Project pitch

Title: JB-Clothing

Description: JB-Clothing is an online clothing store designed to ensure smooth operations for both store employees and customers. Store employees can easily add, update, or remove products, categorize items, and efficiently manage customer orders. Meanwhile, customers can browse the clothing collection, add their favorite items to the cart, and seamlessly make purchases through the integrated checkout system. JB-Clothing aims to provide a seamless shopping experience while making store management simple and efficient for employees.
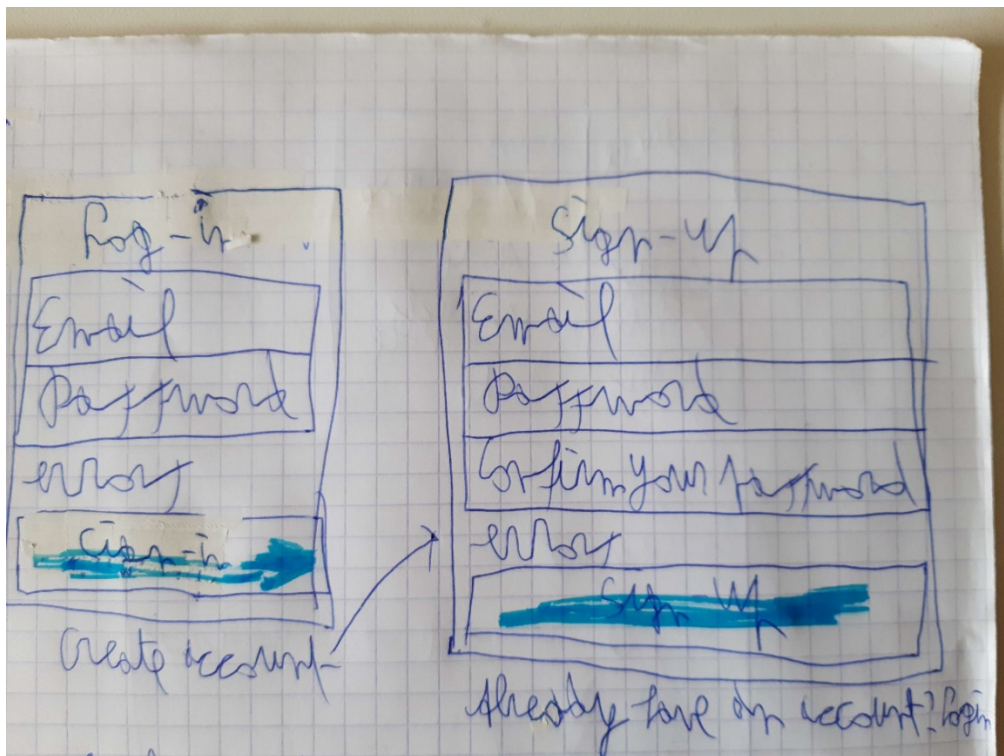
User stories

1. User Authentication

- **User Story**:
  As a customer, I'm able to sign up and log in, so that I can access personalized features like my cart, order history, and saved preferences.
  As an admin or salesman, I'm able to log in, so that I can manage the store's operations.

- **Wireframe**:

- **Acceptance Criteria**:

  o Customers can register by providing an email, password, firstname and lastname.

  o Users can login using their email and password.

  o Error messages appear for invalid login or signup attempts, such as an email that is not in the system or an incorrect password.

2. Product Management

- **User Story (Admin)**:
  As an admin, I'm able to add, update and delete products, so that I can manage the store's product catalog.

- **Wireframe:**
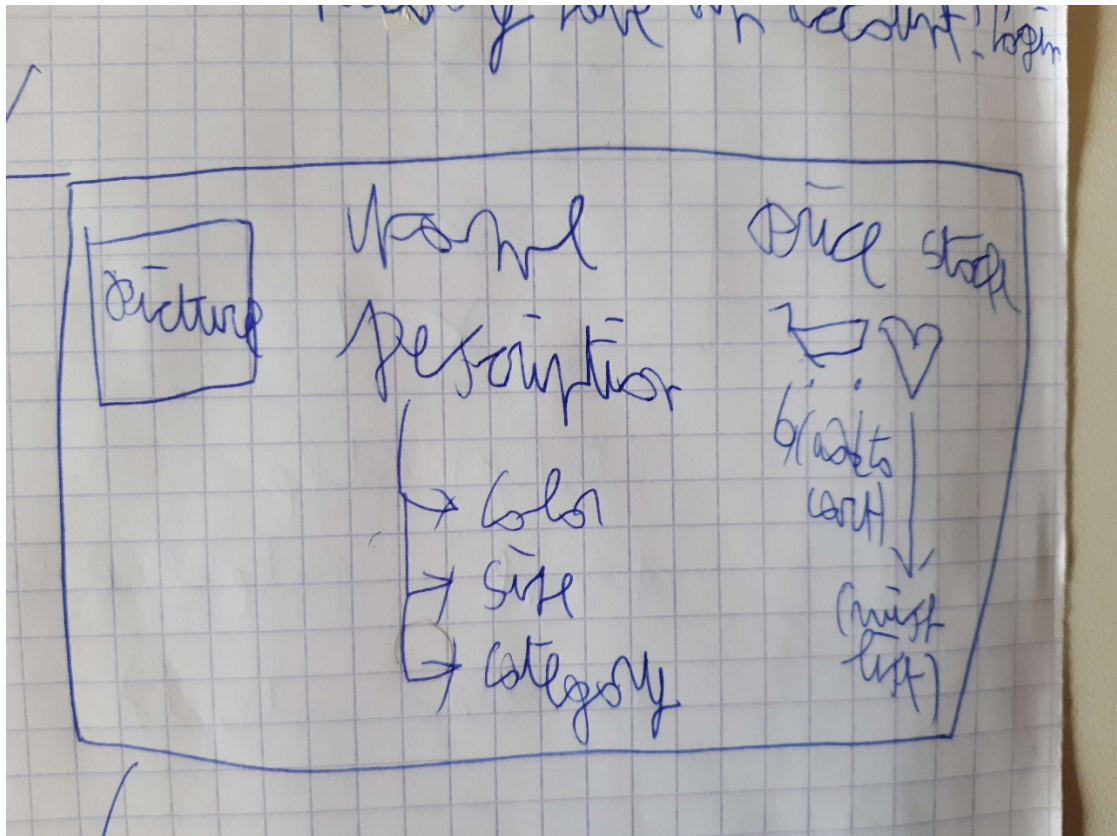
- **Acceptance Criteria**:

  - Admins can create new product entries with details like name, category, price, description, image and stock.

  - Admins can update product details or remove a product.

  - Users receive alerts when stock is low.

3. Cart and Checkout

- **User Story (Customer)**:
  As a customer, I'm able to add items to my shopping cart, update quantities and complete checkout, so that I can purchase products.

- **Wireframe**:
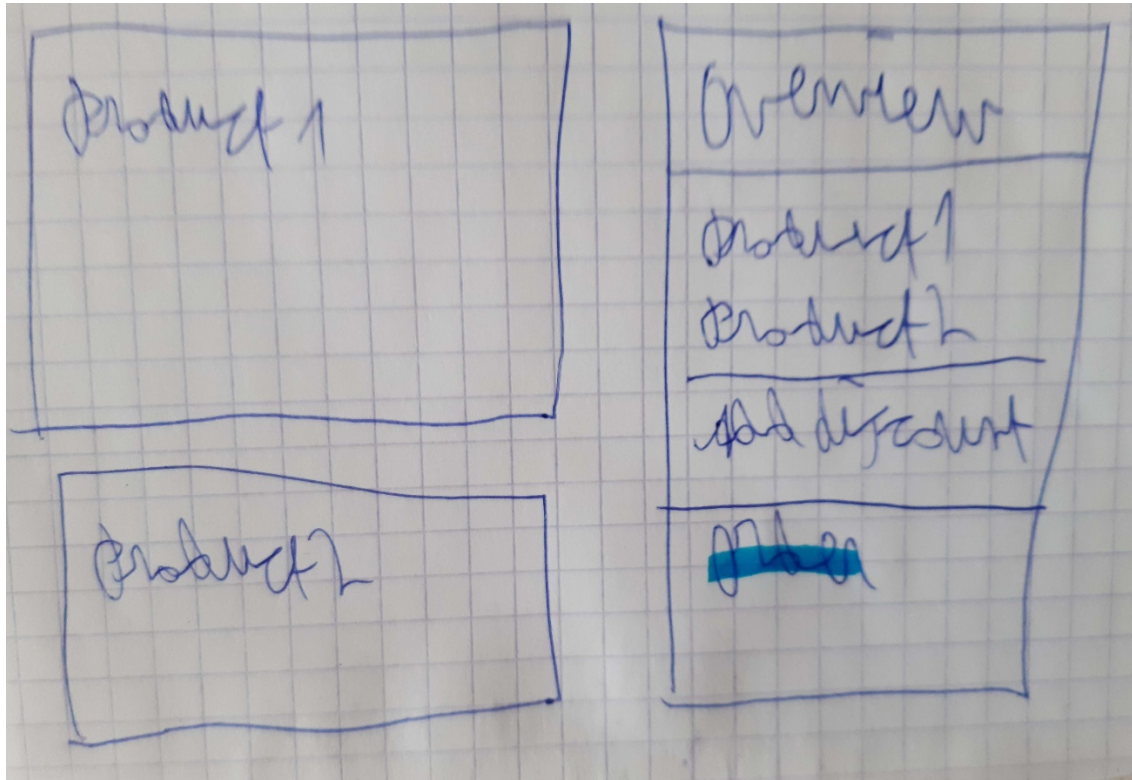
- **Acceptance Criteria**:

  o Customers can add products to the cart.

  o Customers can update product quantities or remove items from the cart.

  o Order confirmation and invoice are generated after payment.

4. Order Management

- **User Story (Admin/Customer)**:
  As an admin, I'm able to update the status of customer orders and view payment status, so that I can ensure the correct processing of orders.
  As a customer, I'm able to track the status of my order and payment, so that I know when it will arrive.
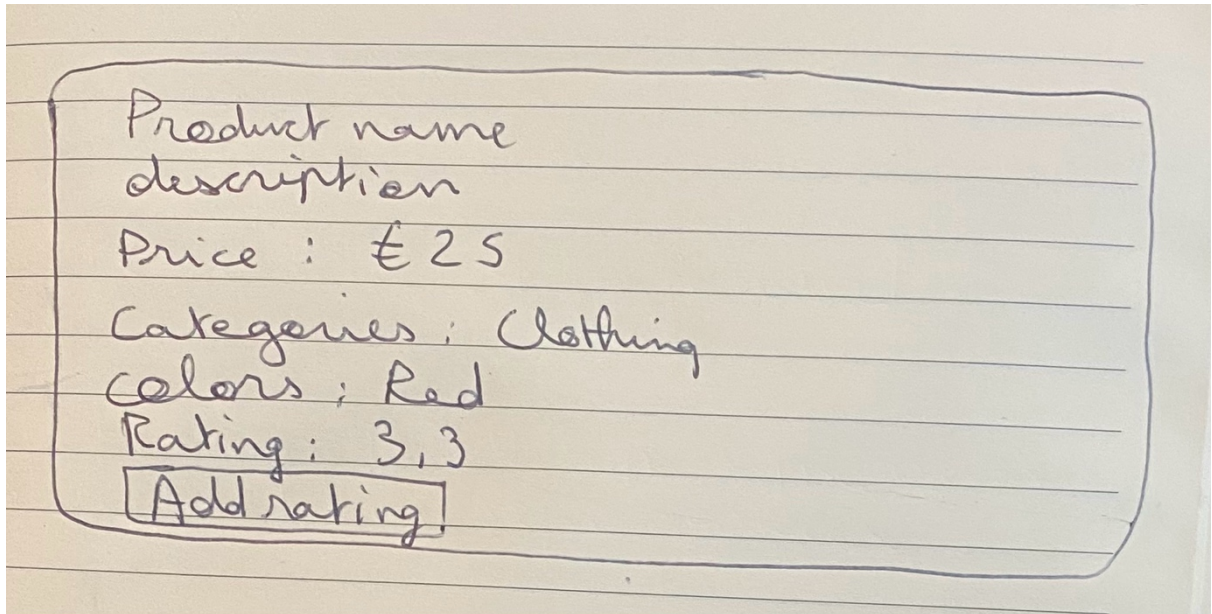

- **Acceptance Criteria**:
  - Admins can change order status (e.g., Pending, Shipped, Delivered).
  - Customers can track the status of their order.
  - Payment status is tracked for each order (Paid/Unpaid).
  - Customers receive confirmation after successful payment.

5. Customer Ratings

- **User Story (Customer/Admin):**
  As a customer, I'm able to leave ratings for products, so that I can share my rating. As a admin and a customer I'm able to see the average rating.
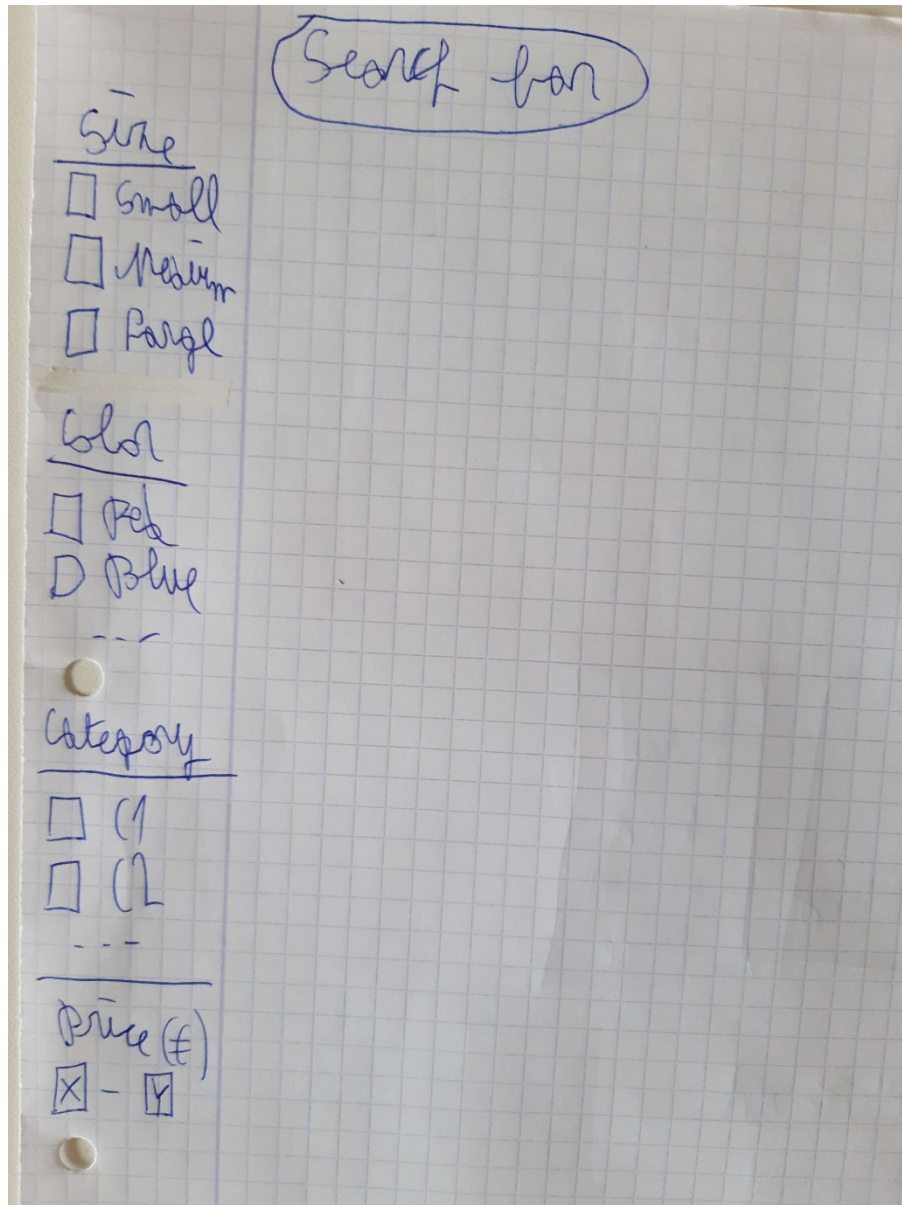

- **Acceptance Criteria:**

  - Customers can leave reviews with ratings ranging between 1/5and 5/5.

  - Admin/customer can add a rating.

  - Ratings are displayed on the product page in each product section.

6. Product Search and Filters

- **User Story (Customer)**:
  As a customer, I'm able to search for products and filter by category, size, price and color, so that I can easily find items I'm interested in.
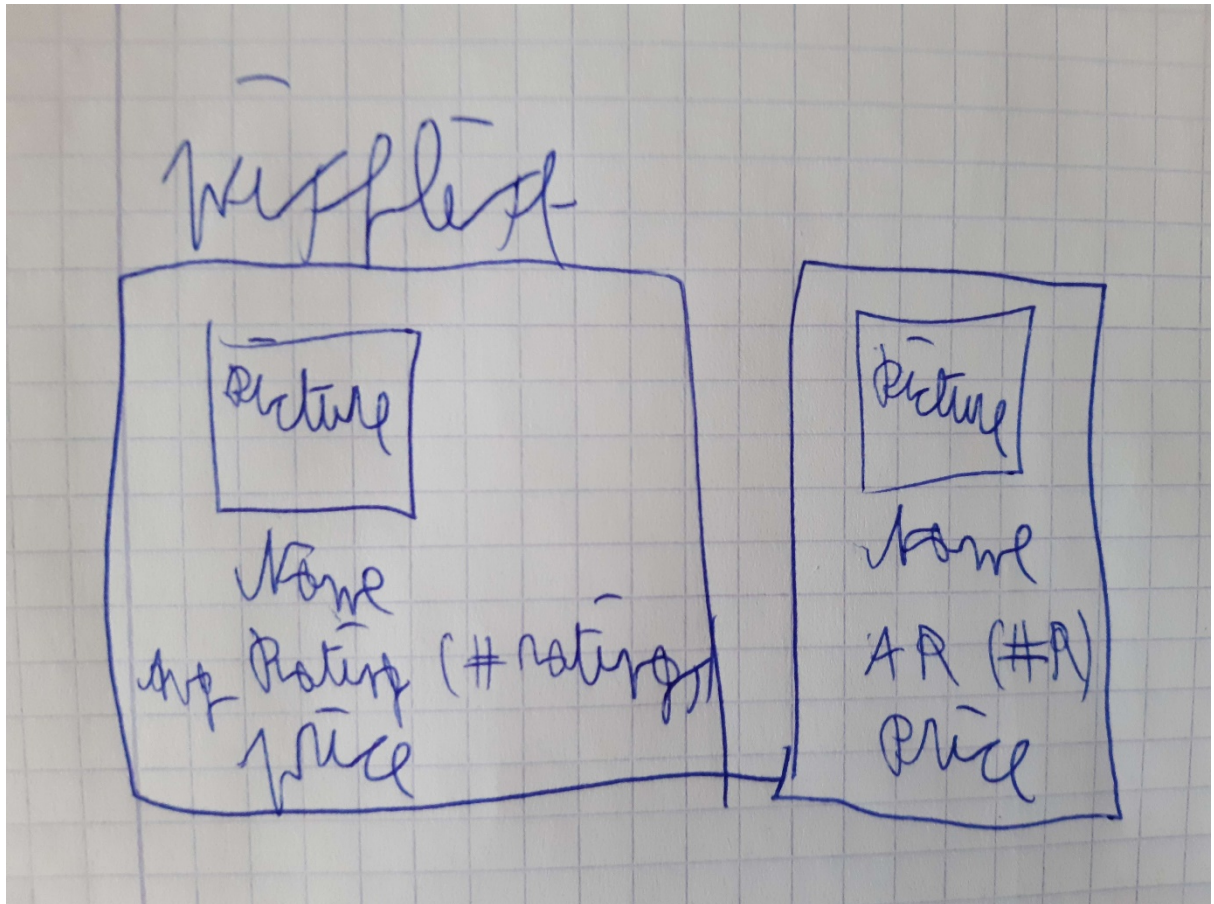

- **Acceptance Criteria**:

  o Customers can search for products using keywords.

  o Customers can filter products by category, size, price, or color.

7. Wishlist

- **User Story (Customer)**:
  As a customer, I'm able to add and remove products from a wishlist, so that I can save items for future purchases.
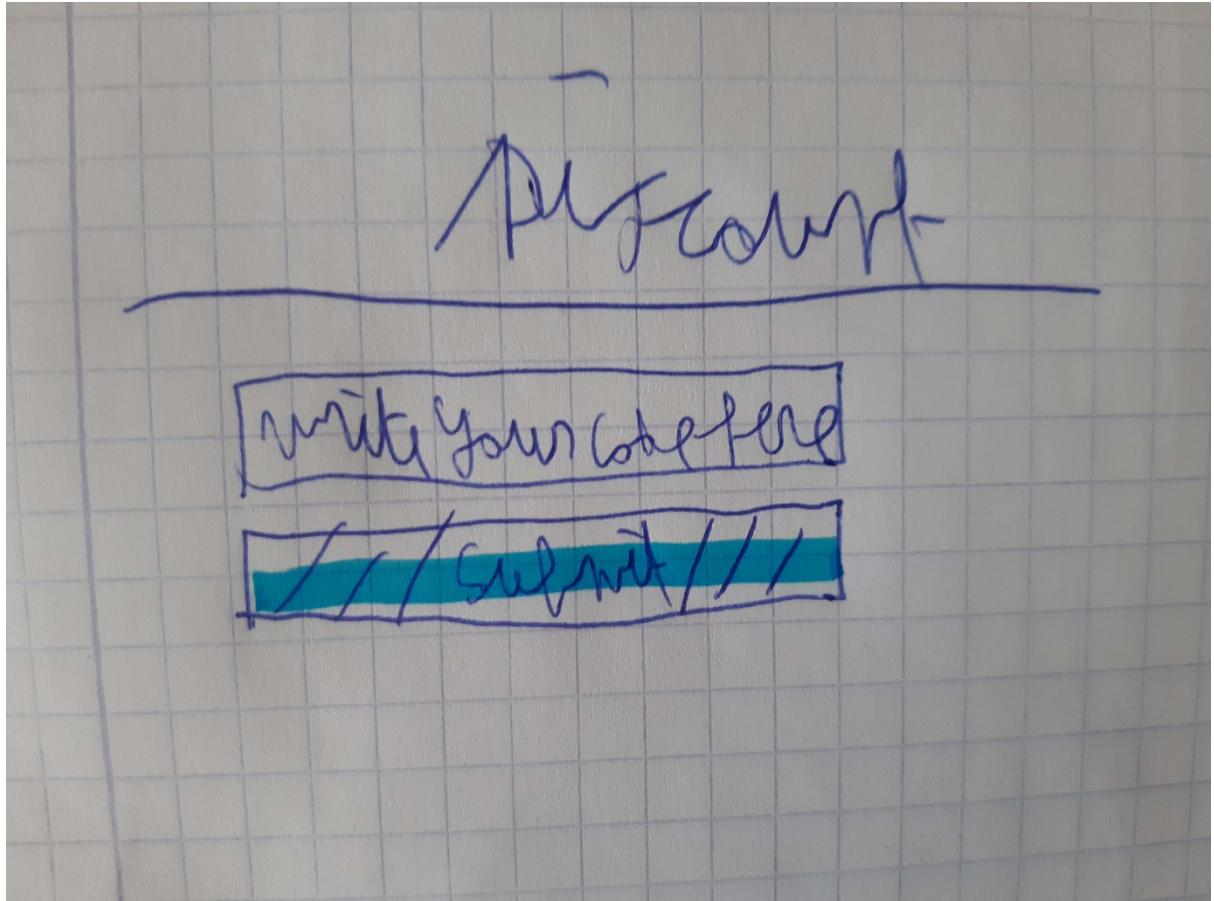

- **Acceptance Criteria**:

  - Customers can add and remove products from their wishlist.

  - Customer can order products in their whitelist using name and rating(ascending or descending).

  - Wishlist items can be added to the cart later.

9. Discount Codes

- **User Story (Salesman/Customer)**:
  As a Salesman, I'm able to create and manage discount codes, so that I can run promotions.
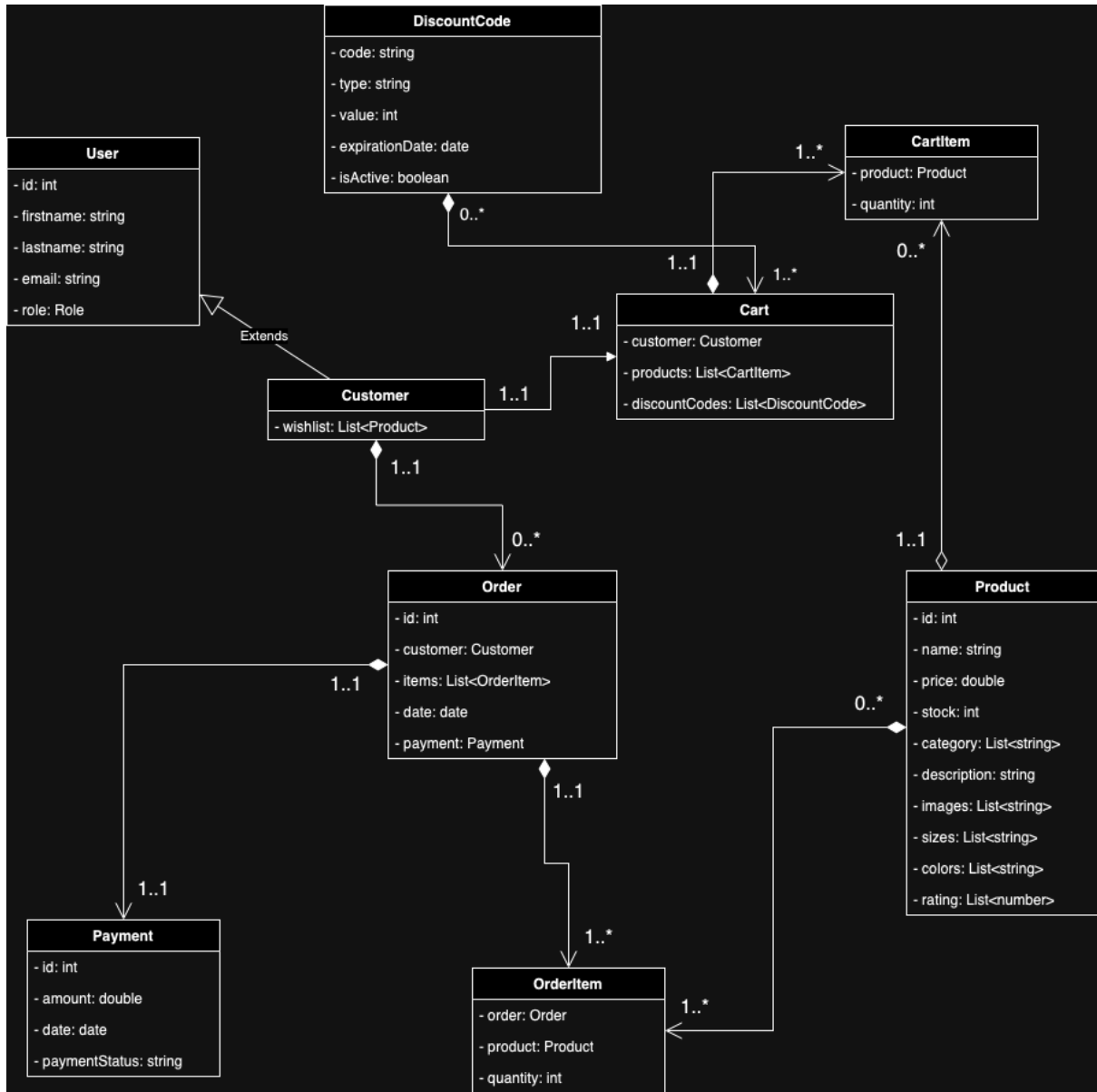 As a customer, I'm able to apply discount codes during checkout, so that I can receive discounts on purchases.

- **Acceptance Criteria**:
  - Salesmen can create, edit, delete discount codes.
  - Customers can apply discount codes at checkout.
  - The system calculates discounts correctly and updates the total amount.
  - Discounts should be applied as either a fixed amount or a percentage.

Domain model

DiscountCode
- code: string
- type: string
- value: int
- expirationDate: date
- isActive: boolean

User
- id: int
- firstname: string
- lastname: string
- email: string
- role: Role

Extends

CartItem
- product: Product
- quantity: int

Cart
- customer: Customer
- products: List<CartItem>
- discountCodes: List<DiscountCode>

Customer
- wishlist: List<Product>

Order
- id: int
- customer: Customer
- items: List<OrderItem>
- date: date
- payment: Payment

Product
- id: int
- name: string
- price: double
- stock: int
- category: List<string>
- description: string
- images: List<string>
- sizes: List<string>
- colors: List<string>
- rating: List<number>

Payment
- id: int
- amount: double
- date: date
- paymentStatus: string

OrderItem
- order: Order
- product: Product
- quantity: int

Conceptual & logical model