

Requirements:

High:

1. As a User, I want to be able to view products, so that I can see what I want to buy.
2. As a User, I want to be able to put items into a shopping cart so that I can order them later.
3. As a User, I want to be able to order an item from the shopping cart so that I can have the item.
4. As a User, I want to create an account with my full name, username, password, and phone number so that I can log into the system.
5. As an Admin, I want to be able to order products so that the shop has a continuous stock of products.
6. As an Admin, I want to be able to edit products so that I can fix mistakes in their fields.
7. As an Admin, I want to be able to remove products, so that the shop will not have unwanted products.

Medium:

8. As a User, I want to be able to edit the quantity of the items inside the shopping cart so that I can order the quantity of items I want.
9. As a User, I want to be able to remove an item from a shopping cart so that I don't have to order it anymore.
10. As a User, I want to be able to see information about the product so I can be aware of the materials it is made of.
11. As a User I want the items to be put in categories so it is easier to find what I'm looking for.
12. As a User, I want to be able to search for an item so I can purchase it.
13. As a User, I want to receive a receipt when my order is confirmed so that I can have proof of purchase.
14. As an Admin, I want the user to be able to purchase only the available quantity in stock so that I can provide them with the products.
15. As a User, I want to specify the address for the order so that products can arrive at the desired destination.

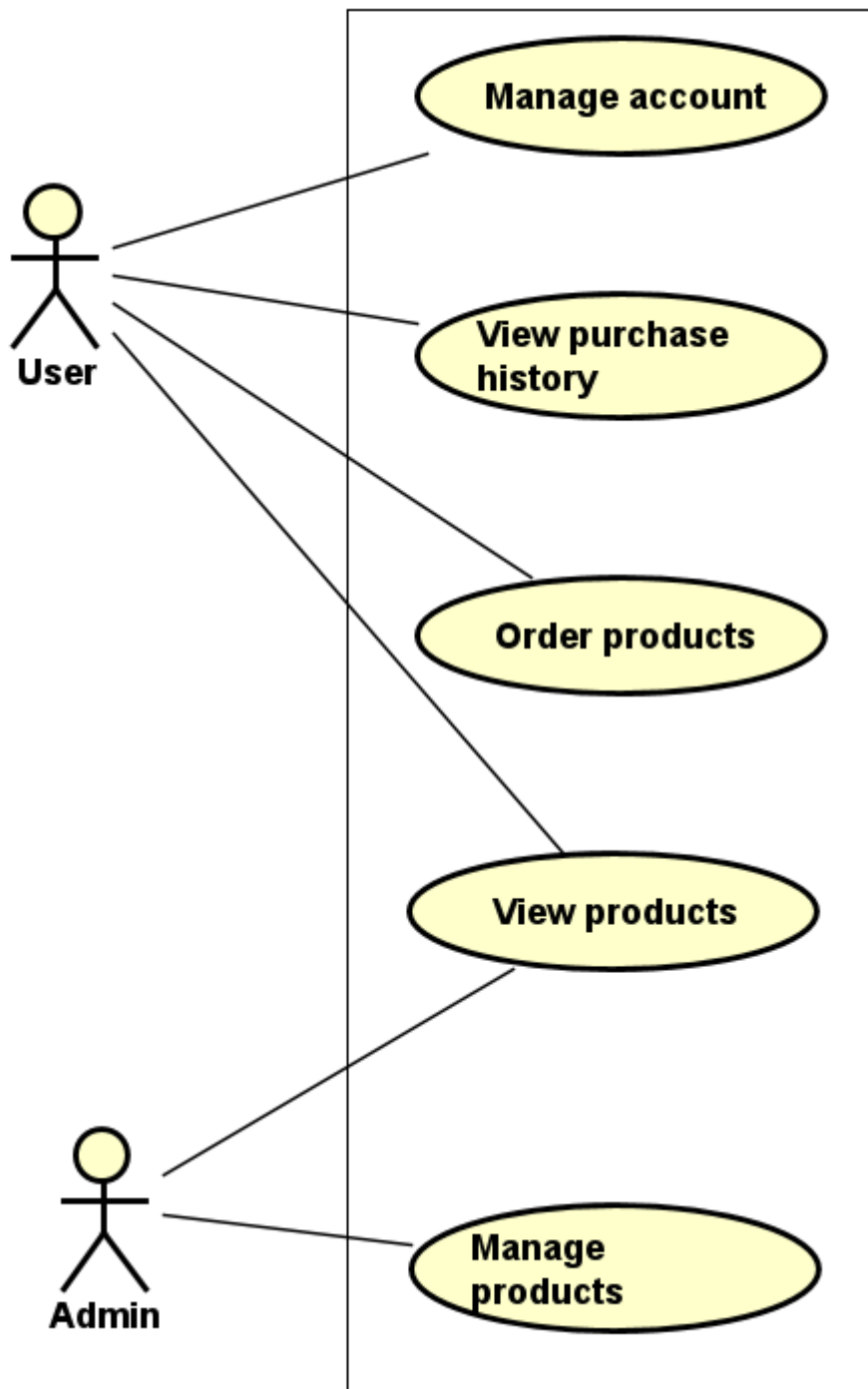
Low:

16. As a User, I want to keep track of my past orders so that I can know what I have bought.
17. As a User, I want to be able to log out so that nobody else can access my account.

Non-functional requirements:

18. The system must be distributed.
19. The system must have server-to-server communication.
20. The software must ensure the security of the user's passwords by using Json Web Tokens.

21. The user interface will be using CSS 3 and Bootstrap 5.



Use case	Manage account
Summary	A user can Create an account and Log-in/Log-out of it
Actor	User
Precondition	
Post condition	The User is Logged-in or Logged-out of the system
Base sequence	<p>CREATE, LOG-IN, LOG-OUT</p> <p>If CREATE, go to step 1. If LOG-IN, go to step 4. If LOG-OUT, go to step 6.</p> <p>CREATE</p> <ol style="list-style-type: none"> 1. Enter User information(full name, username, phone number, password). 2. Create the account. 3. The system updates the stored information. <p>END CREATE</p> <p>LOG-IN</p> <ol style="list-style-type: none"> 4. Enter log-in information(username, password). 5. Log-in. <p>END LOG-IN</p> <p>LOG-OUT</p> <ol style="list-style-type: none"> 6. Go to your profile. 7. Log-out. <p>END LOG-OUT</p>
Alternative sequence	
Exception sequence	<p>1.a. Username already taken. The use case ends.</p> <p>1.b. Phone number already registered. The use case ends.</p>
Note	<p>If LOG-IN, precondition: User must exist in the system.</p> <p>If LOG-OUT, precondition: User has to be logged-in.</p> <p>This UseCase covers the requirements: 4, 17.</p>

Use case	View products
Summary	The User/Admin can search for the desired product and see their description
Actor	User and Admin
Precondition	The user/admin has to be logged-in and a list of products is accessible to the user/admin
Post condition	A product will be displayed alongside its description, stock and the possibility to add it to the shopping cart
Base sequence	VIEW START VIEW <ol style="list-style-type: none"> 1. Go to the list of products by selecting a category. 2. Select a product. 3. The system displays the product. END VIEW
Alternative sequence	1.a. Search for the product. 1.b. Go to the shopping cart.
Exception sequence	1.a.i. The search doesn't return any products. The use case ends. 1.b.i. The user's shopping cart is empty. The use case ends.
Note	This UseCase covers the requirements: 1, 10, 11, 12.

Use case	Order products
Summary	The User can add, remove or edit the quantity of the products in the shopping cart and order them
Actor	User
Precondition	User has to be logged-in
Post condition	An order has been made by the user
Base sequence	<p>ADD, REMOVE, EDIT, ORDER</p> <p>If ADD, go to step 1. If REMOVE/EDIT/ORDER, go to step 5.</p> <p>START ADD</p> <ol style="list-style-type: none"> Go to the selection of products. Select the product. Add the product to the shopping cart. <p>If the selected quantity is bigger than the stock, choose a smaller quantity.</p> <ol style="list-style-type: none"> The system updates the shopping cart. {Repeat steps 1-4 as long as you want} <p>END ADD</p> <ol style="list-style-type: none"> Go to the shopping cart. <p>If ORDER, go to step 11.</p> <ol style="list-style-type: none"> Select the product in the shopping cart. <p>If REMOVE, go to step 7. If EDIT, go to step 9.</p> <p>START REMOVE</p> <ol style="list-style-type: none"> Remove the product from the shopping cart. The system updates the shopping cart. <p>END REMOVE</p> <p>START EDIT</p> <ol style="list-style-type: none"> Increase/decrease the quantity of the product. The system updates the shopping cart.

	<p>END EDIT</p> <p>START ORDER</p> <p>11. Place the order.</p> <p>12. Insert the address of delivery.</p> <p>13. Confirm the payment.</p> <p>14. The system sends receipt and updates the order history and the store's stock.</p> <p>END ORDER</p>
Alternative sequence	1.a. Search for the product.
Exception sequence	<p>1.a.i. The search doesn't return any results. The use case ends.</p> <p>9.a The quantity exceeds the stock. The use case ends.</p>
Note	<p>If REMOVE/EDIT/ORDER precondition: the shopping cart must have the product.</p> <p>This UseCase covers the requirements: 2, 3, 8, 9, 13, 14, 15, 16.</p>

Use case	View purchase history
Summary	The User can view a list of their previous orders and details about them.
Actor	User
Precondition	User has to be logged-in
Post condition	A previous order will be displayed to the User alongside the receipt
Base sequence	VIEW Start VIEW <ol style="list-style-type: none"> 1. Go to the purchase history. 2. Select a previous order. 3. The system displays the previous order End VIEW
Alternative sequence	
Exception sequence	1.a. No previous purchases have been made. The use case ends.
Note	This UseCase covers the requirements: 16.

Use case	Manage products
Summary	The Admin can order, edit or remove products from the shop
Actor	Admin
Precondition	Admin has to be logged-in
Post condition	
Base sequence	<p>ORDER, EDIT, REMOVE</p> <ol style="list-style-type: none"> 1. Go to the list of products. 2. Select product. <p>If ORDER, go to step 3. If EDIT, go to step 5. If REMOVE, go to step 7.</p> <p>START ORDER</p> <ol style="list-style-type: none"> 3. Place the order for the product. 4. The system updates the stock available. <p>END ORDER</p> <p>START EDIT</p> <ol style="list-style-type: none"> 5. Edit information (product name, price, description). 6. The system updates the stored information regarding the product. <p>END EDIT</p> <p>START REMOVE</p> <ol style="list-style-type: none"> 7. Remove the product. 8. The product is removed from the system. <p>END REMOVE</p>
Alternative sequence	1.a. Search for the product.
Exception sequence	1.a.i. The search doesn't return any results. The use case ends.
Note	This UseCase covers the requirements: 5, 6, 7.