ASP.NET Identity. In Week 6, we began developing the wishlist feature and a basic checkout flow with order summary logic. Week 7 involved refining the UI, improving responsiveness, adding validation, and testing the full user flow from browsing to checkout. Finally, in Week 8, we finalized the project by cleaning up the code, writing documentation, preparing the presentation, and deploying the frontend via GitHub Pages while preparing the backend for local hosting.

Thank You