



AMMY Pharmacy

CSCI313: Software Engineering Project
Software Requirements
Specifications

UNDER THE SUPERVISION OF:

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1- INTRODUCTION

1.1 PURPOSE

This document's main objective is to provide a complete explanation of the web application system. It will describe the structure and characteristics of the system, its interfaces, what operations the system will perform, the limitations that must be met for it to operate effectively, and how the system will respond to outside events.

1.2 SCOPE

“AMMY Pharmacy” is an online pharmacy system that allow customers and patients to view the products and medicine available in the pharmacy and request order. The system consists of 2 main Users, First the Admins, and the Customers. The admins will have access to the customers and products database. The customers after registration will be able to view the search or any product or medicine, get recommendations, and make purchases.

The application will provide search by active ingredient of the medicine to help our customers to get what they need with minimum cost

1.3 TECHNOLOGIES USED

- Python to develop the entire program and system
- MySQL for database
- FastAPI
- ReactJS

1.4 INTENDED AUDIENCE

This document is useful to: -

Customer/Pharmacist/Doctor: To follow up with the project team if there are requirements change.

Developer: To make implementation simple.

Software Tester: To be able to create the proper test cases for the system and test it to raise the system's level of quality.

SCRUM Master: To be able to create a team and work on the project with a strong plan.

2- OVERALL DESCRIPTION

2.1 PRODUCT PERSPECTIVE

- “AMMY Pharmacy” application is a self-contained and an independent system with suitable interface.
- The system has two categories of users. 1st category is the user, and the 2nd is the admin. Every category has its own features and functionalities that they can do with the system.

2.2 USER CHARACTERISTICS

There are essentially two types of users can interact with the system, user of web application and administrator; they have a different view of the system.

- The user could be a customer which he/she purchases products that do not require a certain official prescription from a doctor. User can use the system to purchase our products and fulfill his/her needs by either searching for the medicine name or the active ingredient and the system will list all the medicines with the active ingredient the user has typed. This user will only interact with the web application.
- The administrator could be a developer, the admin could interact with the web application, will interact with the database and back end, and will manage the system by managing the users, and by managing medicine data.

2.3 OPERATING ENVIRONMENT

The system will run any computer/laptop with Windows OS, and it is expected to be available also on Linux OS. In addition, the application will be available on any web

browser. The application is developed with Python, ReactJS, FastAPI. So, we use the same OS for both development and deployment.

- For development & deployment we use windows OS.

2.4 CONSTRAINTS

- All type of users shall be connected to the database locally.

2.4.1 SOFTWARE CONSTRAINTS

- Languages used are Python and a library in JavaScript 'ReactJS' for interface.
- The system must use the current standard MySQL database.

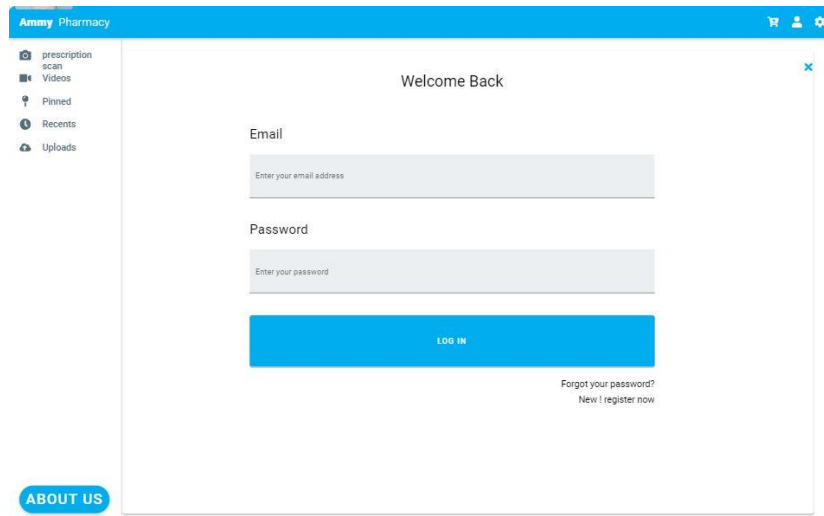
2.5 ASSUMPTIONS & DEPENDENCIES

- It is assumed that all type of users involved in the use of the application have local connection to the database.

3- INTERFACES

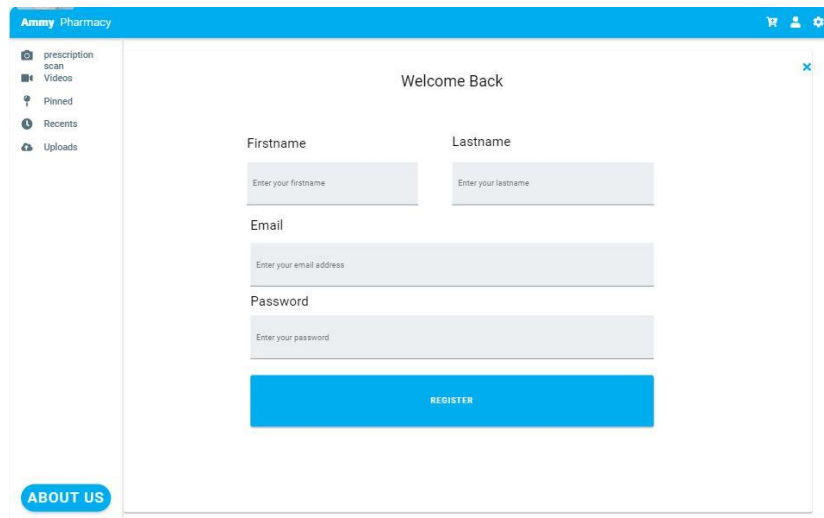
3.1 SYSTEM INTERFACE

A first-time user of web application should see the log-in page when the user opens the application; go to Figure 01 & Figure 02. If the user is not registered in the system and does not exist in the database system, he/she will be able to open the Sign-Up page. So, the user will create account to be able to use the application.



The image shows a web application interface for "Ammy Pharmacy". At the top, there is a blue header bar with the text "Ammy Pharmacy" on the left and icons for a shopping cart, user profile, and settings on the right. Below the header, on the left side, is a vertical sidebar menu with icons and labels for "prescription scan", "Videos", "Pinned", "Recents", and "Uploads". The main content area is titled "Welcome Back" and contains a login form. The form has two input fields: "Email" with the placeholder text "Enter your email address" and "Password" with the placeholder text "Enter your password". Below these fields is a large blue button labeled "LOG IN". At the bottom right of the form, there is a link that says "Forgot your password? New? register now". At the bottom left of the page, there is a blue button labeled "ABOUT US".

Figure 01 – Log-in Page



The image shows a web application interface for "Ammy Pharmacy", similar to the one in Figure 01. It has the same blue header bar and sidebar menu. The main content area is titled "Welcome Back" and contains a registration form. The form has four input fields: "Firstname" with the placeholder text "Enter your firstname", "Lastname" with the placeholder text "Enter your lastname", "Email" with the placeholder text "Enter your email address", and "Password" with the placeholder text "Enter your password". Below these fields is a large blue button labeled "REGISTER". At the bottom left of the page, there is a blue button labeled "ABOUT US".

Figure 02 – Sign-Up Page

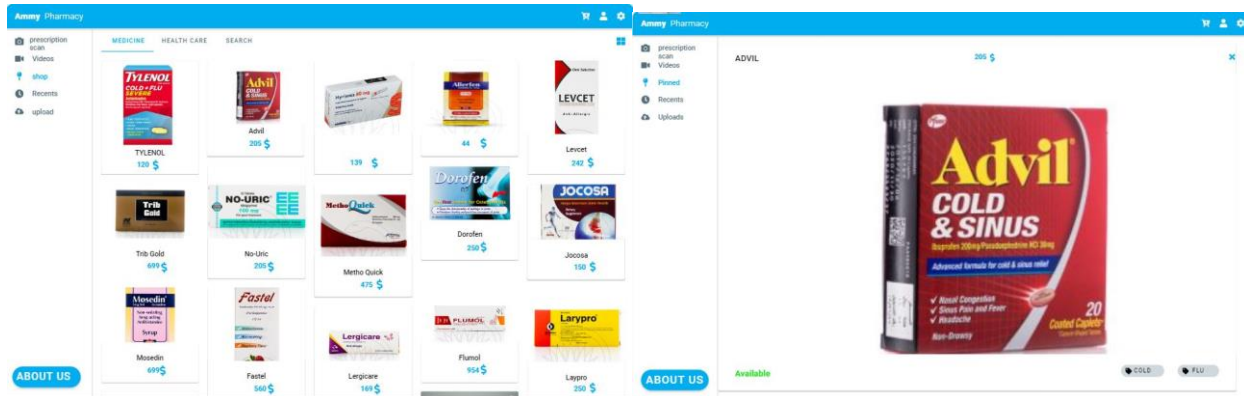


Figure 03 – Homepage

Figure 04 – Medicine Details

If the user is not a first-time user, the user should be able to see the home page after he log-in, see Figure 04. The home page contains 3 sections, 1st section is listing all the available medicine, 2nd section is “About us”, and the 3rd section is the cart button to let the customer/patient see his/her ordered products before proceeding to checkout.

4-FUNCTIONAL REQUIREMENTS

4.1 CUSTOMER CLASS

4.1.1 FUNCTIONAL REQUIREMENTS

Title: Customer signup

Desc: System shall allow customers to be able to sign up so they can be registered on the system.

Customer provides required info which includes:

- First Name
- Last Name
- Email (unrepeated email)
- Phone Number
- Password (at least 8 characters & contain a special character & at least one capital letter)
- Age (At least 16 years old)

4.1.2 FUNCTIONAL REQUIREMENTS

Title: Customer login

Desc: System shall allow customers to be able to login to an existing account using their registered Phone number and Password.

4.1.3 FUNCTIONAL REQUIREMENTS

Title: Delete Account

Desc: System shall allow customers to be able to Delete their account.

4.1.4 FUNCTIONAL REQUIREMENTS

Title: Update Profile Info

Desc: System shall allow customers to be able to update their profile information.

Customer provides required info which includes:

- First Name
- Last Name
- Email (unrepeated email)
- Phone Number
- Password (at least 8 characters & contain a special character & at least one capital letter)
- Age (At least 16 years old)

4.1.5 FUNCTIONAL REQUIREMENTS

Title: Add New Address

Desc: System shall allow customers to be able to add a new address to their addresses list.

Customer provides required info which includes:

- City
- Area
- St name
- Building number

- Floor number
- House number

4.1.6 FUNCTIONAL REQUIREMENTS

Title: View Addresses

Desc: System shall allow customers to be able to view their addresses list.

4.1.7 FUNCTIONAL REQUIREMENTS

Title: Payment Details

Desc: System shall allow customers to be able to add their payment cards.

User provides required info which includes:

- Card number (16 number)
- Exp date (month/year)
- CVV (3 numbers)

4.1.8 FUNCTIONAL REQUIREMENTS

Title: View Visa

Desc: System shall display all the customer's Visa.

4.1.9 FUNCTIONAL REQUIREMENTS

Title: View Orders

Desc: System shall display all the orders that the customer made.

4.1.10 FUNCTIONAL REQUIREMENTS

Title: Confirm Order

Desc: System shall allow customers to be able to proceed with confirming their order.

User provides required info which includes:

- Payment method
- Phone number & password (for confirmation)
- Chosen address (From the addresses list)
- Cart items

4.2 ADMIN CLASS

4.2.1 FUNCTIONAL REQUIREMENTS

Title: Add Employee

Desc: System shall allow Admin to be able to add a new employee.

Customer provides required info which includes:

- First Name
- Last Name
- Work Email (unrepeated email)
- Phone Number
- Password (at least 8 characters & contain a special character & at least one capital letter)
- Section
- ID

4.2.2 FUNCTIONAL REQUIREMENTS

Title: Admin login

Desc: System shall allow Admin to be able to login to the system using their ID and Password.

4.2.3 FUNCTIONAL REQUIREMENTS

Title: view customers

Desc: System shall display all the customers' main details to the admin.

4.2.4 FUNCTIONAL REQUIREMENTS

Title: View Full Customer Info

Desc: System shall display the customer information in details to the admin by providing the customer's phone number.

4.2.5 FUNCTIONAL REQUIREMENTS

Title: Delete Customer

Desc: System shall allow Admin to be able to delete any customer by using their phone number.

4.3 ADMIN CLASS

4.3.1 FUNCTIONAL REQUIREMENTS

Title: Add Product

Desc: System shall allow Admin to be able to add new medicine and products to the stock.

Admin provides required info which includes:

- Medicine name
- Company
- Active ingredients
- Price
- Amount
- photo

4.3.2 FUNCTIONAL REQUIREMENTS

Title: top ten products

Desc: System shall allow customers to be able to view top 10 products.

4.3.3 FUNCTIONAL REQUIREMENTS

Title: All products

Desc: System shall allow customers to be able to view all products.

4.3.4 FUNCTIONAL REQUIREMENTS

Title: Category products

Desc: System shall allow customers to be able to view products according to their category.

4.4 CART CLASS

4.4.1 FUNCTIONAL REQUIREMENTS

Title: Add to cart

Desc: System shall allow customer to be able to add medicine and products to cart.

4.4.2 FUNCTIONAL REQUIREMENTS

Title: view cart

Desc: System shall allow customer to be able to view their cart products.

4.4.3 FUNCTIONAL REQUIREMENTS

Title: delete from cart

Desc: System shall allow customer to be able to delete from their cart.

5-NON-FUNCTIONAL REQUIREMENT

5.1 RELIABILITY

- We are expecting that the average time between failures must be 4 times maximum per year.

5.2 RECOVERABILITY

- It is expected that the System must recover after a breakdown within 2 hours.

5.3 PERFORMANCE

- Expected time of loading pages in AMMY app should not exceed 1.5 second.

5.4 AVAILABILITY

- The system should be available to use 24 hours & 7 days.

5.5 USABILITY

- We are expecting that the user would take at max 30 minutes to use at least 90% of the system.
- We are expecting that the admin would take 1 hour training time to manage the system.

5.6 MAINTAINABILITY

- The system is using OOP, so any additional feature or operations can be added to the system afterwards.

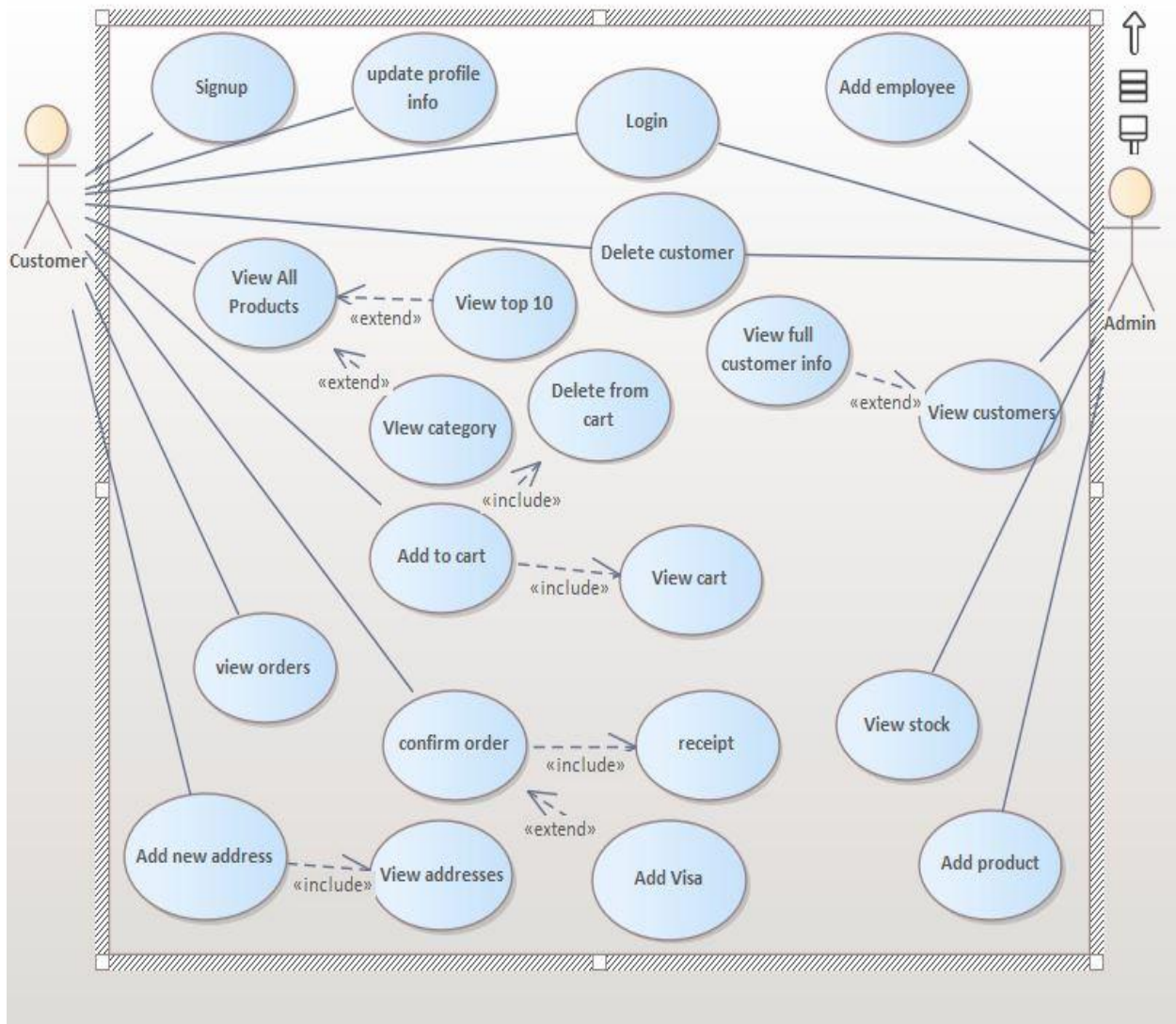
5.7 SECURITY

Data security should be maintained in our program to protect user information from hacking attempts and data corruption. We shall employ the following approaches to ensure data security, privacy, and system reliability:

- allowing only both read and write access to the database for system developers. Table structures cannot be deleted or changed by developers.


6-DIAGRAMS

6.1 USE CASE DIAGRAM




6.1.1 USE CASE SCENARIOS

Use Case 01

<div style="text-align: center;">  </div>	
Use case Name	Sign-up
Actors	Customer (First use)
Main success scenario:	<ol style="list-style-type: none"> 1. System prompts the Customer to login or signup with a new account. 2. Customer chooses signup 3. System prompts the Customer to enter the needed information first name, last name, phone number, etc. 4. The Customer fill in the information 5. Customer presses done 6. System checks if the phone number and email are unique. 7. system register the Customer as a new user.
Exceptions	<ol style="list-style-type: none"> 5a. The Customer presses done without filling all the information 6a. The customer enters a Invalid or used phone number and email
Actions	<ol style="list-style-type: none"> 5.1 System display error alert “Please Fill in all the needed information”. 5.2 The Customer completes the missing information. 6.1 The System display error alert “Invalid Phone number or email”. 6.2 The Customer enter a different phone number or email.
Pre-condition	The Customer opens the app for the first time
Post condition	<p>The Customer is registered successfully.</p> <p>The Customer information is stored in our database.</p>


6.1.2 USE CASE SCENARIOS

Use Case 02

	
Use case Name	Add employee
Actors	Admin(Already Existing in the system)
Main success scenario:	1.The Admin choses “Add employee” option. 2.System prompts the Admin to enter the needed information first name, last name, Work email, ID, etc. 4.The Admin fills in the information. 5. Admin presses done. 6. System checks if the ID and work email are unique. 7.system register the new employee.
Exceptions	5a. The Admin presses done without filling all the information 6a. The Admin enters a Invalid or existing ID and Work email.
Actions	5.1 System displays error alert “Please Fill in all the needed information”. 5.2 The Admin completes the missing information. 6.1 The System displays error alert “Invalid ID or Work email”. 6.2 The Admin enter a different ID or Work email.
Pre-condition	An existing admin in the system is logged in.
Post condition	The New employee is registered successfully. The New employee information is stored in our database. The New employee can now login to the system.


6.1.3 USE CASE SCENARIOS

Use Case 03

	
Use case Name	Login
Actors	Admin/Customer
Main success scenario:	1.The Admin/customer open the app and chooses to login. 2.System prompts the Admin/Customer to enter the needed information to login ID/Phone number and password. 4.The Admin/Customer enter the information. 5. Admin/Customer presses done. 6. System checks if the ID/Phone number and password exists in the database. 7.system allows Admin/Customer into the system.
Exceptions	5a. The Admin/Customer presses done without filling in all the information. 6a. The Admin/Customer enters an incorrect ID/Phone number and password.
Actions	5.1 System displays error alert “Please Fill in all the missing columns”. 5.2 The Admin/Customer completes the missing information. 6.1 The System displays error alert “Invalid Values entered”. 6.2 The Admin/Customer enter a the correct ID/Phone number or password.
Pre-condition	The Admin/Customer already exists in the Database.
Post condition	The Admin /Customer is logged in successfully.


6.1.4 USE CASE SCENARIOS

Use Case 04

<div style="text-align: center;">  </div>	
Use case Name	Delete customer
Actors	Admin/Customer
Main success scenario:	1.The Admin/customer open the app and chooses to Delete Customer. 2.System prompts the Admin/Customer to enter the needed information to delete the account Phone number and password. 4.The Admin/Customer enter the information. 5. Admin/Customer presses done. 6. System checks if the Phone number and password exists in the database. 7.system deletes the account successfully.
Exceptions	5a. The Admin/Customer presses done without filling in all the information. 6a. The Admin/Customer enters an incorrect Phone number and password.
Actions	5.1 System displays error alert “Please Fill in all the missing columns”. 5.2 The Admin/Customer completes the missing information. 6.1 The System displays error alert “Invalid Values entered”. 6.2 The Admin/Customer enter the correct Phone number and password.
Pre-condition	The Customer who is going to be deleted already exists in the Database.
Post condition	The deleted Customer is removed successfully.


6.1.5 USE CASE SCENARIOS

Use Case 05

	
Use case Name	View all products
Actors	Customer
Main success scenario:	1.The customer chooses to view all products. 2.System displays all the products in the system.
Post condition	System displays all the results found.


6.1.6 USE CASE SCENARIOS

Use Case 06

	
Use case Name	View customers
Actors	Admin
Main success scenario:	1.The Admin chooses “View customers” option. 2.System retrieves the Customers list from the Database. 3.The system displays the Customers list to the admin.
Pre-condition	The Admin is Logged in to the system.
Post condition	The system displays the customers list sussesfully.


6.1.7 USE CASE SCENARIOS

Use Case 07

	
Use case Name	Add to cart
Actors	Customer
Main success scenario:	1.The customer opens the page of a medicine and press “add to cart”. 2.The system adds the product to the customer’s cart list. 3.the system saves the list in the database.
Exceptions	2a.The product is out of stock.
Actions	2.1 System displays error alert “Sorry,The product is out of stock right now”.
Pre-condition	Customer viewed the product page.
Post condition	The system adds the product to the cart list and save it to the database.


6.1.8 USE CASE SCENARIOS

Use Case 08

<div style="text-align: center;">  </div>	
Use case Name	View orders
Actors	Customer
Main success scenario:	1.The Customer chooses “View orders” option. 2.System retrieves the Customer’s history orders list from the Database. 3.The system displays the orders list to the Customer.
Exceptions	2a. The Customer did not make any order before.
Actions	5.1 System displays error alert “No Orders found”.
Pre-condition	The Customer made at least 1 order before.
Post condition	The system displays the order list to the customer.


6.1.9 USE CASE SCENARIOS

Use Case 09

	
Use case Name	confirm order
Actors	Customer
Main success scenario:	<ol style="list-style-type: none"> 1.The customer chooses to confirm their order. 2.The System prompts the Customer to choose a payment card. 3.The customer chooses a card from his card lists or adds a new one. 4.The system checks if the card is valid. 5.The system prompts the Customer to choose which address to use. 6.The customer choose an address from the addresses list. 7.The system adds the medicine in the cart list and ask the customer to enter their Phone number and password for confirmation. 8.The Customer enter their Phone number and password then press confirm. 9.The system confirms the order and take the medicine list from the database.
Exceptions	<ol style="list-style-type: none"> 4a. The card is not valid. 8a. The Customer enters an incorrect Phone number and password.
Actions	<ol style="list-style-type: none"> 4.1 System displays error alert “The card is not valid”. 4.2 The Customer enter a new valid card. 8.1 The System displays error alert “Invalid Values entered”. 8.2 The Customer enter the correct Phone number and password.
Pre-condition	<p>The Customer have at least one item in the cart list.</p> <p>The customer have at least one address registered.</p>
Post condition	<p>The system adds the order to the orders list of the customer in the database.</p> <p>The system prints the customer’s order receipt.</p>


6.1.10 USE CASE SCENARIOS

Use Case 10

	
Use case Name	view stock
Actors	Admin
Main success scenario:	1.The Admin chooses “view stock” option. 2.System retrieves all items in the stock from the Database. 3.The system displays the items list to the admin.
Pre-condition	The Admin is Logged in to the system.
Post condition	The system displays the items list successfully.


6.1.11 USE CASE SCENARIOS

Use Case 11

	
Use case Name	Add new address
Actors	Customer
Main success scenario:	1.The Customer chooses “Add New Address” option. 2.System prompts the Customer to enter the needed information city, area, st name, etc. 3.The Customer fills in the information. 4.The Customer presses done. 5.The system adds the new address to the addresses list of the customer.
Exceptions	4a. The Customer presses done without filling in all the information.
Actions	5.1 System displays error alert “Please Fill in all the missing columns”. 4.2 The Customer completes the missing information.
Pre-condition	The Customer is already logged in the system.
Post condition	The system adds the address to the customer addresses list in the database.

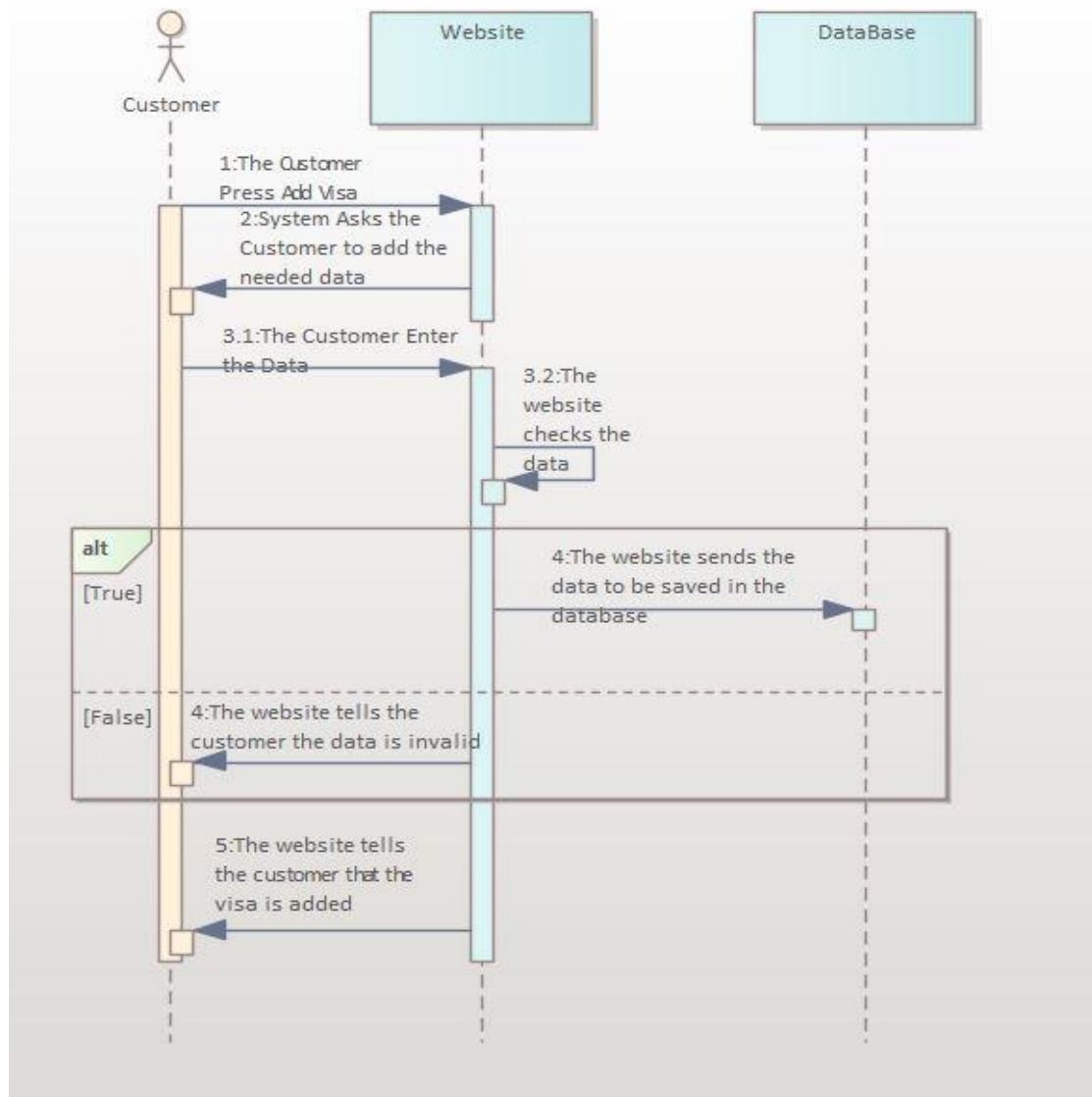
6.1.12 USE CASE SCENARIOS

Use Case 12

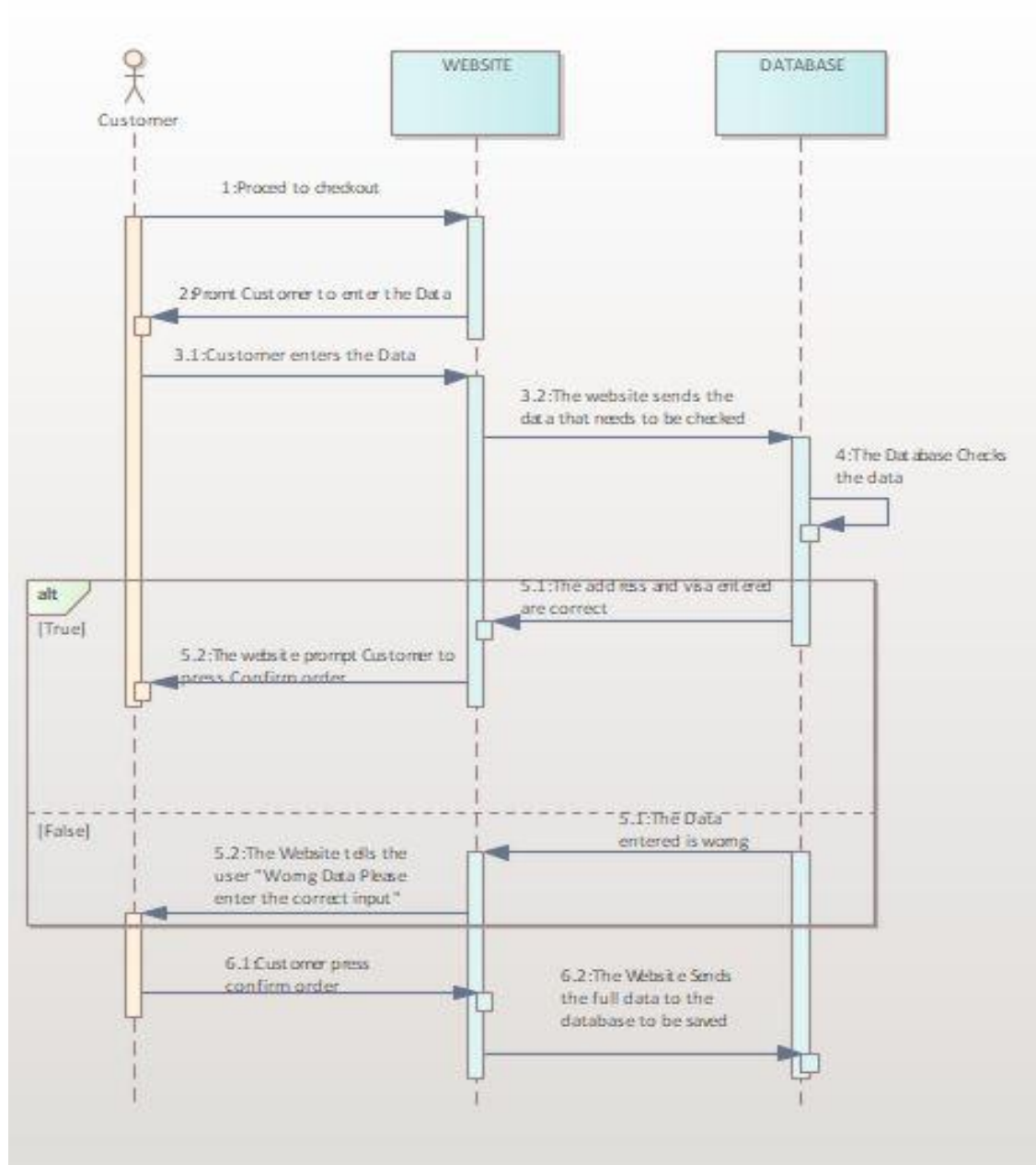
	
Use case Name	Add product
Actors	Admin
Main success scenario:	1.The Admin chooses “Add product” option. 2.System prompts the Admin to enter the needed information name, company, active ingredient, etc. 3.The Admin fills in the information. 4.The Admin presses done. 5.The system adds the product to the database.
Exceptions	4a. The Admin presses done without filling in all the information.
Actions	5.1 System displays error alert “Please Fill in all the missing columns”. 4.2 The Admin completes the missing information.
Pre-condition	The Admin is already logged in the system.
Post condition	The system adds the product to the stock in the database.

6.2-SEQUENCE DIAGRAMS

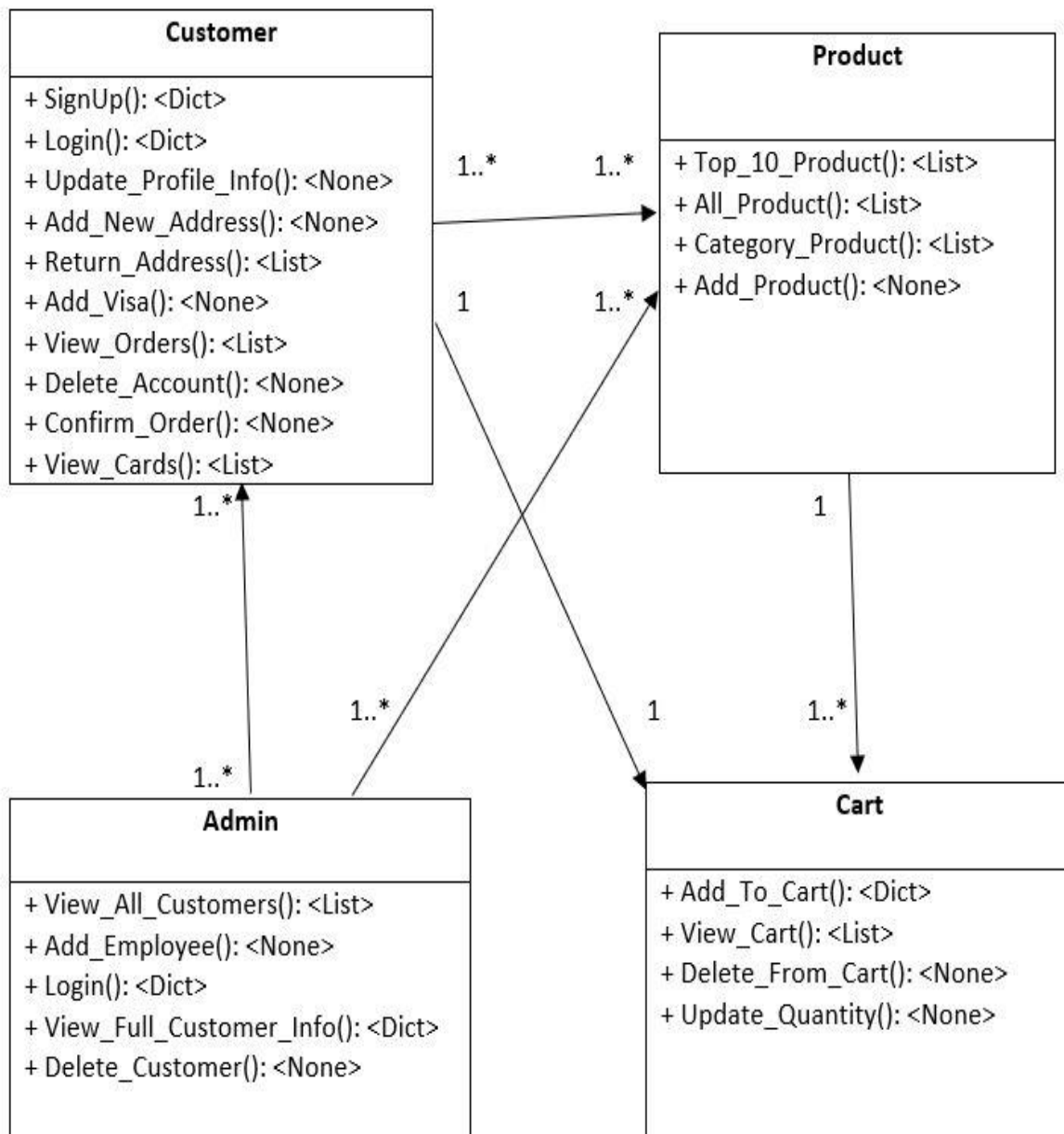
6.2.1-ADD VISA



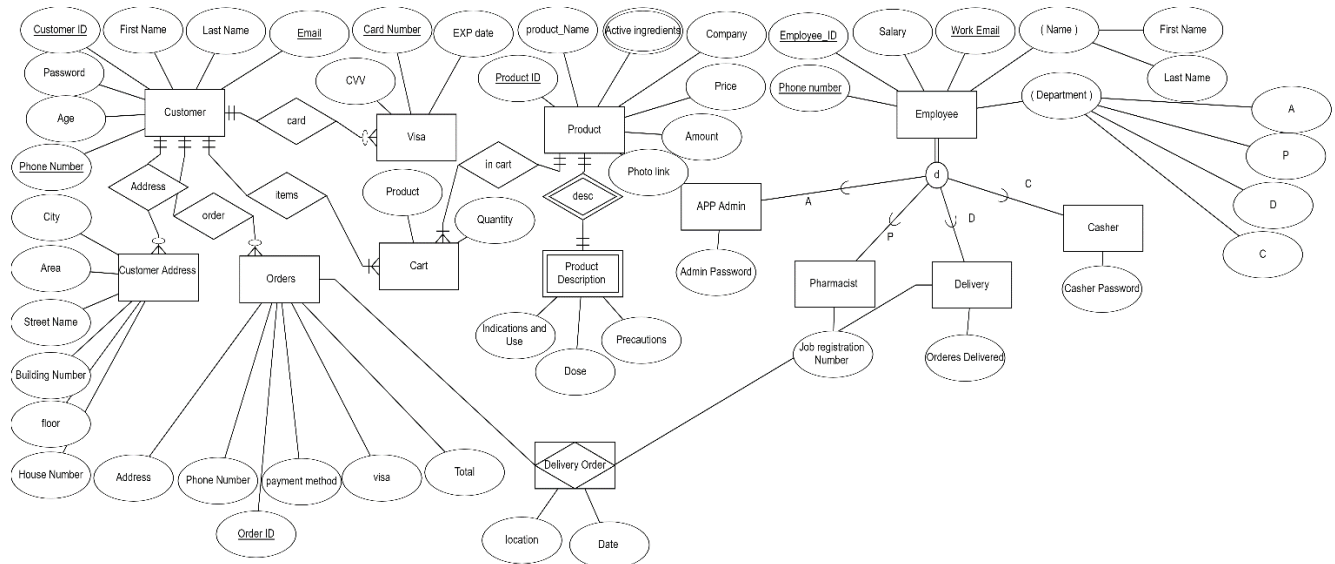
6.2.2-CONFIRM ORDER



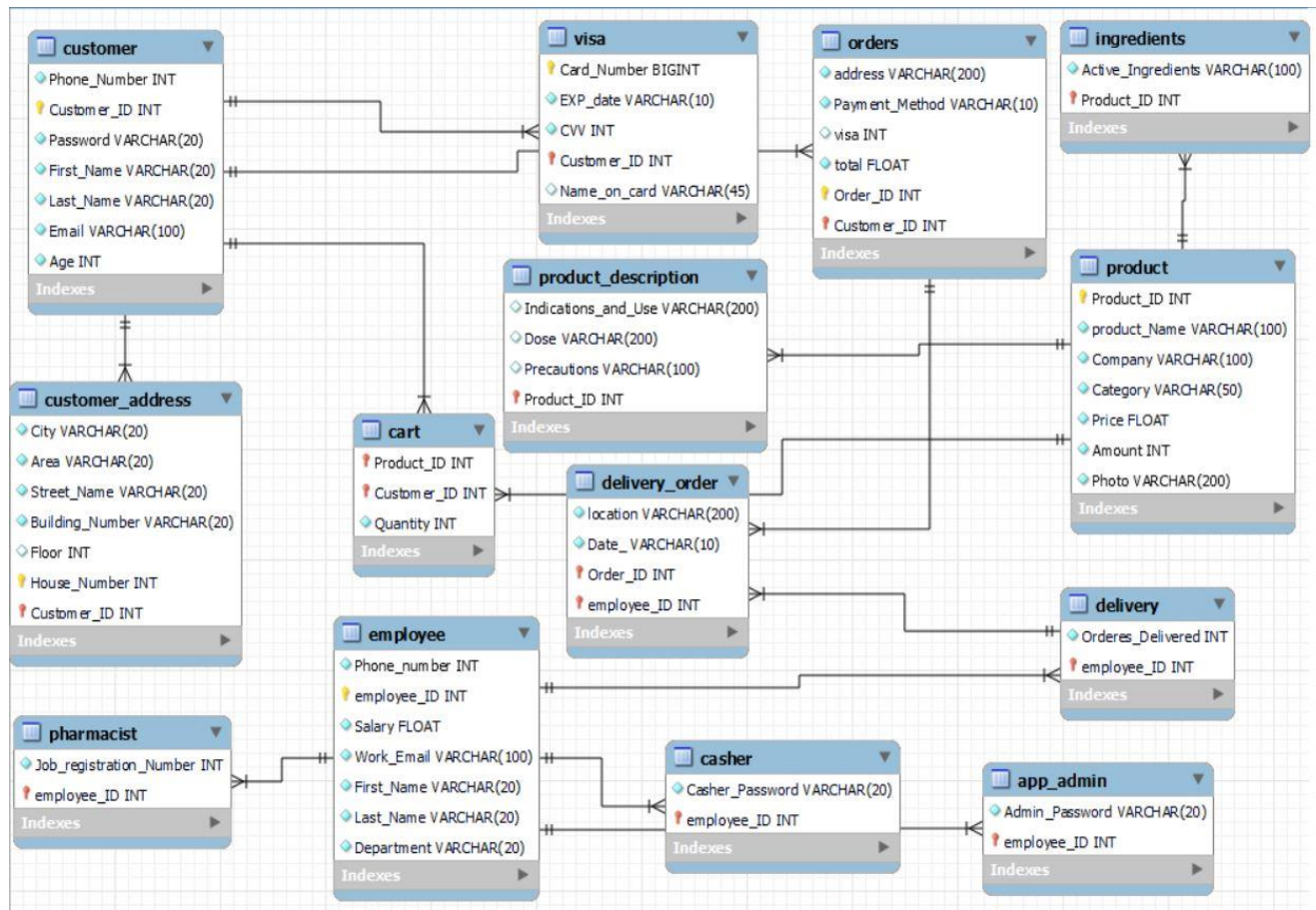
7.3 CLASS DIAGRAM



8.4 ER DIGRAM



8.5-RELATIONAL SCHEMA



8.5.1-BUSINESS RULES

- 1)Each Customer has a unique ID, First Name, Last Name, Email, Password, Age, Phone Number
- 2)Each Customer Address has City, Area, Street Name, Building Number, Floor, House Number
- 3)Each Customer Address must be linked with one and only customer
- 4)Each Customer may have one or more address or none
- 5)Each Order has a unique ID, Address, Phone Number, Payment Method, Visa, Total
- 6)Each Customer Order must be linked with at one and only customer
- 7)Each Customer may or may not have an order or multiple customer orders
- 8)Each Cart Item has Product, Quantity
- 9)Each Cart Item must be linked with one and only customer
- 10)Each Customer must have at least one cart item
- 11)Each Visa has a unique Card Number, CVV, EXP Date
- 12)Each Visa Card must be linked with one and only customer
- 13)Each Customer may have one or more Visa Card
- 14)Each Product has a unique ID, Name, Company, Price, Amount, Photo, and Active Ingredient can have multiple values
- 15)Each Product in cart can be in one or more cart
- 16)Each Cart must have one and only Product
- 17)A Product Description has Indications and Use, Dose, Precautions
- 18)Each Product must have one and only description
- 19)Each Product Description must be linked with one and only Product, otherwise, it will not exist
- 20)Each Delivery Order has Location, and Date
- 21)Each Order is delivered by one or more delivery man
- 22)Each Delivery employee can deliver one or more order
- 23)Each Employee has a unique Phone Number, a unique Employee ID, a unique Work Email, Salary, Name that contains his/her First Name and Last Name, and Department that can be APP Admin, Pharmacist, Delivery, or Cashier
- 24)Each APP Admin has an Admin Password
- 25)Each Pharmacist has Job registration number
- 26)Each Delivery has Orders Delivered

27)Each Cashier has Cashier Password

9-TEST CASES

9.1-TEST CASE 01

Test Case ID: T_C_Signup	Test Designed by: Yousef Adel Khalil
Test Priority (Low/Medium/High):Medium	Test Designed date: 12/24/2022
Module Name: Customer Signup	Test Executed by: Mostafa Samer Dorrah
Test Title: Customer Signup with valid inputs	Test Execution date:12/24/2022
Description: The Customer should enter valid including correct form for the email and password.	

Pre-conditions: The Customer just opened our website and doesn't have an account

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
1-	Enter the First Name	First name: Walid	Customer should be Signed up and Enter the home page	The Customer successfully entered the system and is in the homepage	Pass
2-	Enters the Last Name	Last Name: Ramy			
3-	Enter The Unique Phone Number	Phone Number:1055906711			
4-	Enter a valid email	Email:WalidRamy@gmail.com			
5-	Enter a valid Password	Walid@28Ramy			
6-	Enter Age	28			
7-	Press "Done"				

Post-conditions: The Customer data is saved in the database and is given a unique ID

9.2-TEST CASE02

Test Case ID: T_C_ADDCart	Test Designed by: Mostafa Samer Dorrah
Test Priority (Low/Medium/High): High	Test Designed date: 12/24/2022
Module Name: Customer Cart	Test Executed by: Yousef Adel Khalil
Test Title: Customer Add to cart	Test Execution date: 12/24/2022
Description: The Customer try to add a product to their cart	

Pre-conditions: The Customer is Logged into the website. The Customer is in the product page

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
1-	Choose the needed amount	Amount: 4	The Product should be added to the cart with quantity of 4	The Product is added to the Customer's cart and the Quantity next to the product is 4	Pass
2-	Press" ADD"				

Post-conditions: The Product is saved in the Database Table "Cart" under the ID of the customer with the chosen quantity.

9.3-TEST CASE03

Test Case ID: T_C_UpdateCart	Test Designed by: Abdelrahman Mohamed Elatrozy
Test Priority (Low/Medium/High): High	Test Designed date: 12/24/2022
Module Name: Customer Cart	Test Executed by: Mohamed Ahmed Mohamed
Test Title: Customer Update amount in cart	Test Execution date: 12/24/2022
Description: The Customer try to change the product amount in their cart	

Pre-conditions: The Customer is Logged into the website. The Customer is in the Cart page

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
1-	Next to the product press "+" to add one more	Quantity: 5	The Quantity next to the product should be 5	The Page refreshed and the Quantity is now 5	Pass
2-	Press" Done"				

Post-conditions: The Product Quantity is updated in the Database with the chosen new quantity.

9.4-TEST CASE04

Test Case ID: T_C_ViewOrders	Test Designed by: Mohamed Ahmed Mohamed
Test Priority (Low/Medium/High): Medium	Test Designed date: 12/24/2022
Module Name: Customer orders	Test Executed by: Abdelrahman Mohamed Elatrozy
Test Title: Customer View Orders	Test Execution date: 12/24/2022
Description: The Customer views the past orders	

Pre-conditions: The Customer have completed at least one order

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
1-	Press"View orders"		The system should Display all orders.	The system Displays all the customer orders on the screen.	Pass

9.2-TEST CASE05

Test Case ID:NT_A_Login	Test Designed by: Mostafa Samer Dorrah
Test Priority (Low/Medium/High): High	Test Designed date:12/23/2022
Module Name: Admin login	Test Executed by: Mostafa Samer Dorrah
Test Title: Admin incorrect login	Test Execution date: 12/24/2022
Description: The Admin enter invalid login info(Negative Test)	

Pre-conditions: The Admin already have an app admin account.

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)	Notes
1-	Enter invalid Work Email	Work Email: a_mostfa@ammy.com	The system will not allow the Admin to login	The system did not allow the Admin to login	Pass	The correct Email is: a_mostafa@ammy.com
2-	Enter Invalid Password	Password: Mo@11				The correct password is: Mo@101
3-	Press "login"					