PHARMACY

System description

It's a pharmacy system that assists customers in viewing and placing orders online and making a payment through (Visa, bank transfer, or cash on delivery).

The customers are obligated to register on the system and log in to place an order (check out) and get a medical consultation (chat with a doctor and get personal advice).

The customers can view the previously ordered products and all the order details.

They can edit their profiles, and change their password, email address, and personal information.

NON-FUNCTIONAL REQUIREMENTS:

Look-and-Feel REQ

-The system should use at most five colors.

Usability and humanity REQ

-The web site is designed for user friendly environment and ease of use.

-The system shall be easy to use from older people.

-The system shall be easy to use by who can't read English.
-The system shall be easy to use on the first attempt by a member of the public without training.

-The system must be easy to use.

-Users should be able to learn this system very quickly. It should be fairly intuitive.

-The information produced by the system should be understandable by anyone with general knowledge.(

Reliability Requirement

-The system should provide a reliable environment to both customers and Admin. All orders should be reaching at the admin without any errors.

Performance requirements

-The system shall use real-time payments for online medicine payment.
- The software shall support use of multiple users at a time (Throughput)
-The system shall, on average, operate without failure for1 week (Availability)

-The system shall control the input data with respect to time (Response Time)

Security REQs

-the system shall ensure that only authorized users are able to gain access.

-the system shall distinguish between authorized and non-authorized users.

- Some of the factors that are identified to protect the software from accidental or malicious access, use, modification, destruction, or disclosure are described below.

Implementation Requirement

-Implementation of the system using Html, css, Javascript and BOOTSTRAP in front end. Responsive web designing is used for making the website compatible for any type of screen. or history data sets.

Operational & Environmental REQs

-The system will be used in website so it must be protected against DDOs attacks.

Maintainability

-Any updates or defect fixes shall be able to be made on server-side computers only without any patches required by the user.

FUNCTIONAL REQUIREMENTS:

CUSTOMER:

1- Register:

1. The system shall allow a non-registered customer to create a new account.
   1.1- The system shall require the following information from the customer: first name, last name, username, password, E-mail, birthdate, gender.
   1.2- The system shall confirm the username is available (not taken).

2- Login:

1. The system shall allow a registered customer to log-in to their account.
   1.1- The system shall require a username and password from the customer.
   1.2- The system will verify the username and password, and the customer will be considered logged-in.

3- View Products:

1. The system shall allow customers to view products in categories.

4- Add to Cart:

1. The system shall allow customers to add multiple products to the cart.
2. The system shall calculate the total bill after adding products to cart.

5- Check out:

1. The system shall reserve the selected products on the customer's cart.
2. The system shall allow customers to make a partial payment and get a receipt.
3. The system shall validate that the medicine isn't a narcotic (check category).

6- Edit Profile:

1. The system shall allow a registered and logged-in customer to update their account information.
2. The customer shall be allowed to view and change their information after enter password.

7- View Previous Orders:

1. The system shall allow a registered and logged-in customer to view orders made with their account.
2. The system shall display the date of order, location, and products.

8- Get a medical consultation

1. The system should allow users to communicate with pharmacists through chat service.

9- Ask for delivery

1. The system shall allow customers to ask for delivery service.
   1.1- The system shall verify that the customer is logged in.
   1.2- The system shall require the location of the customer.
   1.3- The system shall determine the payment method (Cash on delivery, Credit card, Vodafone cash).

10- Logout:

1. The system shall allow customers to logout of the system.

ADMIN:

1- Login:

1. The system shall allow admin to log-in to his account.
   1.1- The system shall require a username and a password from the admin.
   1.2- The system shall verify the username and the password already exist.
   1.3- The admin will be considered logged-in and redirected to the home page.

2- View, Add, Delete and Update Admins Accounts:

1. Admin shall be able to add, delete and update admins accounts.

3- View, Add, Delete and Update Customers Accounts:

1. Admin shall be able to add, delete and update Customers accounts.

4- View, Add, Delete and Update pharmacists Accounts:

1. Admin shall be able to add, delete and update Pharmacists accounts.

5- Logout:

1. The system shall allow admins to logout of the system.

PHARMACIST:

1- Login:

1. The system shall allow pharmacists to log-in to his account.
   1.1- The system shall require a username and a password from the pharmacist.
   1.2- The system shall verify the username and the password.
   1.3- The pharmacist will be considered logged-in.

2- Add Product:

1. The system shall allow pharmacists to add products to the system.
   1.1- The system shall require a name, a photo, a description, and the price of the product.
   1.2- The system shall verify the product isn't already added.
   1.3- The system shall add the product to the product list.

3- Edit product:

The system shall allow pharmacists to edit products details.

4- Delete product:

1- The system shall allow pharmacists to delete a product.

5- Answer consultations:

1. The system shall allow pharmacists to answer patients' queries.

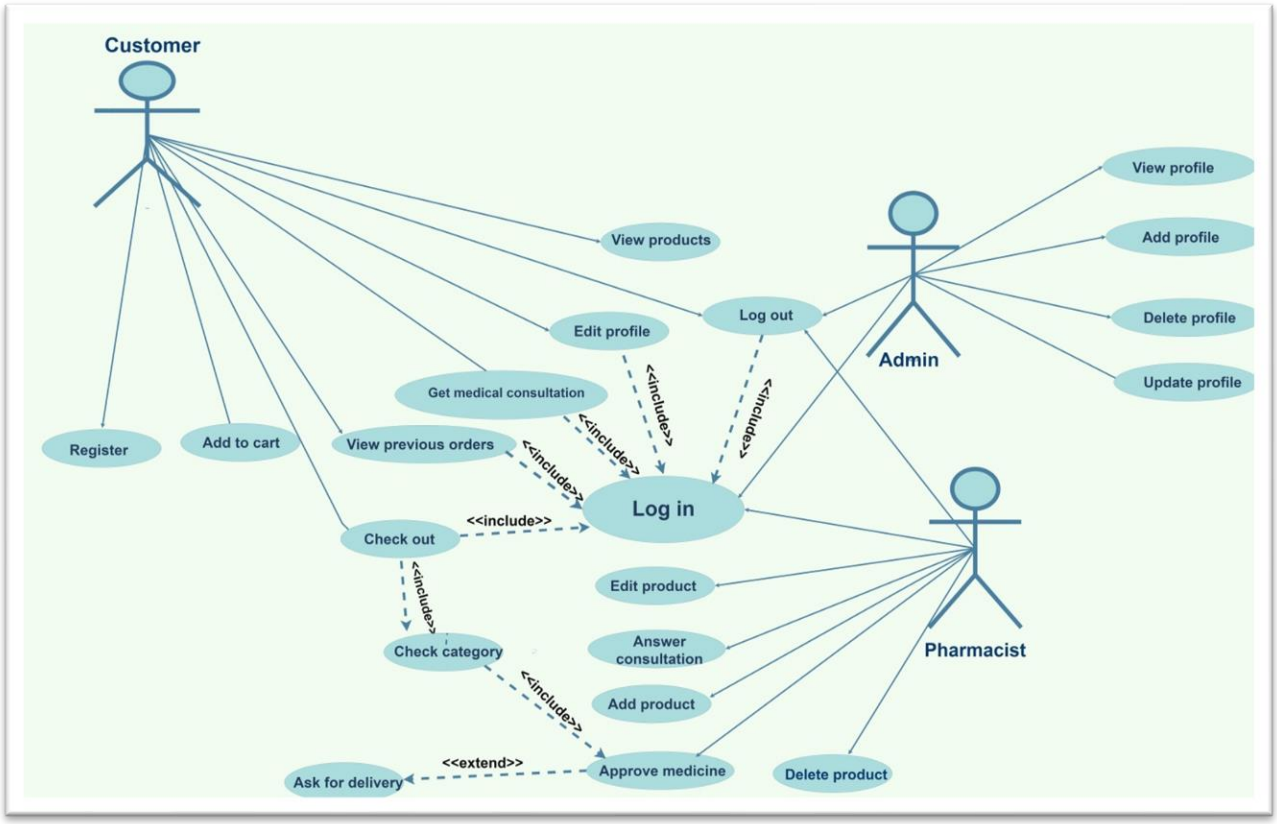
6- Approve medicine:

1- The system shall allow pharmacists to validate whether the medicine is a narcotic or not.

7- Logout:

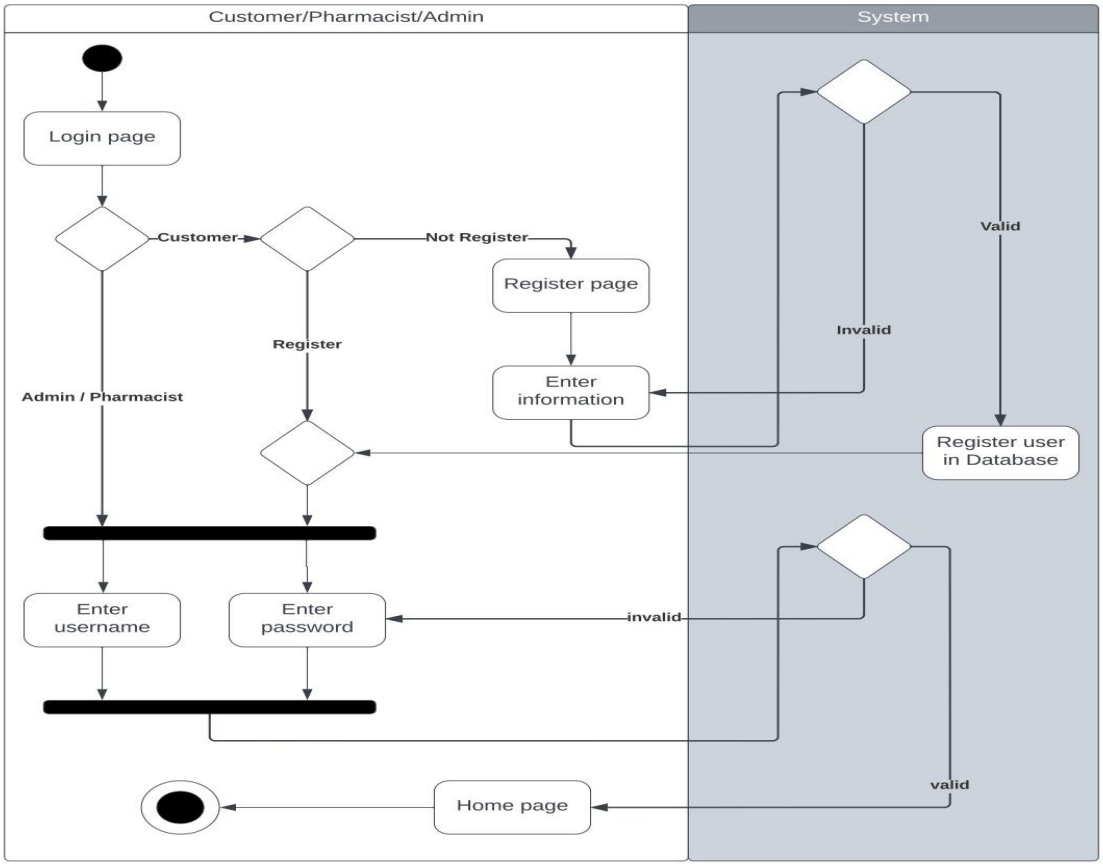
1. The system shall allow pharmacists to logout of the system.

USECASE DIAGRAM:

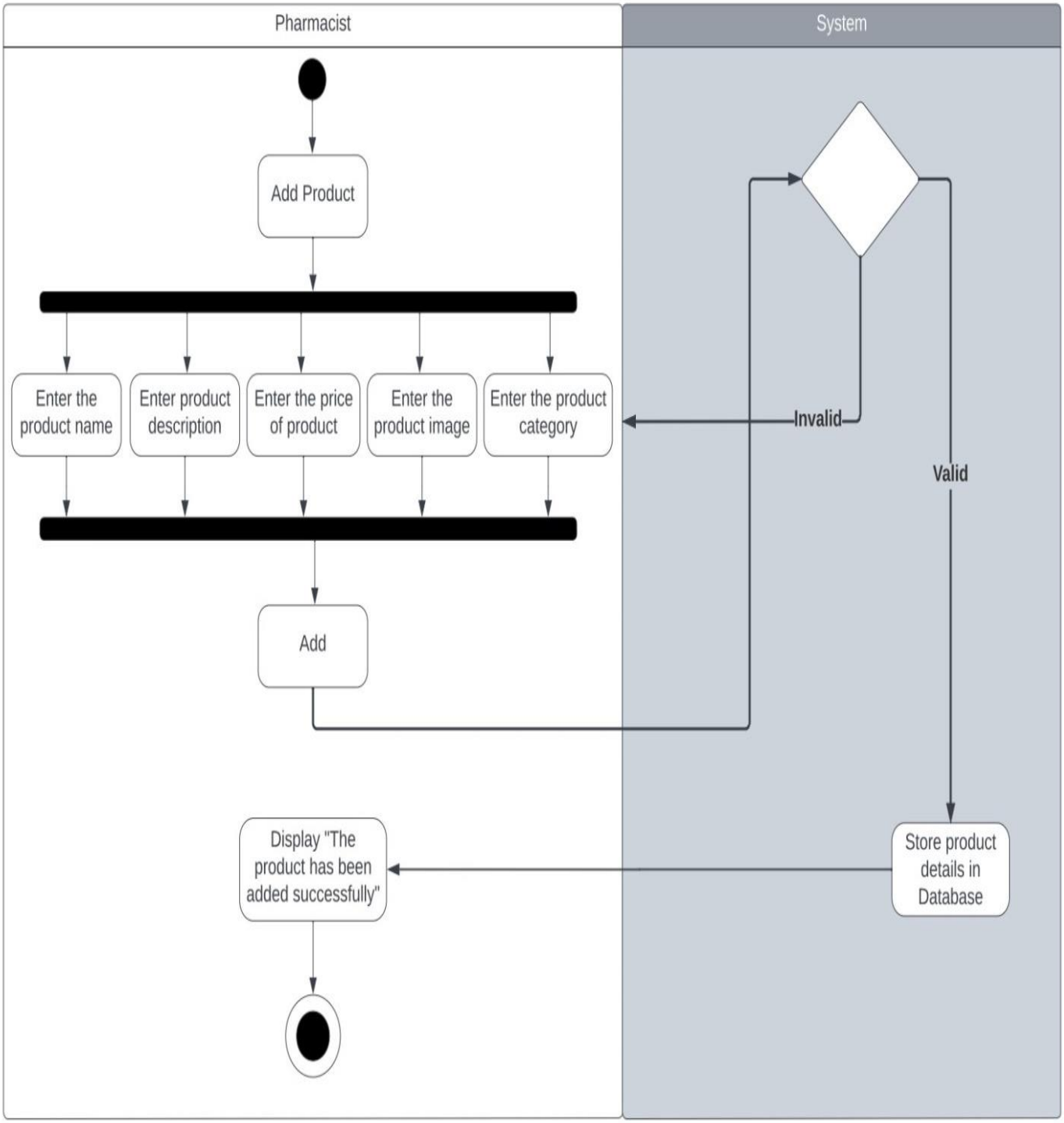


ACTIVITY DIAGRAM:

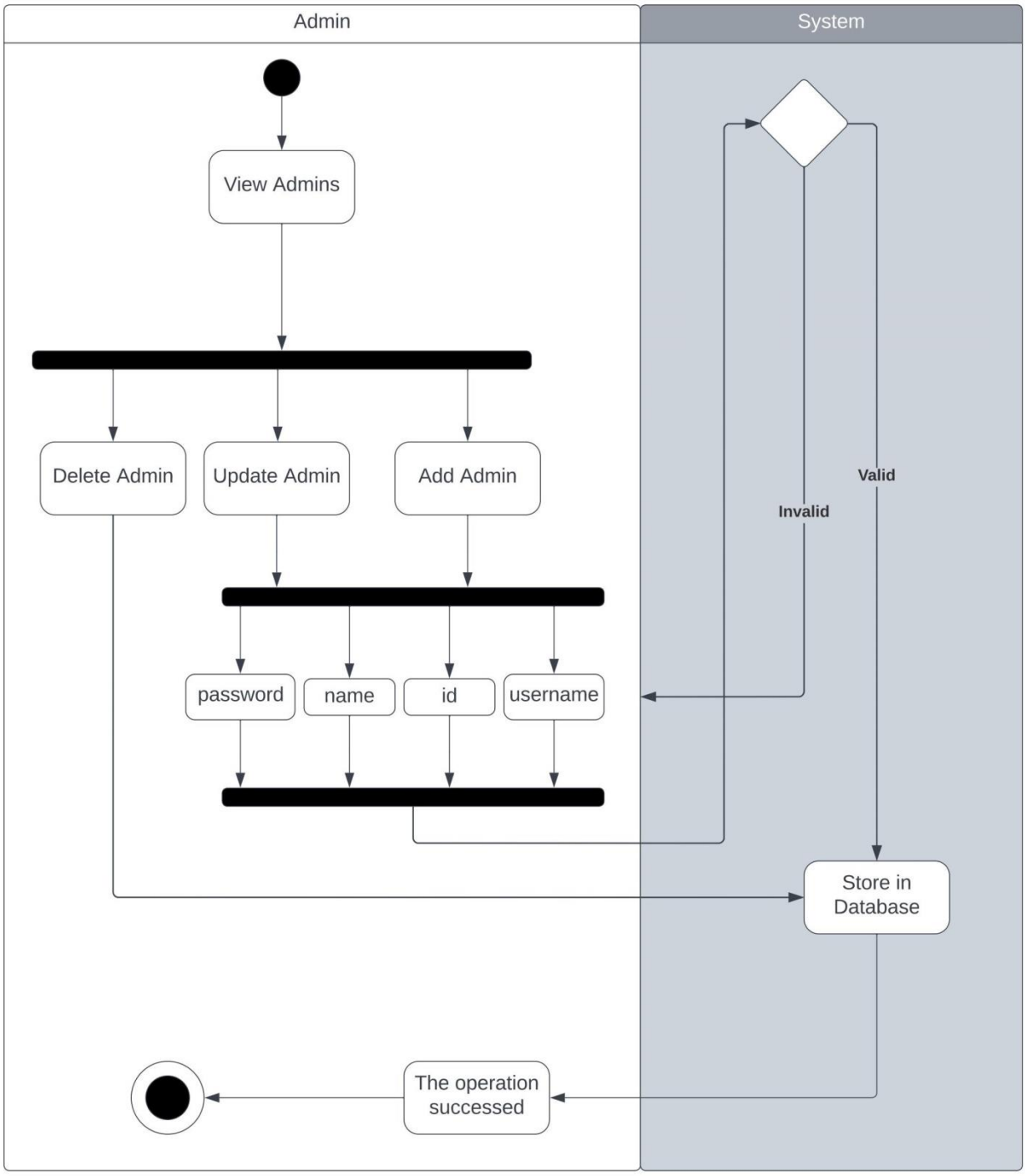
-Log in



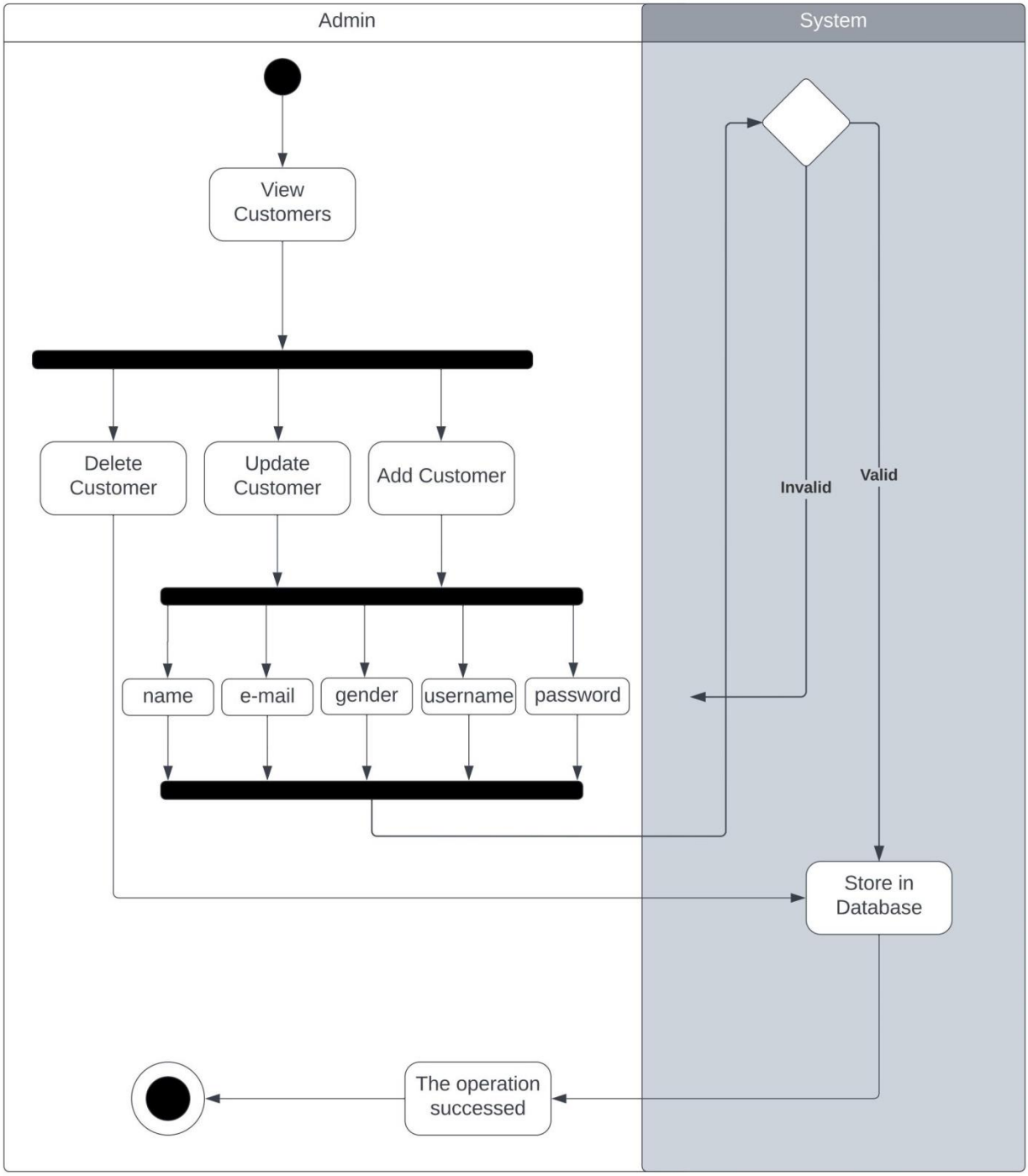
-Add product


Pharmacist
System
Add Product
Enter the product name
Enter product description
Enter the price of product
Enter the product image
Enter the product category
Invalid
Valid
Add
Display "The product has been added successfully"
Store product details in Database

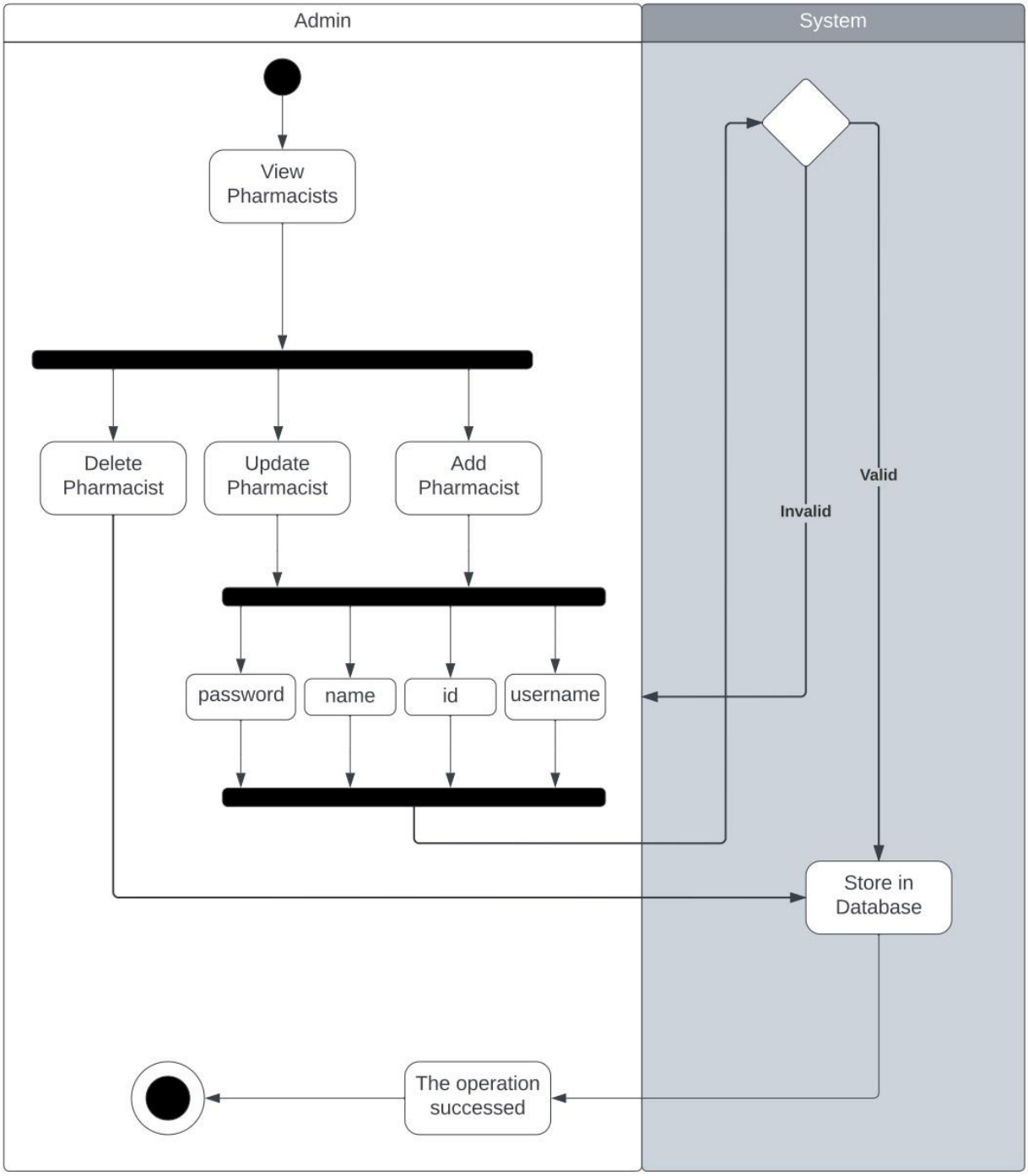
- View, Add, Delete and Update Admins accounts



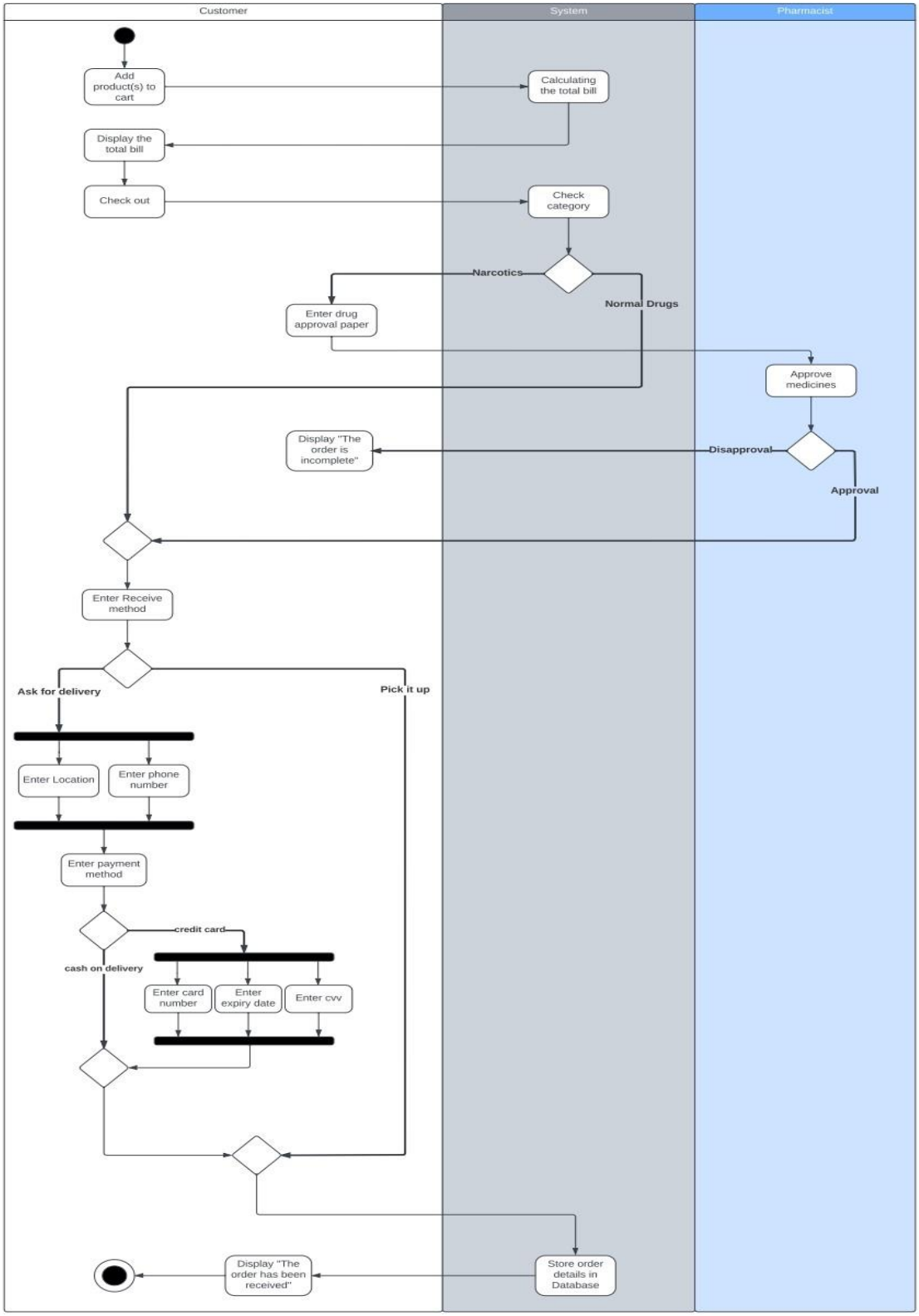
- View, Add, Delete and Update Customers accounts



- View, Add, Delete and Update Pharmacists accounts



- Add to cart and Check out



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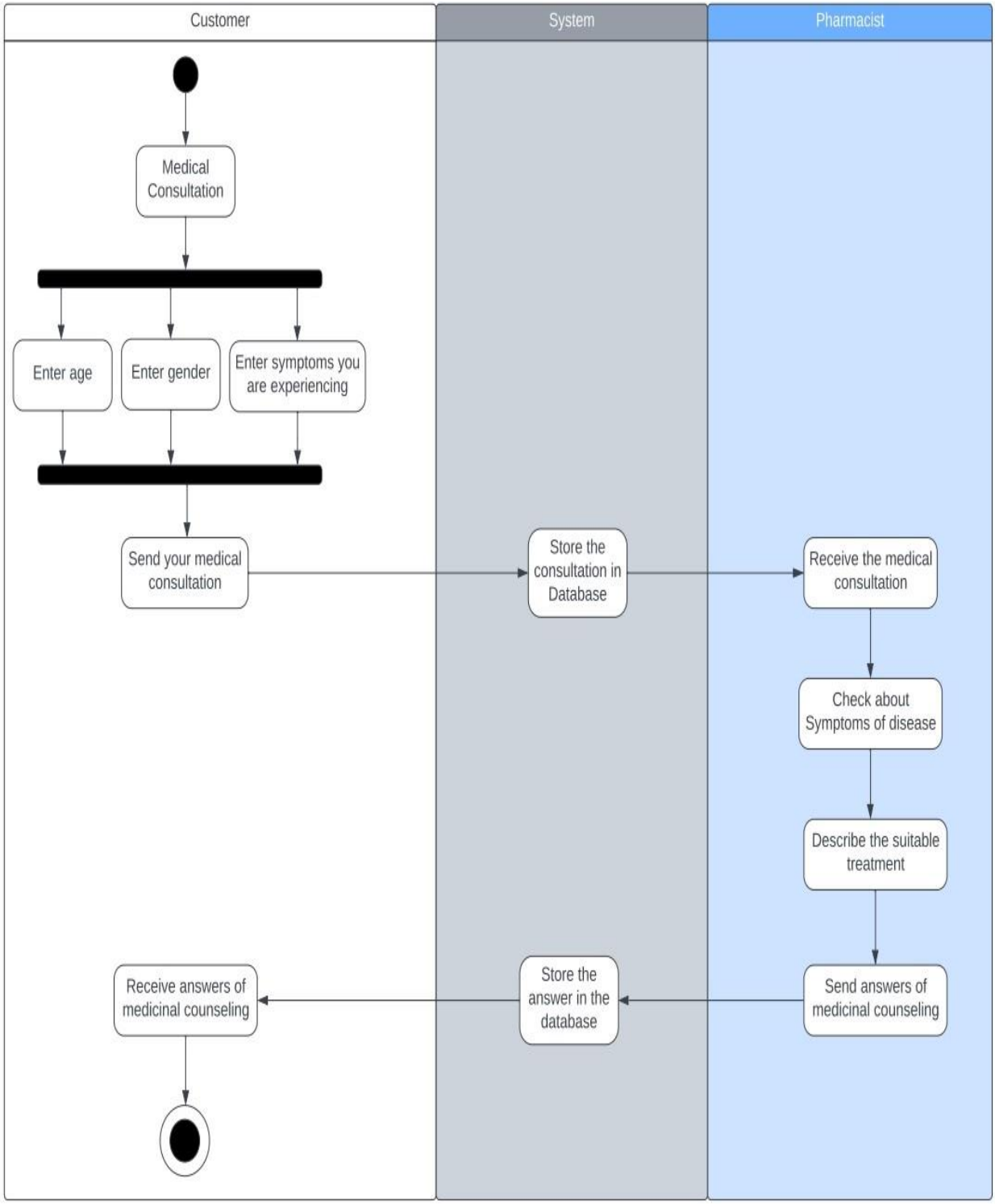
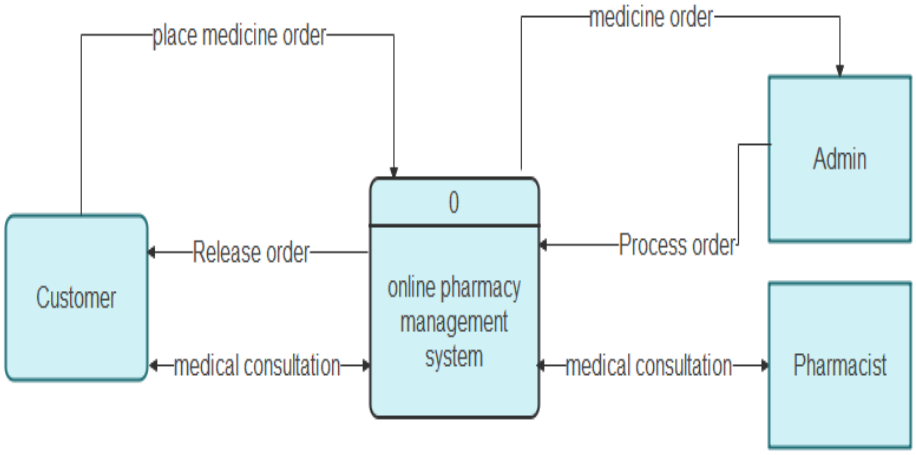
- Medical Consultation

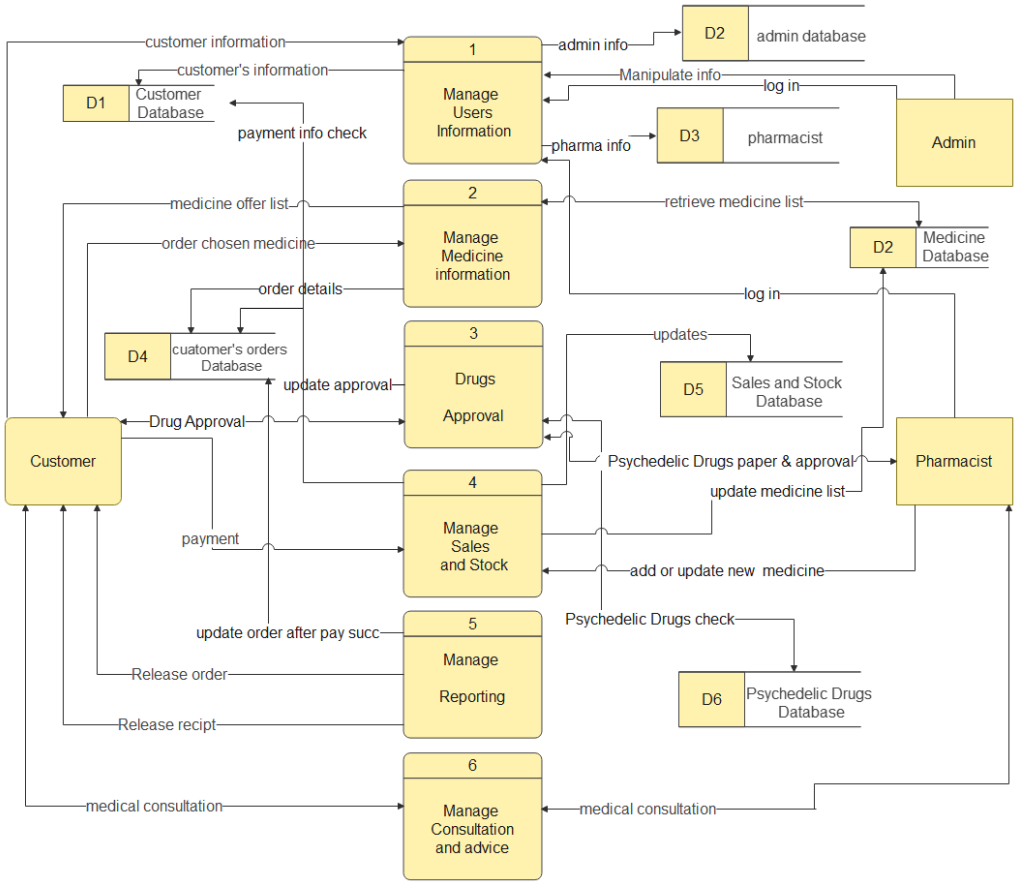


DATA FLOW DIAGRAM

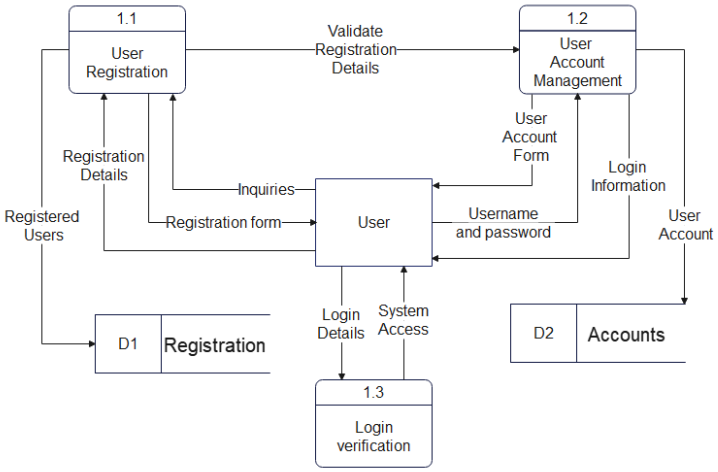
Level 0:

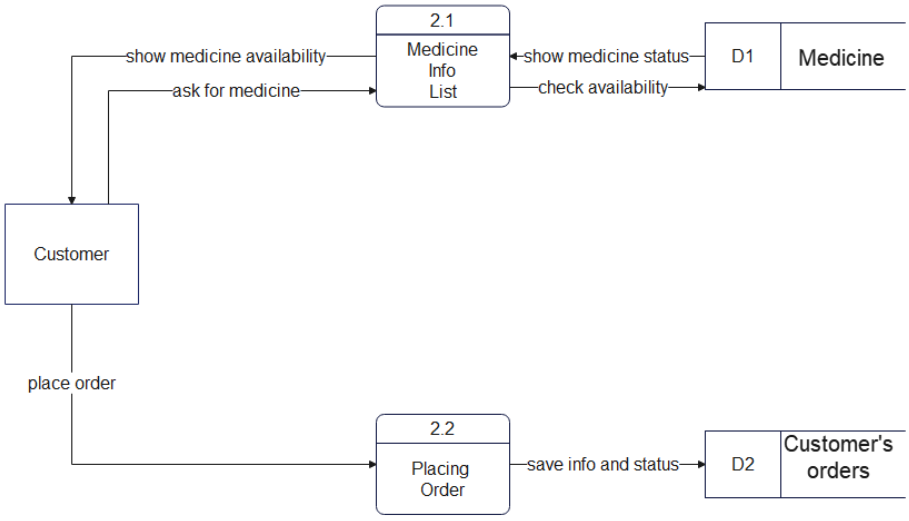


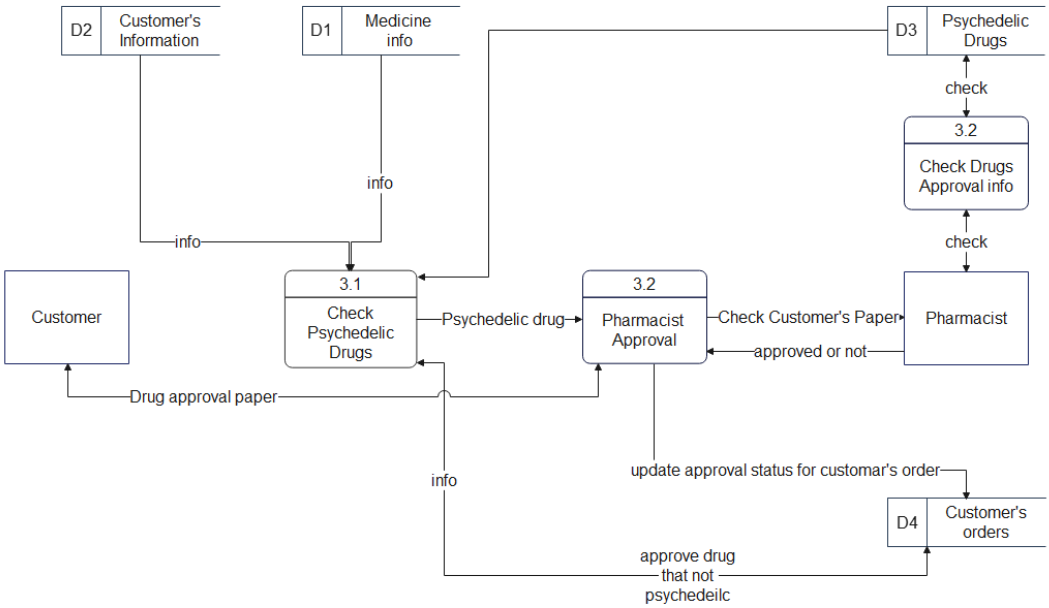
level 1

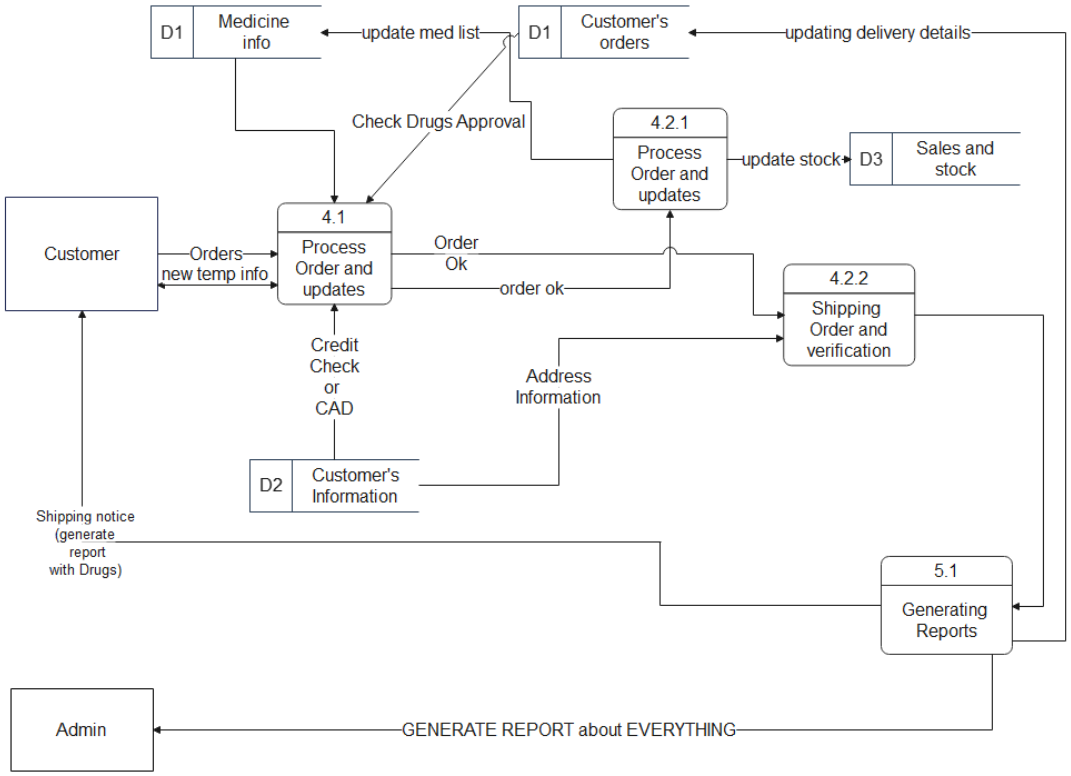

customer information
customer's information
D1
Customer Database
payment info check
1
Manage Users Information
admin info
D2
admin database
Manipulate info
log in
Admin
pharma info
D3
pharmacist
2
Manage Medicine information
medicine offer list
order chosen medicine
order details
retrieve medicine list
D2
Medicine Database
log in
D4
cuatomer's orders Database
3
Drugs Approval
update approval
Drug Approval
updates
D5
Sales and Stock Database
Customer
Psychedelic Drugs paper & approval
Pharmacist
update medicine list
4
Manage Sales and Stock
payment
add or update new medicine
Psychedelic Drugs check
update order after pay succ
5
Manage Reporting
Release order
Release recipt
D6
Psychedelic Drugs Database
6
Manage Consultation and advice
medical consultation
medical consultation

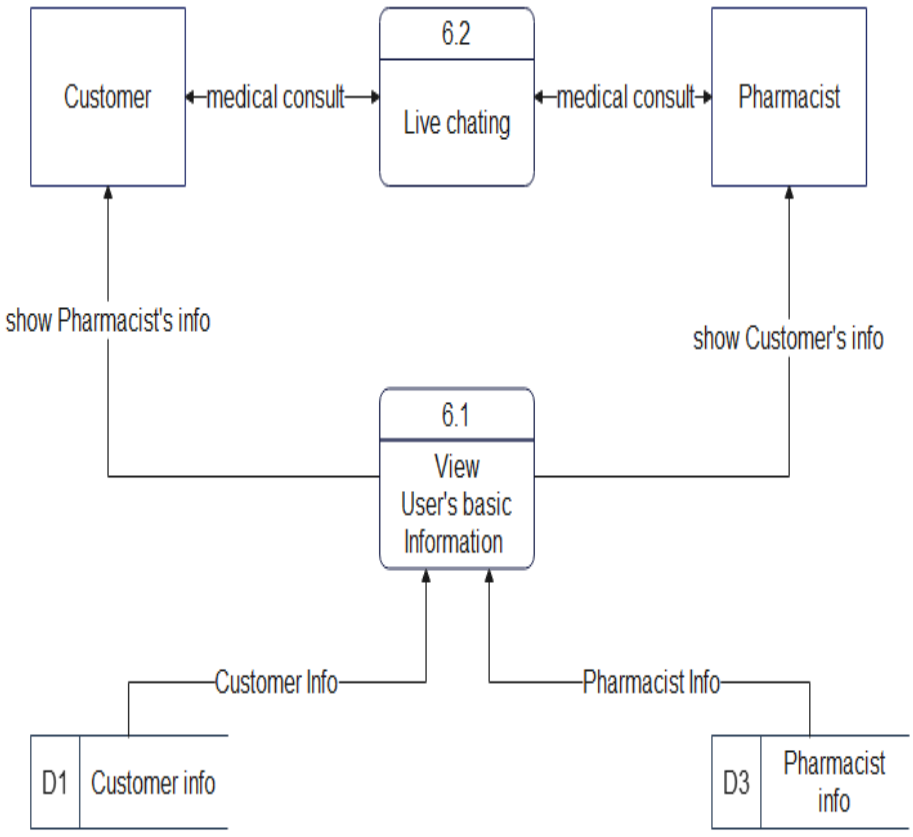
Level 2:


1.1
User Registration
Validate Registration Details
1.2
User Account Management
User Account Form
Registration Details
Inquiries
Login Information
Registered Users
Registration form
User
Username and password
User Account
D1
Registration
Login Details
System Access
D2
Accounts
1.3
Login verification

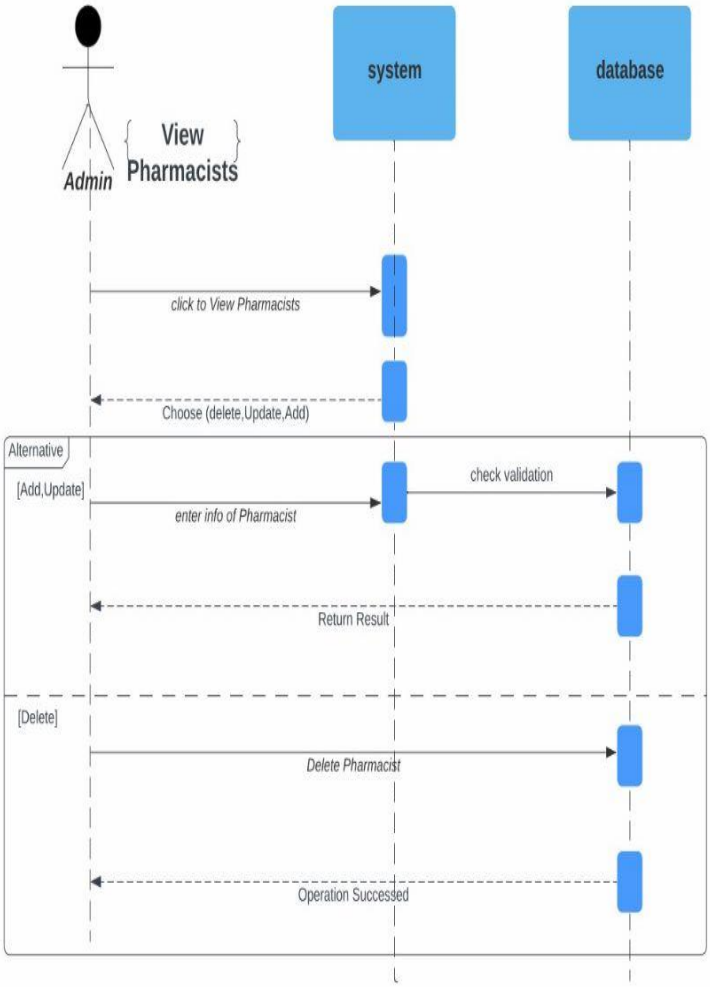

2.1
Medicine Info List
show medicine availability
ask for medicine
show medicine status
check availability
D1
Medicine
Customer
place order
2.2
Placing Order
save info and status
D2
Customer's orders

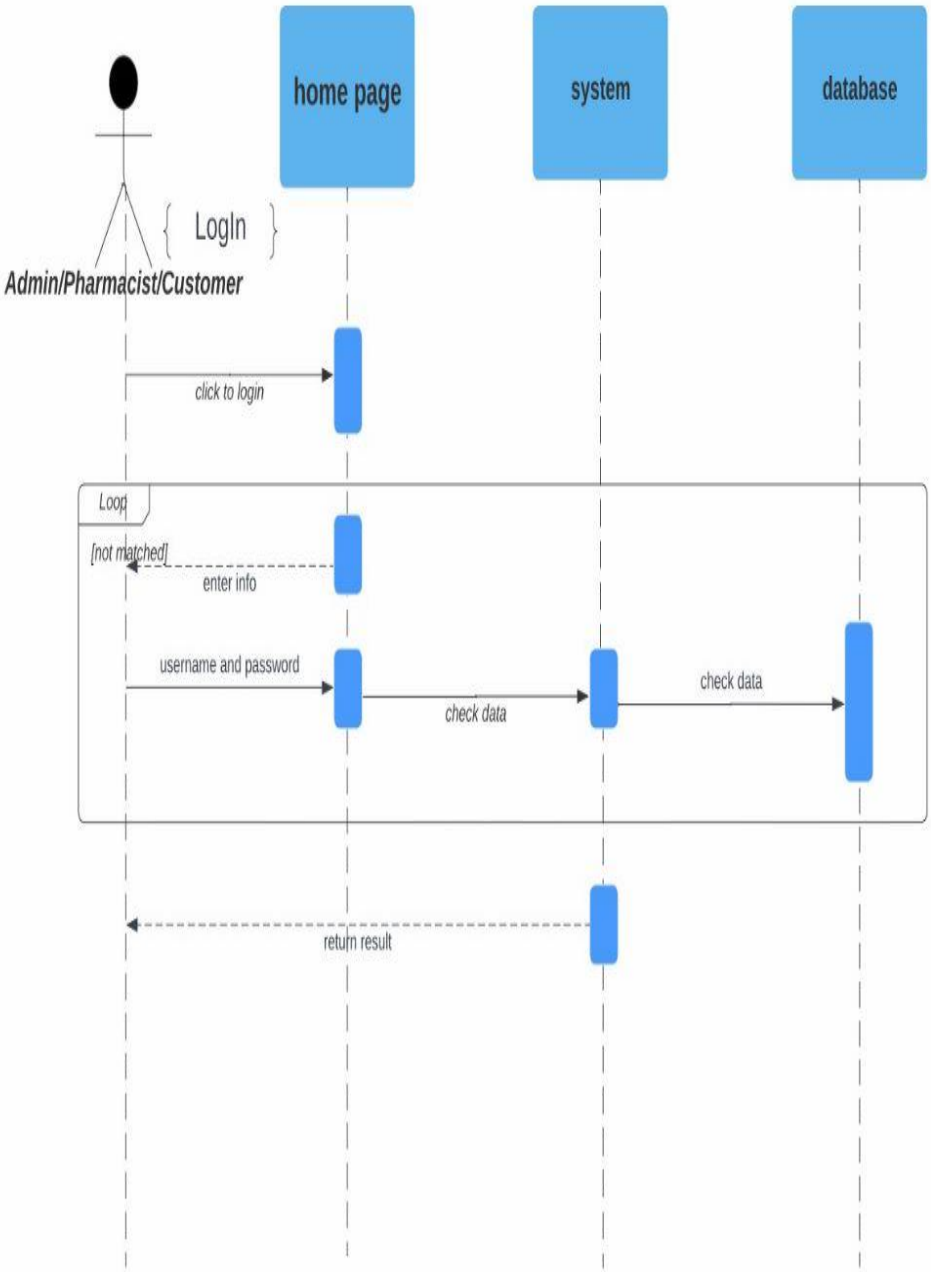

D2
Customer's Information
D1
Medicine info
D3
Psychedelic Drugs
check
3.2
Check Drugs Approval info
check
info
info
Customer
3.1
Check Psychedelic Drugs
Psychedelic drug
3.2
Pharmacist Approval
Check Customer's Paper
approved or not
Pharmacist
Drug approval paper
info
update approval status for customar's order
D4
Customer's orders
approve drug that not psychedeilc

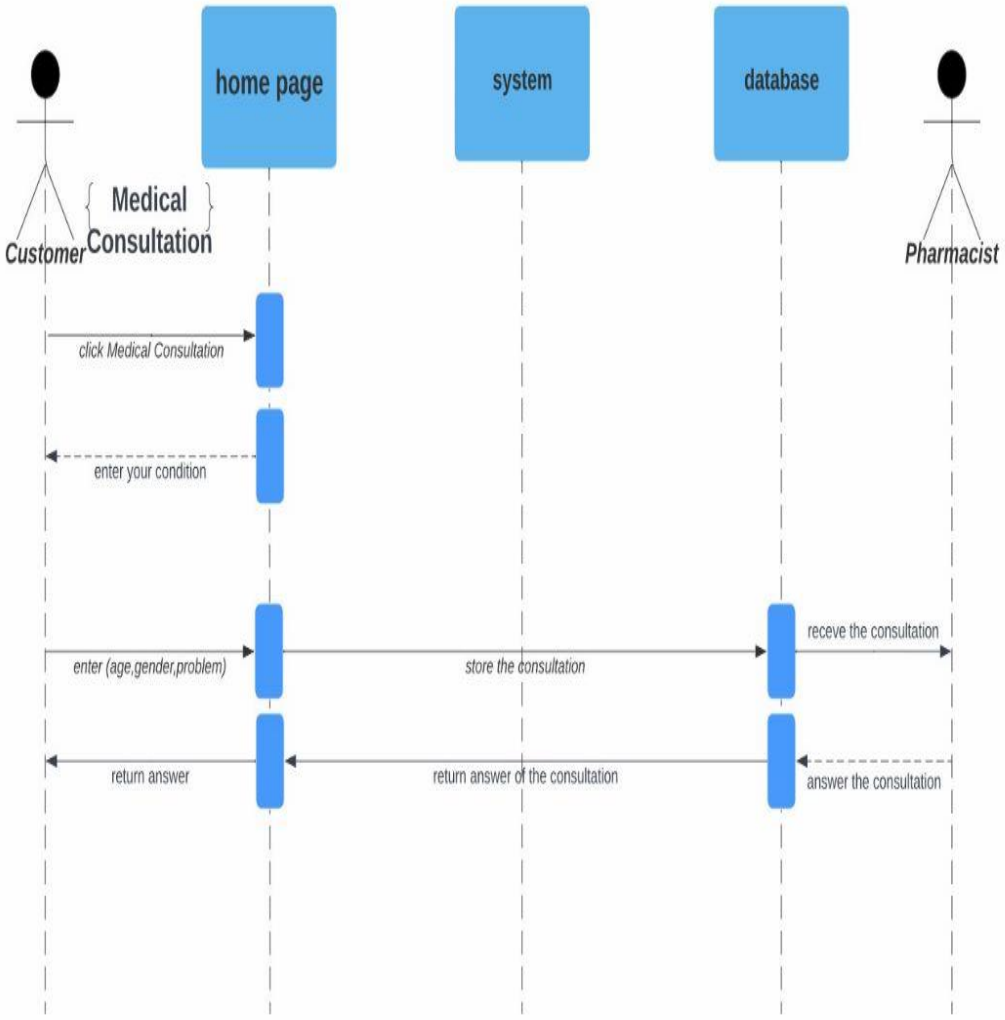

D1
Medicine info
update med list
D1
Customer's orders
updating delivery details
Check Drugs Approval
4.2.1
Process Order and updates
update stock
D3
Sales and stock
Customer
Orders
new temp info
4.1
Process Order and updates
Order Ok
order ok
4.2.2
Shipping Order and verification
Credit Check or CAD
Address Information
D2
Customer's Information
Shipping notice (generate report with Drugs)
5.1
Generating Reports
Admin
GENERATE REPORT about EVERYTHING

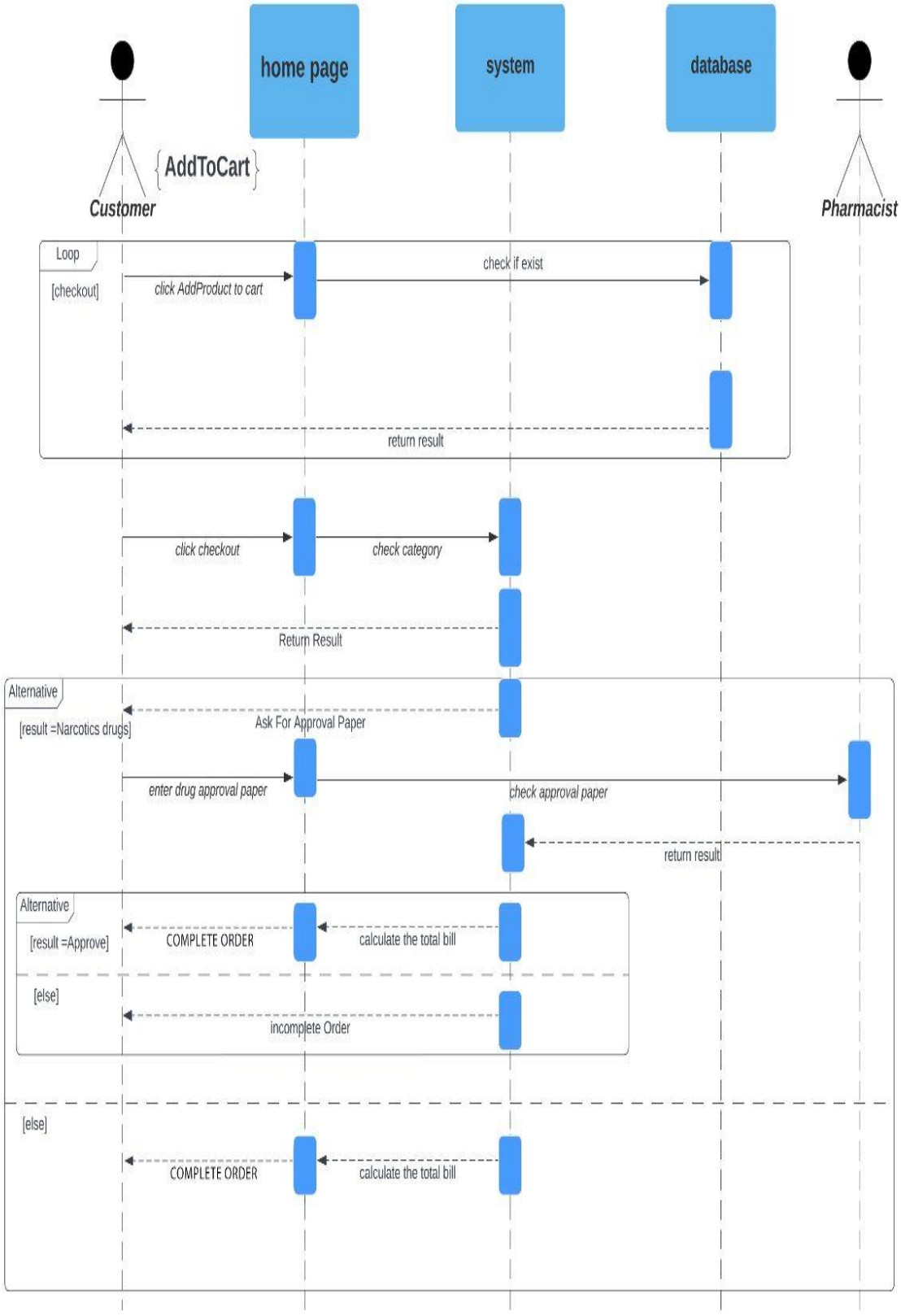

Customer
medical consult
6.2
Live chating
medical consult
Pharmacist
show Pharmacist's info
show Customer's info
6.1
View
User's basic
Information
Customer Info
Pharmacist Info
D1
Customer info
D3
Pharmacist
info

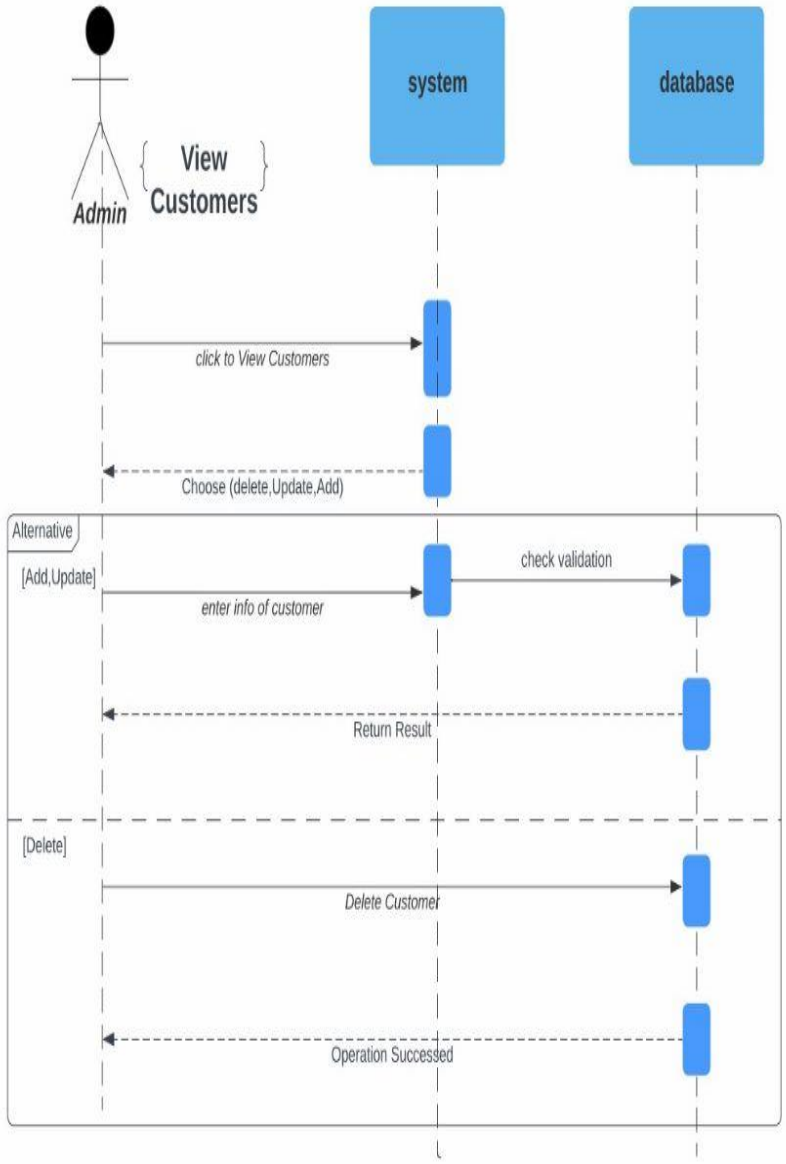
SEQ. DIAGRAM:

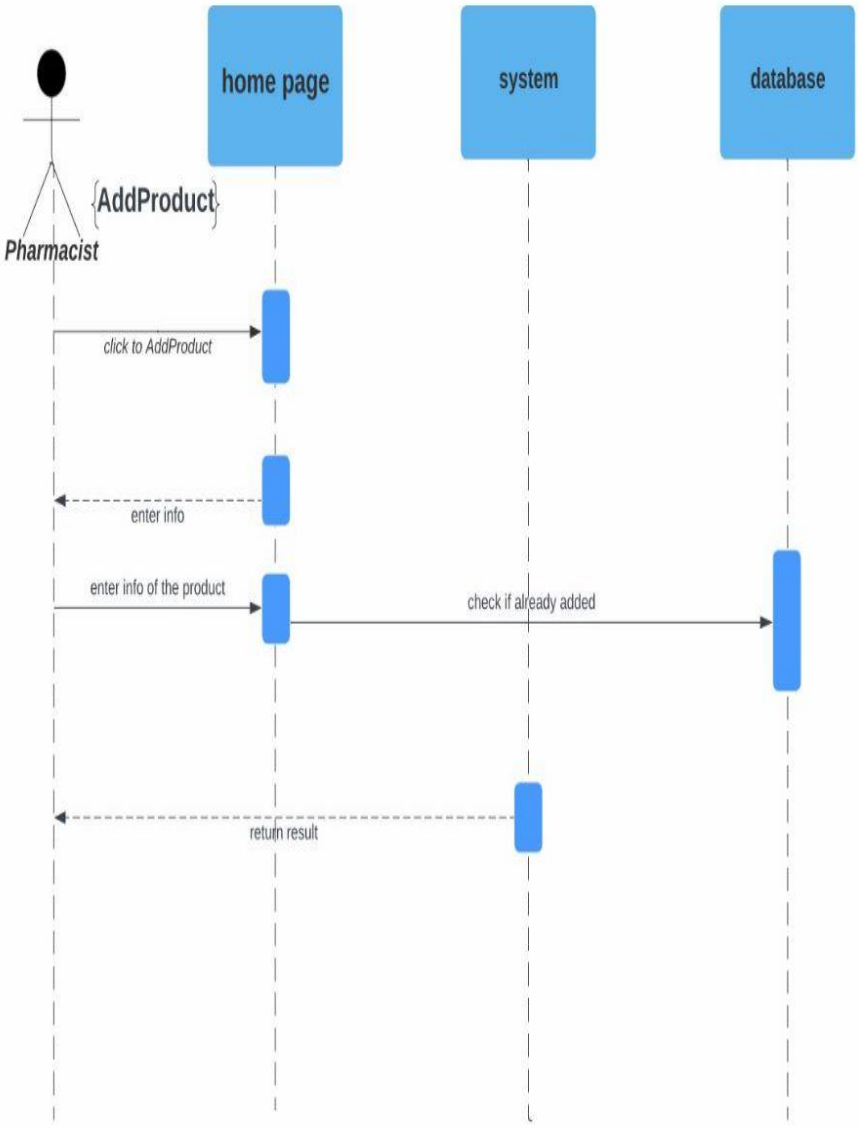

system
database
Admin
View
Pharmacists
click to View Pharmacists
Choose (delete,Update,Add)
Alternative
[Add,Update]
enter info of Pharmacist
check validation
Return Result
[Delete]
Delete Pharmacist
Operation Successed

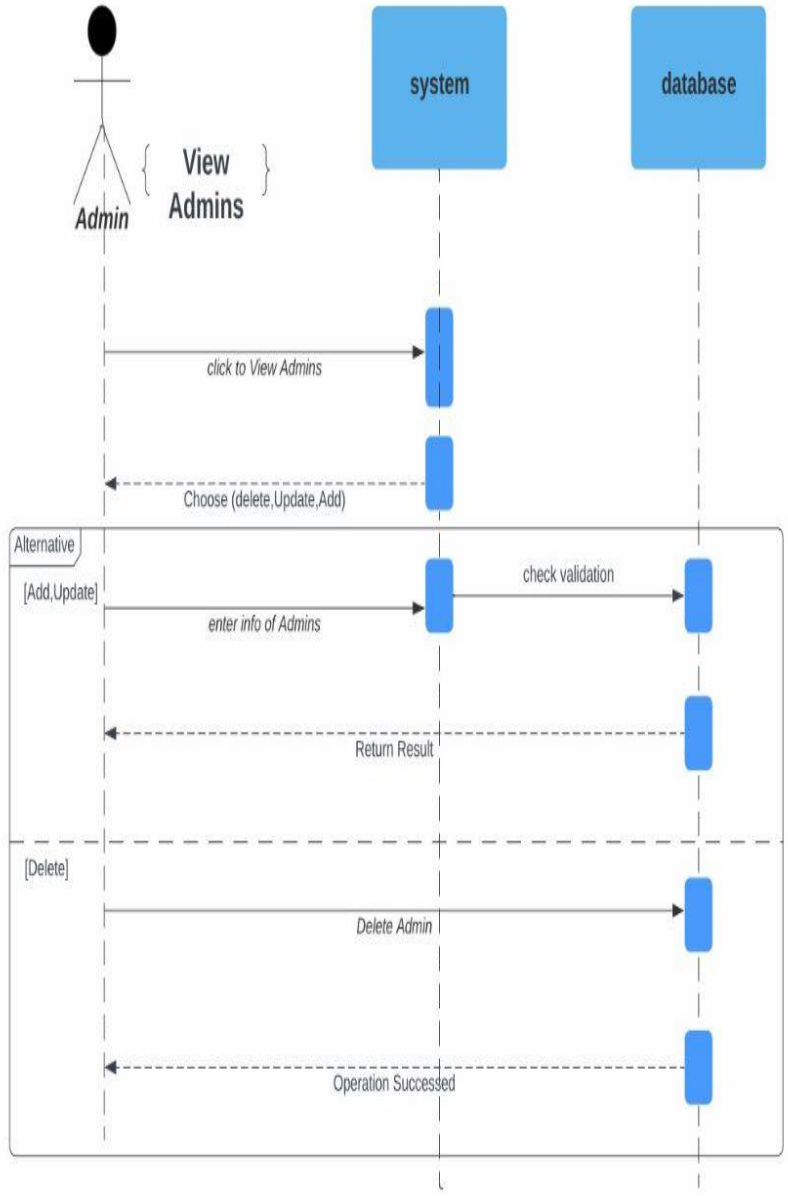

home page
system
database
LogIn
Admin/Pharmacist/Customer
click to login
Loop
[not matched]
enter info
username and password
check data
check data
return result


home page
system
database
Customer
Medical Consultation
Pharmacist
click Medical Consultation
enter your condition
enter (age,gender,problem)
store the consultation
receve the consultation
return answer
return answer of the consultation
answer the consultation

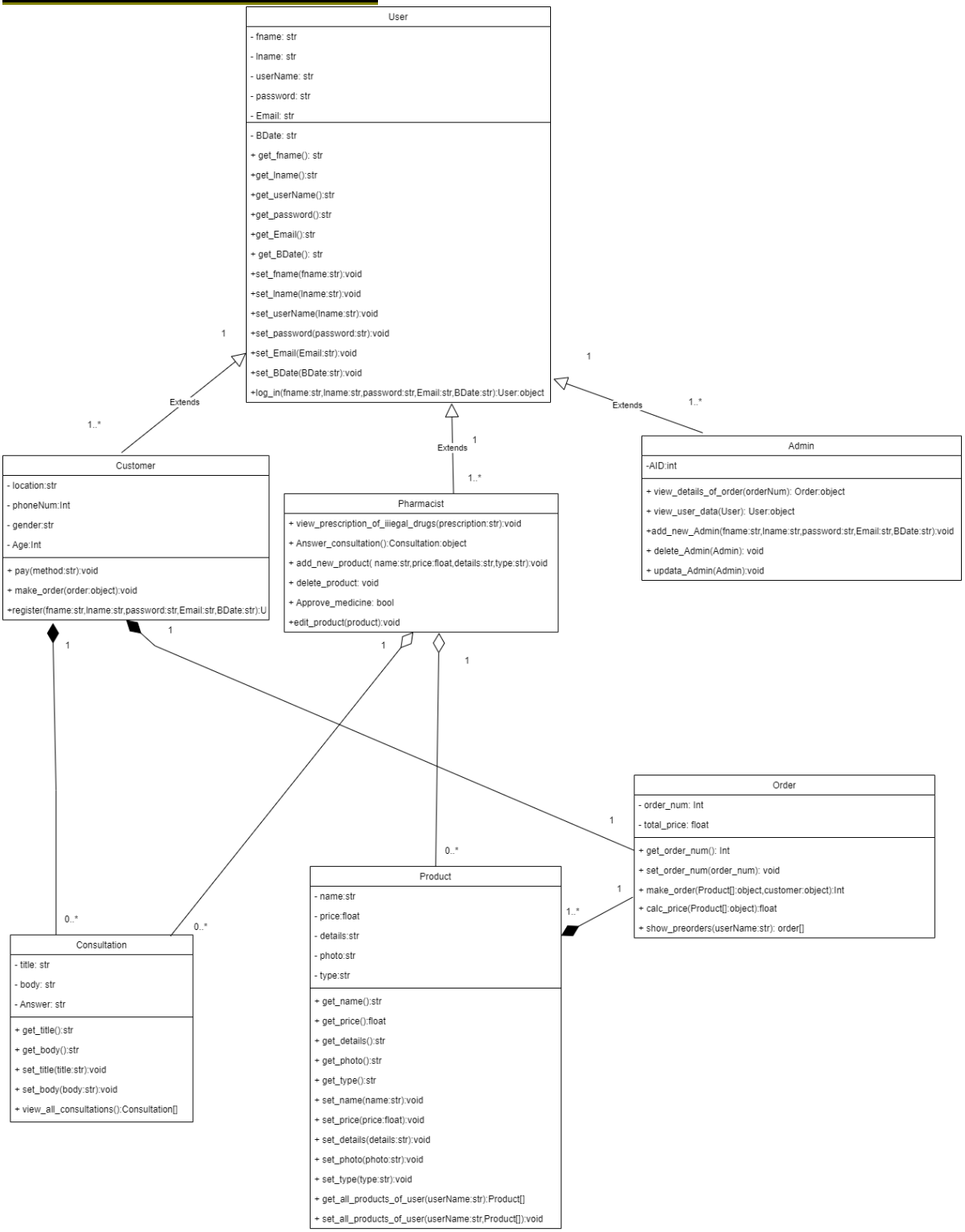

home page
system
database
AddToCart
Customer
Pharmacist
Loop
[checkout]
click AddProduct to cart
check if exist
return result
click checkout
check category
Return Result
Alternative
[result =Narcotics drugs]
Ask For Approval Paper
enter drug approval paper
check approval paper
return result
Alternative
[result =Approve]
COMPLETE ORDER
calculate the total bill
[else]
incomplete Order
[else]
COMPLETE ORDER
calculate the total bill


system
database
Admin
View
Customers
click to View Customers
Choose (delete,Update,Add)
Alternative
[Add,Update]
check validation
enter info of customer
Return Result
[Delete]
Delete Customer
Operation Successed


home page
system
database
AddProduct
Pharmacist
click to AddProduct
enter info
enter info of the product
check if already added
return result


system
database
Admin
View
Admins
click to View Admins
Choose (delete,Update,Add)
Alternative
[Add,Update]
enter info of Admins
check validation
Return Result
[Delete]
Delete Admin
Operation Successed

CLASS DIAGRAM:



THANK YOU