

Description of the practical assignment for “Print site”:

Team:

One student responsible for the project:

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 - Design, business logic, user interface, source control, development.

Development Environment:

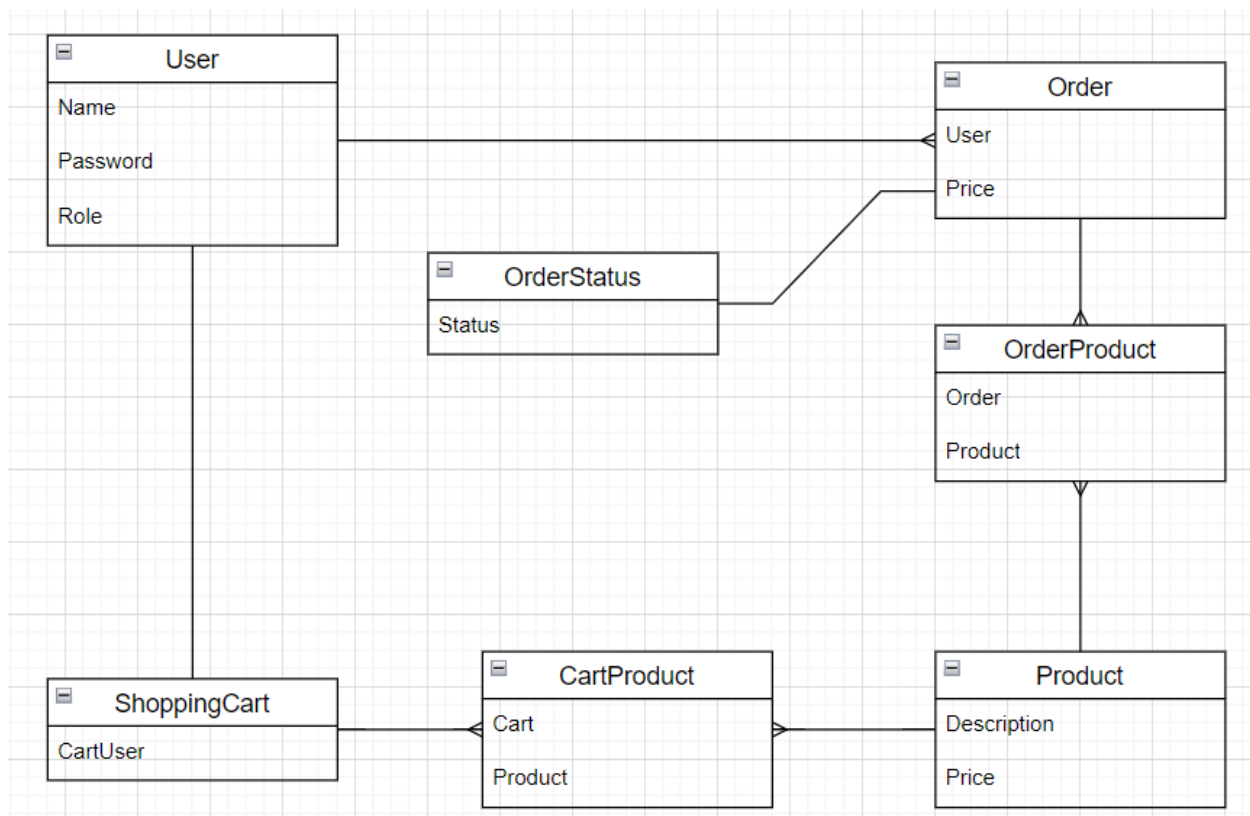
- ASP.NET Core(.NET 7) with the C# language.
- GitHub for source control.
- SQL Server 2022 for data storage.

Main functionality:

The website serves as a site for a potential local printing business. It allows customers to view the different services that they offer, their prices, being able to make orders and track their existing orders.

Data:

The system consists of products and orders. Users may add different products to an order. Each order consists of one or many products. The products are different jobs that are available at the printing business. Before a customer is ready to make a proper order, their temporary orders go into a shopping cart. The cart will contain the same products as an order. Both orders and shopping carts can contain more than one product.



MVC:

The system is broken down into the following components:

Controllers:

- HomeController: Responsible for the main pages of the website. Contains the home page, an about page,
- ProductController: Contains the different products that are offered by the business. Each product has its own page. Contains functionality for displaying
- OrderController: Responsible for creating, displaying, deleting and changing orders throughout the website. Orders consist of products and are tied to individual users.
- AdminController: Has executive control over every user's orders and the ability to make changes to them.
- Built in ASP.NET identity system for accounts, with additions of specific user roles to support different levels of user accounts (regular user, admin user).

Models:

- User (provided by ASP.NET identity)
- Order
- Product
- Order status
- Shopping cart

Views:

- Home page
- About Page
- A list of products
- Individual product page
- List of orders (with functionality to edit or delete)
- Individual order page
- Making an order

User roles:

Visitor:

- Browse through the home pages and the available products

Registered user:

- Look at their individual orders made on the website (including editing and deleting them)
- Make new orders for products


Administrator:

- Look at all the orders on the website (including editing and deleting them)

System interface:

The following image shows an example of the home page with some of the products being available for choosing. Upon selecting a product, a user will be sent to the relevant page where they can add it to their cart and potentially make an order.

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