

1. INTRODUCTION TO PROJECT

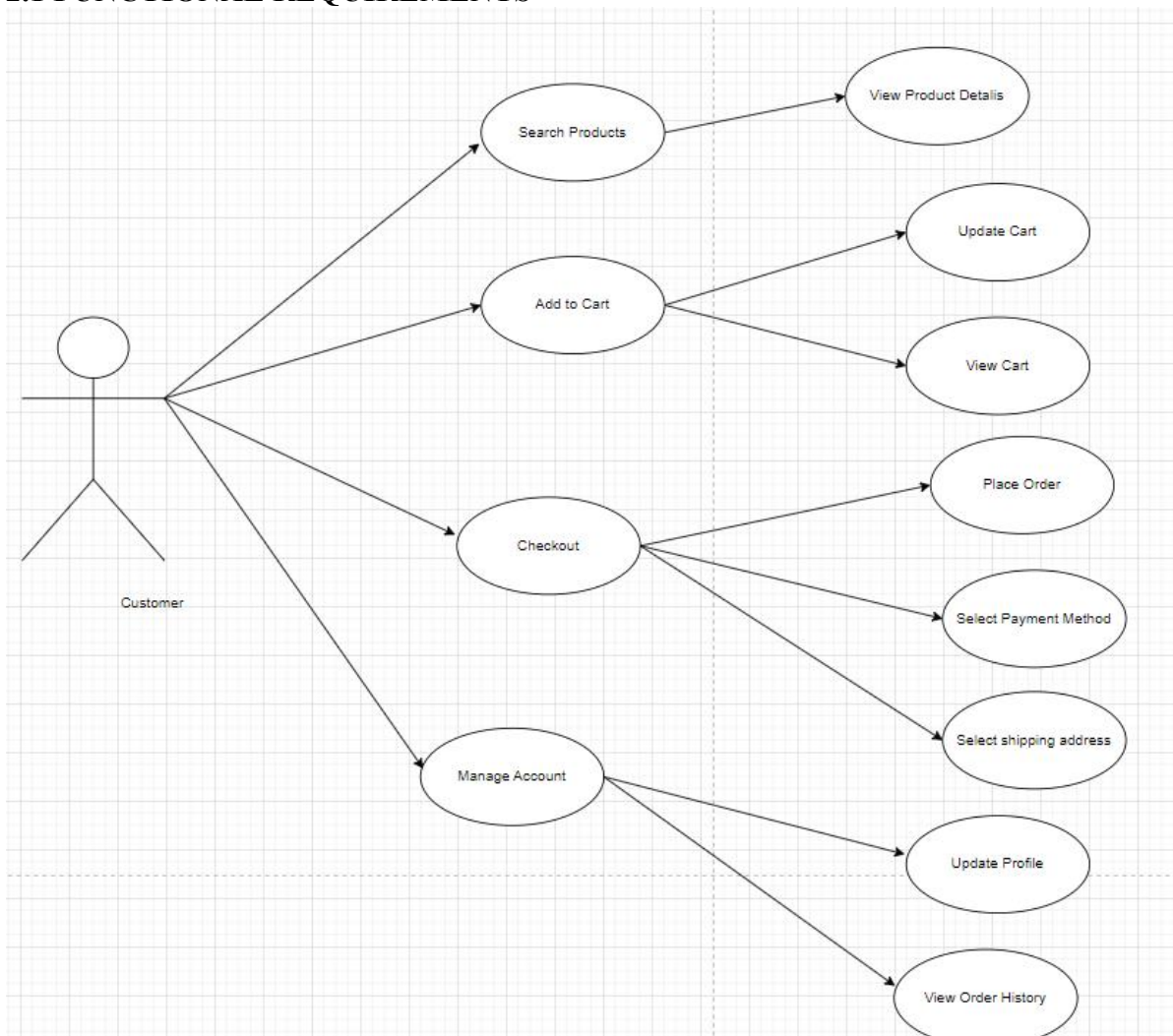
The **Online Medical Store Web Portal** is a cutting-edge platform that revolutionizes the way you purchase medicines and healthcare products online. Customers can effortlessly browse through a diverse range of product categories, search for specific items, and explore detailed product information, including names, prices, and availability, all without the need for logging in. This open access empowers users to fully experience the breadth of offerings available at their convenience.

To complete a purchase, users are required to log in, ensuring a secure and personalized shopping experience. Once logged in, customers can seamlessly add products to their cart, enter delivery details, and finalize their orders using the **Cash on Delivery (COD)** payment method. The system employs **JWT (JSON Web Token) authentication** to safeguard user accounts and transactions, providing a secure and trustworthy environment for online shopping.

Built with a powerful **Spring Boot** backend for robust business logic and API management, a sleek **React** frontend for an engaging user interface, and a reliable **MySQL** database for efficient data handling, the **Online Medical Store Web Portal** delivers a superior, secure, and intuitive shopping experience. This integrated approach ensures that both browsing and purchasing are handled with the utmost ease and security, making it a standout solution in the online medical retail space.

2.REQUIREMENTS

2.1 FUNCTIONAL REQUIREMENTS



2.1 User Account

Upon entering the **Online Medical Store Web Portal**, users are presented with three distinct options, depending on their status as either a guest or a registered user, and their intention to either browse or make a purchase. The terms 'registered user' and 'guest' are defined as follows:

A **registered user** is someone who has previously created an account on the system, providing a username and password. This account, referred to as

their ‘profile,’ allows the registered user to log in and access a range of features. Registered users can not only browse the available products but also add items to their cart, proceed with checkout, and place orders.

A **guest**, on the other hand, is a new user who has not yet registered. Guests can browse the product catalog and view detailed information, such as product descriptions, prices, and availability. However, guests are limited to viewing product information and cannot make purchases or place orders.

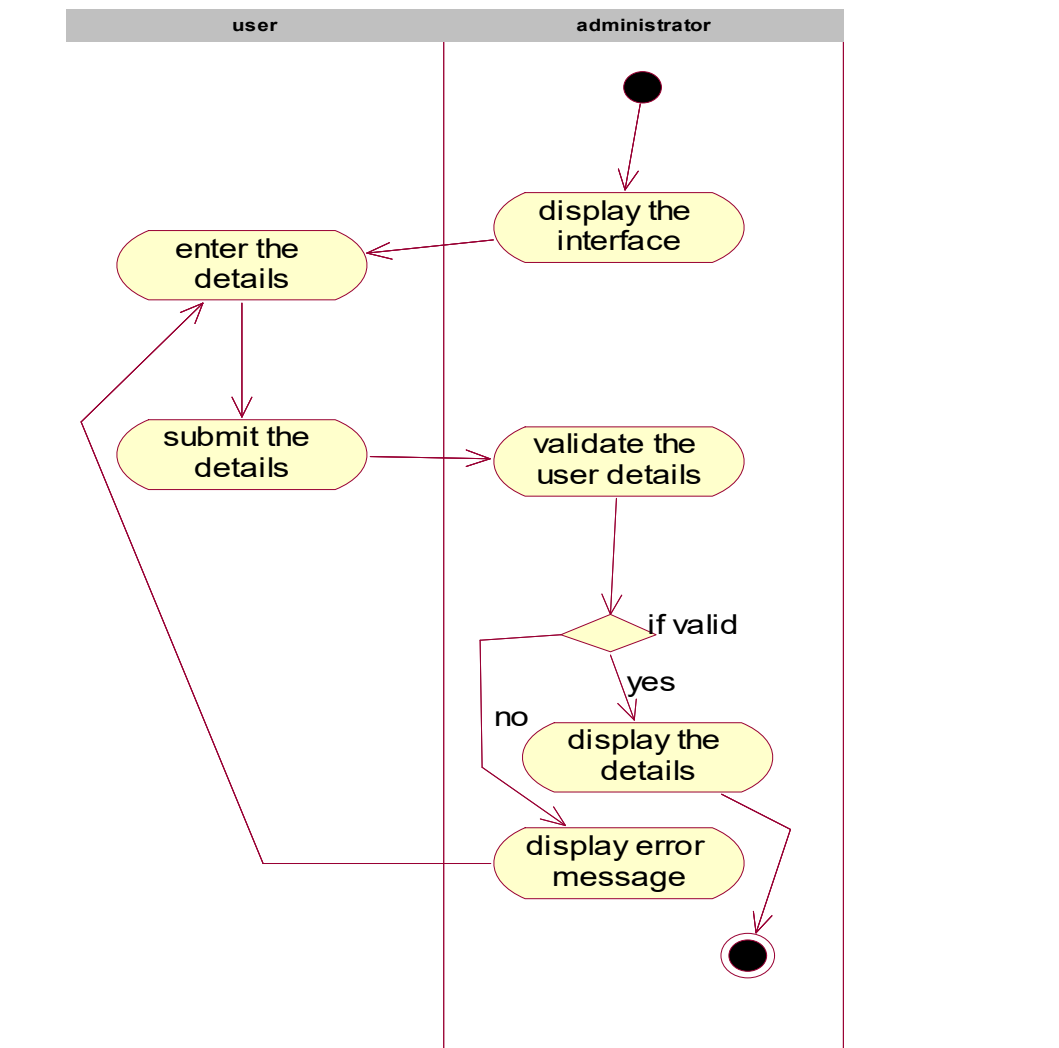
New users have the option to either:

1. **Register** by providing personal information to create a profile, thereby becoming a registered user.
2. **Browse as a guest** without creating an account, which allows them to explore product information but restricts them from making any purchases.

Even registered users can choose to browse as a guest if they wish to simply view product information without logging in. Throughout the shopping experience, users can exit the system at any time if they choose to discontinue their session.

2.2 Registration and creation of user profile

To complete any transactions on the **Online Medical Store Web Portal** beyond browsing product information, users are required to register. During the registration process, the system will prompt users to provide the following information: user ID, password, first name, last name .



2.3 Quick Search

The **Online Medical Store Web Portal** provides a Quick Search facility that allows users to browse and compare product availability and prices without logging in. This feature enables users to easily search for products across various categories and view their prices, facilitating informed decision-making.

Once logged in, either as a registered user or a guest, the system will prompt the user to enter specific details to proceed with their order. Users must provide the following information: origin city and destination city (for address purposes), product category, and any specific product names or criteria.

After submitting these details, the system will access the product database to check for availability. Users will be asked to specify additional parameters such as product quantity, delivery preferences, and any applicable discounts or promotions.

The system will validate the entered details to ensure there are no inconsistencies, such as ordering more products than are available in stock. In case of any errors, the system will notify the user and prevent the order from being processed.

Once the information is verified, the system will query the product database and display the results in a clear and organized manner, typically in a tabular format. This display will include details such as product name, price, available quantity, and any current promotions. Users will see an option to add products to their cart directly from this table.

For each product added to the cart, users will be required to provide personal information for shipping and processing. The system will then calculate the total price for the selected items, taking into account quantities and any applicable discounts.

2.4 Making Purchases/Order Confirmation

After a user has completed their search and checked the availability of products as described in Step 2.2, the system will prompt the user to proceed with their purchase.

If the user decides to buy products, the following steps apply: a) **If the user is a guest**, they will need to register to create a profile and log in to the system before proceeding with the purchase. b) **If the user is already a registered user** and is logged in, they can directly proceed with the purchase. If they were browsing as a guest, they must log in first.

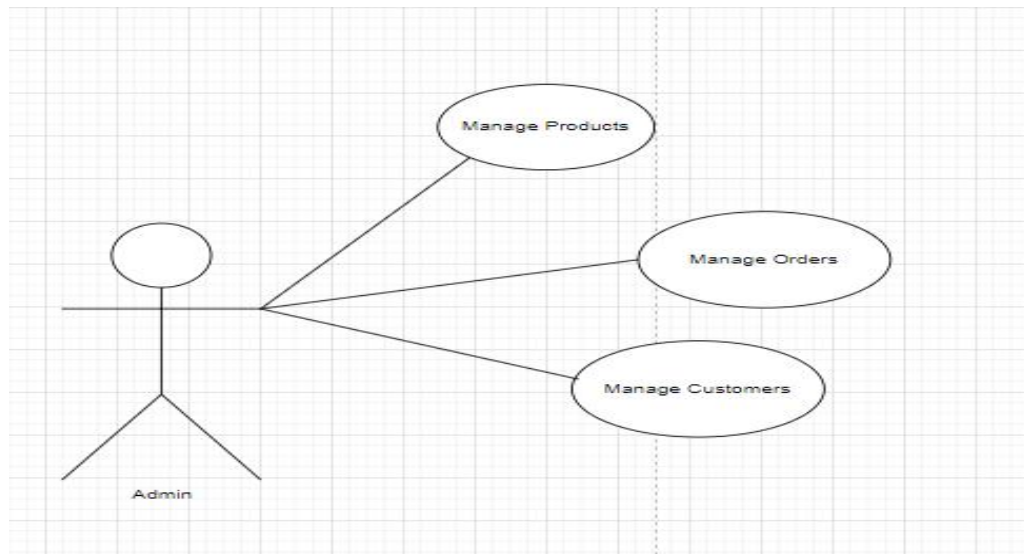
Once logged in, the system will display the total price for the selected products. Users will be required to enter their payment details, such as debit or credit card information. The system will process the payment and charge the amount to the provided payment method.

Upon successful payment, the system will update the inventory database to reflect the purchase and confirm the order. A confirmation email will be sent to the user with details of their order and estimated delivery time.

2.5 View Order History

Once logged in, users will be directed to their dashboard, where they can easily access a comprehensive overview of their previous orders. The dashboard will feature a section labeled "Order History," which allows users to view all details related to their past purchases.

By selecting this section, users will see a detailed list of their previous orders displayed in a tabular format. The information will include product names, quantities, prices, order dates, and any applicable status updates. This functionality ensures users can easily track and review their past transactions directly from their user dashboard.



2.6 Admin Functionality

Admins can securely log in to the control panel and perform the following tasks:

Manage Orders: View and update customer orders, including status changes and handling returns.

Manage Users: Access and update user profiles and handle user-related issues.

Manage Products: Add, update, or remove products, including managing details like names, prices, and stock levels.

2.2 NON FUNCTIONAL REQUIREMENTS

2.2.1 Interface

Go to Appendix B for user interfaces

2.2.2 Performance

- **Number of Concurrent Users:**

ARS shall be able to handle at least 1000 transactions/inquiries per second

- **Booking of Tickets:**

The system is susceptible to any temporary server failure since it uses the strong feature of Struts 2 and Hibernate. Hence the examination will be continued even if the sever gets disconnected in between the examination.

2.2.3 Constraint

ARS shall be able to handle at least 1000 transactions/inquiries persecond

2.2.4 Other Requirements:

- **Hardware Interfaces**

The SPMS is expected to function on Intel PIII 900 MHz Processor equivalent or above, 128 MB RAM, 20 GB HDD.

- **Software Interfaces**

The SPMS shall work on MS Windows operating systems family (MS Windows 98, MS Windows NT Workstation, MS Windows 2000, MS Windows XP). It configures to work with Oracle database. This System works on Apache Tomcat server. It uses browser IE 5.0 & above. It uses IIS 5.0 server.

3. DESIGN

3.1 Database Design

The following table structures depict the database design.

Table1: User:

Field	Type	Null	Key	Default	Extra
user_id	bigint	NO	PRI	NULL	auto_increment
email	varchar(255)	NO	UNI	NULL	
first_name	varchar(30)	YES		NULL	
last_name	varchar(30)	YES		NULL	
mobile_number	varchar(10)	YES		NULL	
password	varchar(255)	YES		NULL	

Table2: Address:

Field	Type	Null	Key	Default	Extra
address_id	bigint	NO	PRI	NULL	auto_increment
building_name	varchar(255)	YES		NULL	
city	varchar(255)	YES		NULL	
country	varchar(255)	YES		NULL	
pincode	varchar(255)	YES		NULL	
state	varchar(255)	YES		NULL	
street	varchar(255)	YES		NULL	

Table3: user_address:

Field	Type	Null	Key	Default	Extra
user_id	bigint	NO	MUL	NULL	
address_id	bigint	NO	MUL	NULL	

Table4: Roles:

Field	Type	Null	Key	Default	Extra
role_id	bigint	NO	PRI	NULL	
role_name	varchar(255)	YES		NULL	

Table5:User roles:

Field	Type	Null	Key	Default	Extra
role_id	bigint	NO	PRI	NULL	
role_name	varchar(255)	YES		NULL	

Table6:Products:

Field	Type	Null	Key	Default	Extra
product_id	bigint	NO	PRI	NULL	
description	varchar(255)	YES		NULL	
discount	double	NO		NULL	
image	varchar(255)	YES		NULL	
price	double	NO		NULL	
product_name	varchar(255)	YES		NULL	
quantity	int	YES		NULL	
special_price	double	NO		NULL	
category_id	bigint	YES	MUL	NULL	

Table7: Orders:

Field	Type	Null	Key	Default	Extra
order_id	bigint	NO	PRI	NULL	auto_increment
email	varchar(255)	NO		NULL	
order_date	date	YES		NULL	
order_status	varchar(255)	YES		NULL	
total_amount	double	YES		NULL	
payment_id	bigint	YES	MUL	NULL	

Table8:Order items:

Field	Type	Null	Key	Default	Extra
order_item_id	bigint	NO	PRI	NULL	auto_increment
discount	double	NO		NULL	
ordered_product_price	double	NO		NULL	
quantity	int	YES		NULL	
order_id	bigint	YES	MUL	NULL	
product_id	bigint	YES	MUL	NULL	

Table9:Categories:

Field	Type	Null	Key	Default	Extra
category_id	bigint	NO	PRI	NULL	auto_increment
category_name	varchar(255)	YES		NULL	

Table10:Payments:

Field	Type	Null	Key	Default	Extra
payment_id	bigint	NO	PRI	NULL	auto_increment
payment_method	varchar(255)	YES		NULL	

E-R Diagram,Dataflow diagram and Class Diagram:

Go to Appendix A

4. CODING STANDARDS IMPLEMENTED

Naming and Capitalization

Below summarizes the naming recommendations for identifiers in Pascal casing is used mainly (i.e. capitalize first letter of each word) with camel casing (capitalize each word except for the first one) being used in certain circumstances.

Identifier	Case	Examples	Additional Notes
Class	Pascal	Person, BankVault, SMSMessage, Dept	Class names should be based on "objects" or "real things" and should generally be nouns . No ‘_’ signs allowed. Do not use type prefixes like ‘C’ for class.
Method	Camel	getDetails, updateStore	Methods should use verbs or verb phrases.
Parameter	Camel	personName, bankCode	Use descriptive parameter names. Parameter names should be descriptive enough that the name of the parameter and its type can be used to determine its meaning in most scenarios.
Interface	Pascal with "I" prefix	Disposable	Do not use the ‘_’ sign
Property	Pascal	ForeColor, BackColor	Use a noun or noun phrase to name properties.
Associated private member variable	_camelCase	_foreColor, _backColor	Use underscore camel casing for the private member variables
Exception Class	Pascal with "Exception" suffix	WebException,	

Comments

- Comment each type, each non-public type member, and each region declaration.
- Use end-line comments only on variable declaration lines. End-line comments are comments that follow code on a single line.
- Separate comments from comment delimiters (apostrophe) or // with one space.
- Begin the comment text with an uppercase letter.
- End the comment with a period.
- Explain the code; do not repeat it.

5. TEST REPORT

Another group called Linux did the testing and the report of the testing is given hereunder.

GENERAL TESTING:

SR-NO	TEST CASE	EXPECTED RESULT	ACTUAL RESULT	ERROR MESSAGE
1	Register Page	Redirected to Next page	OK	Nothing
2	Login Page	Pop-up will come	Ok	Please enter username and password again .
3	Reset login	Only users password will be reseted	Ok	Nothing
4	Quick search	Gives all flight details	Ok	Nothing
5	Ordering product	All the fields should be filled for submission	Ok	Nothing
6	Checking login or not	User is logged in or not	Ok	Nothing
7	Add address details for orders	Add informations according to no of seats allocated	Ok	Nothing
8	Go to user page	Set added information about person	Ok	Nothing
9	Add information in orders table	Save this all data into booking table	Ok	Nothing
10	Order detail	On back it should be reverted to previous page	Ok	Nothing
11	View transaction done	It shows you all transactions done previously	Ok	Nothing
12	Logout	It will logout from user profile.	Ok	Nothing
	STATIC TESTING			
SR-NO	Deviation	Program		
1	Commenting not followed	All Web Application		

6. PROJECT MANAGEMENT RELATED STATISTICS

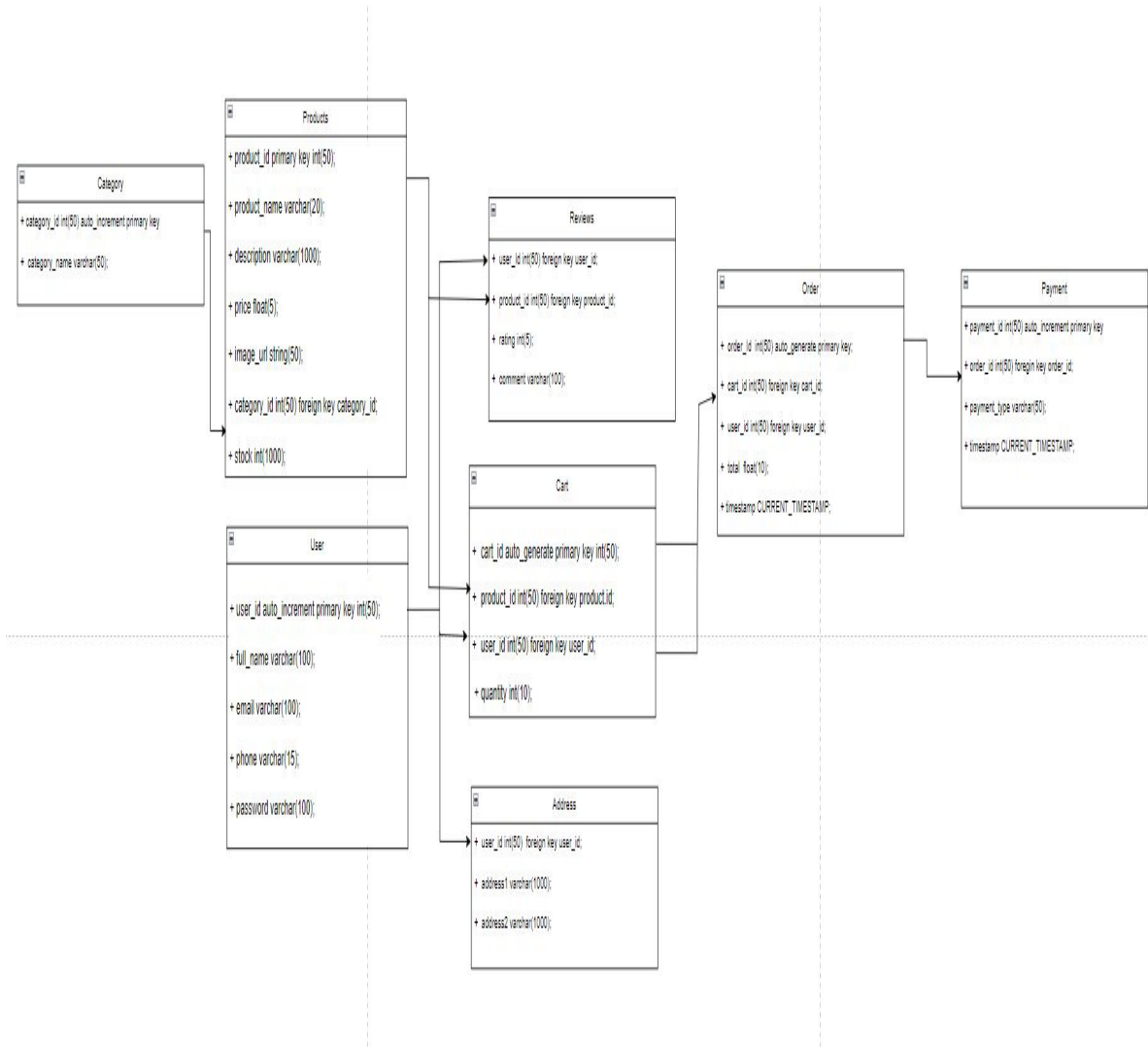
DATE	WORK PERFORMED	SLC Phase	Additional Notes
15-Jul-24	Project Allotment and User Requirements Gathering	Feasibility Study	Met client Mr. Nitinkudale (CEO, SIIT Pune) to understand requirements
18-Jul-24	Initial SRS Document Validation and Team Structure Decided	Requirement Analysis (Elicitation)	Presented initial SRS to client for better understanding
22-Jul-24	Designing use-cases, Class Diagram, Collaboration Diagram, E-R Diagram, User Interfaces	Requirement Analysis & Design Phase	Completed database design

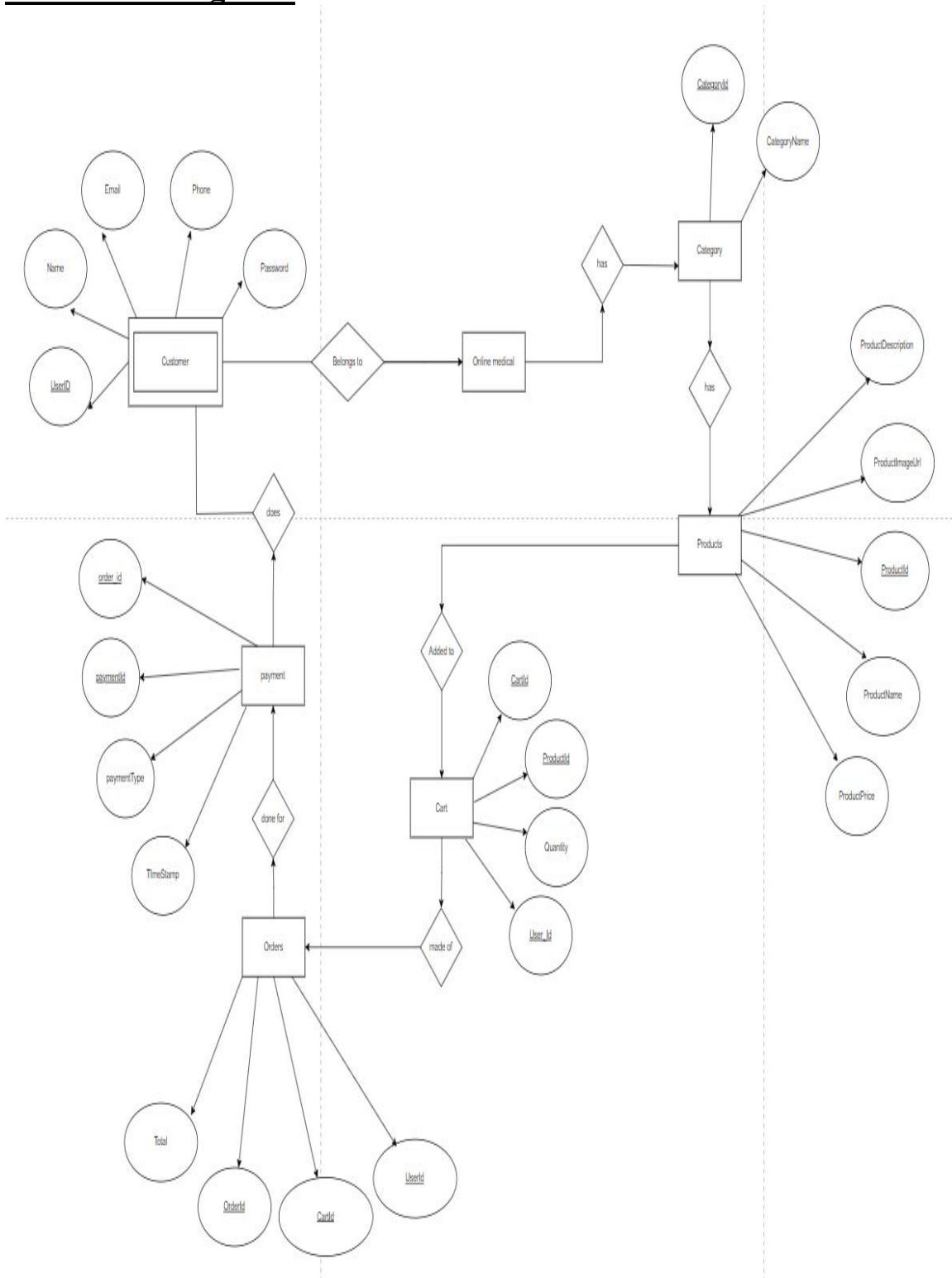
26-Jul-24	Business Logic Component design Started	Design Phase	-
30-Jul-24	Coding Phase Started	Coding Phase	70% of Class Library implemented
01-Aug-24	Implementation of Web Application and Window Application Started	Coding Phase	Class Library Development ongoing
03-Aug-24	Off	Off	Off
06-Aug-24	Implementation of Web Application and Window Application Continued	Coding Phase and Unit Testing	Modified Class Library as per need
08-Aug-24	Implementation of Web Application and Window Application Continued	Coding Phase and Unit Testing	-

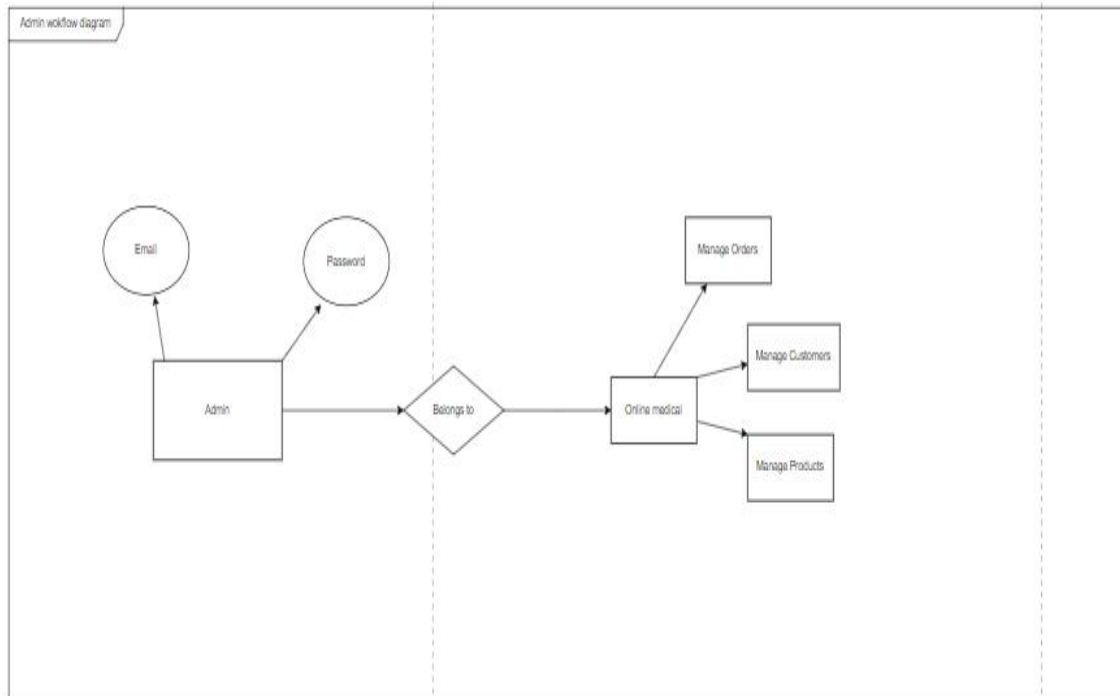
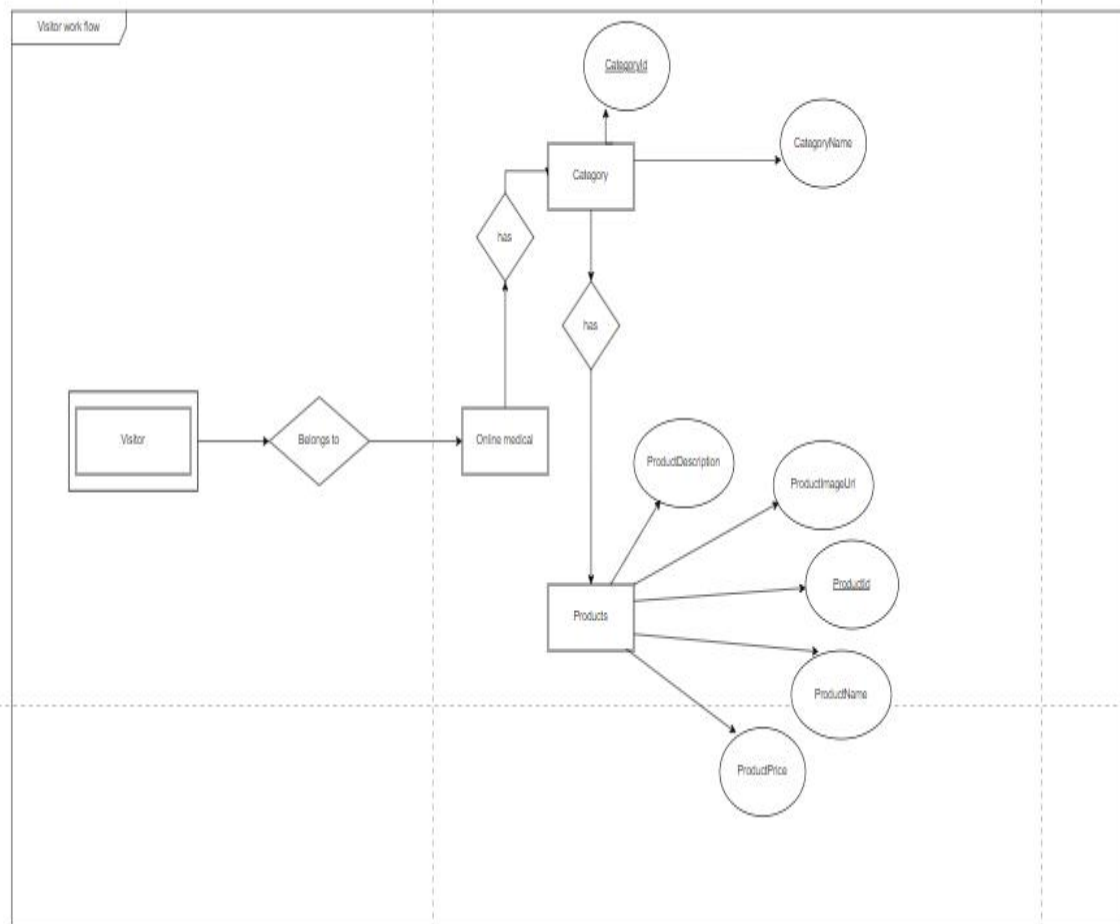
10-Aug-24	After Ensuring Proper Functioning, Required Validations Implemented	Coding Phase and Unit Testing	Module Integration done by Project Manager
12-Aug-24	The Project was Tested by Team Leaders and Project Manager	Testing Phase (Module Testing)	-
14-Aug-24	The Project was Submitted to Other Project Leader for Testing	Testing Phase (Acceptance Testing)	Taken up by team for testing
15-Aug-24	The Errors Found were Removed	Debugging	Project complete for submission
16-Aug-24	Final Submission of Project	-	-

Appendix A

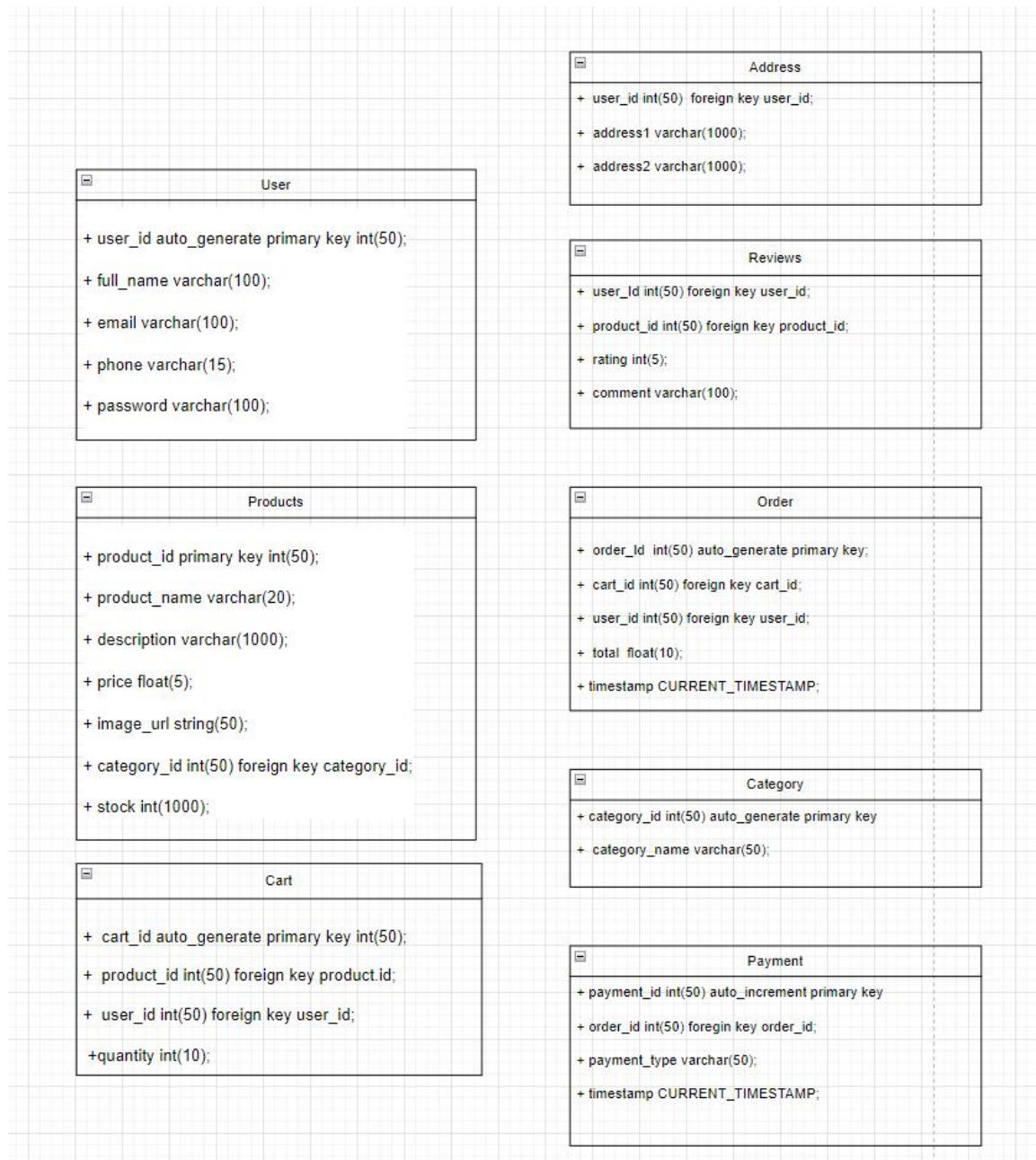
Entity Relationship Diagram



Data Flow Diagram:




Class Diagram





Appendix B


Homepage:


[Home](#) [All Product](#) [Signup](#) [Login](#) [Cart\(0\)](#)






















Drugs Injection Cosmetic Homeo Pain-relief Devices Vitamins First-Aid

Bestselling Products




Aspirin
₹29.99
Only 98 left
Quantity:

[Add To Cart](#)




Syringe
₹15.99
Only 48 left
Quantity:

[Add To Cart](#)




Sun Block
₹19.99
Only 72 left
Quantity:

[Add To Cart](#)





Homeo Remedy
₹25.99
Only 60 left
Quantity:


[Add To Cart](#)



ELIEF
Diclofenac Potassium B.P.
& Paracetamol I.P. Tablets







LoginPopup:

Login

Login

Don't have an account? [Sign up](#)

User Registration:

Signup


Signup

Have an account? [Login](#)

User-DashBoard



Medico

HomeAll ProductUserLogoutCart(0)



Name: Shashwat sinha
Email: shashwat@gmail.com
Role: USER

Order Details





Order Id #2 Total Amount ₹ 25.99	Date 2024-08-16 Order Status Order Accepted		Immune Booster x 1 ₹ 25.99
Order Id #2 Total Amount ₹ 81.98	Date 2024-08-16 Order Status Order Accepted		Anti-Aging Serum x 2 ₹ 40.99

Cart

Medico

HomeAll ProductUserLogoutCart(2)

Shopping Cart

	Body Lotion ₹19.99	- <input type="text" value="1"/> +	 Remove
	Hair Conditioner ₹25.99	- <input type="text" value="1"/> +	 Remove

Price Details

Price (2 items)	₹45.98
Delivery Charges	Free
Total Amount	₹45.98

Buy now

Quick Search:

Medico

a

[Home](#)
[All Product](#)
[User](#)
[Logout](#)
[Cart\(2\)](#)

YO

24/7

ONLINE SHOP

Deliver anytime!

Aspirin

Pain Relief Tablet

Daily Multivitamin

First Aid Kit

Antibiotic

Headache Relief

Arthritis Relief

Vaccination Syringe

Drugs

Injection

Cosmetic

Homeo

Pain-relief

Devices

Vitamins

First-Aid

Bestselling Products



Category products:

Medico

Search here

[Home](#)
[All Product](#)
[User](#)
[Logout](#)
[Cart\(2\)](#)

COSMETIC

Sun Block

₹19.99

Only 72 left

Quantity:

1

Add to Cart

Facial Cream

₹35.99

Only 100 left

Quantity:

1

Add to Cart

Anti-Aging Serum

₹40.99

Only 88 left

Quantity:

1

Add to Cart

Hair Conditioner

₹25.99

Body Lotion


₹19.99

Face Mist

₹22.99

Admin dashboard products

Admin Dashboard



Name: Kunal Borse
Email: kunalborse242@gmail.com
Role: ADMIN

[Go Home](#)

Total Products (16) Total Orders (4) Total Users (3)


All Products

[Add Product](#)

S.No.	Image	Title	Price	Quantity	Actions
1		Aspirin	₹20.99	98	Edit Delete
2		Syringe	₹15.99	48	Edit Delete
3		Sun Block	₹10.99	72	Edit Delete
4		Honey Remedies	₹25.99	60	Edit Delete
5		Pain Relief Tablet	₹9.99	200	Edit Delete
6		Microscope	₹150.00	10	Edit Delete

Admin Dashboard orders

Admin Dashboard



Name: Kunal Borse
Email: kunalborse242@gmail.com
Role: ADMIN

[Go Home](#)

Total Products (16) Total Orders (4) Total Users (3)

All Orders

S.No.	Order Id	Email	Order Date	Image	Title	Price	Quantity	Total Price	Action
1	3	shashvat@gmail.com	8/16/2024		Syringe	₹15.99	1	₹15.99	Delete
2	3	shashvat@gmail.com	8/16/2024		Aspirin	₹20.99	1	₹20.99	Delete
3	1	shardulkeer@gmail.com	8/16/2024		Aspirin	₹20.99	1	₹20.99	Delete
4	1	shardulkeer@gmail.com	8/16/2024		Sun Block	₹19.99	2	₹39.98	Delete
5	2	shashvat@gmail.com	8/16/2024		Immune Booster	₹25.99	1	₹25.99	Delete
6	2	shashvat@gmail.com	8/16/2024		Anti-Aging Serum	₹40.99	2	₹81.98	Delete

Admin Dashboard

Users

Admin Dashboard



Name: Kunal Borse
Email: kunalborse242@gmail.com
Role: ADMIN

[Go Home](#)

Total Products (16) Total Orders (4) Total Users (3)

All Users

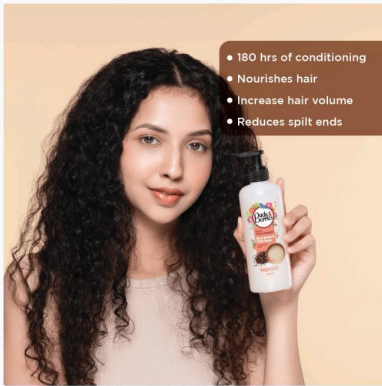
S.No.	Name	Email	User ID	Role
1	Kunal Borse	kunalborse242@gmail.com	1	ADMIN
2	Shardul Keer	shardulkeer@gmail.com	2	USER
3	Shashwat sinha	shashwat@gmail.com	3	USER

ProductInfoPage:

Medico

Search here

Home All Product User Logout Cart(0)



Hair Conditioner

☆☆☆☆

₹ 25.99

Description:
Nourishing hair conditioner

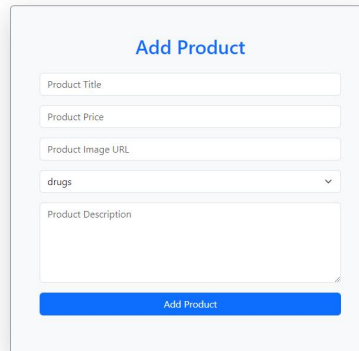
Add to cart

Medico

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f t i y

Admin addProductPage:

A screenshot of a web form titled "Add Product". The form is light gray with a blue header. It contains five input fields: "Product Title", "Product Price", "Product Image URL", a dropdown menu with "drugs" selected, and a "Product Description" text area. A blue "Add Product" button is at the bottom.

Add Product

Product Title

Product Price

Product Image URL

drugs

Product Description

Add Product

7.REFERENCES:

<http://www.google.com>

<https://www.1mg.com/>

<http://www.webdevelopersjournal.com/>

<https://www.webmd.com/>

<http://www.wikipedia.org>

<https://pharmeasy.in/>

<https://medlineplus.gov/>