

Project Team No:	<b>01</b>
Project Title:	<b>E - MEDICARE</b>

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# **1. INTRODUCTION**

## **1.1 ABSTRACT:**

Increasing advancement in technology can turn up for the good of the society and here we are planning to bring change in health care and services. The ultimate objective here is to design a E-Medicare Web Application that can perform medicine delivery with a much better secure system. E-Medicare Health management system is based on the web application which is used by the customer's to buy the online medicines to avoid the transport . E-Health Care System project deals with Corporate Medicare Management. This project is very helpful to both Medicare staff as well as to the public. It is having mainly Administration and Client modules.

## **1.2 INTRODUCTION:**

In Present scenario computer is an essential part for human life. It provides better Facilities for storage and retrieval of information related to different areas of application. The medical stores are looking for the services that are accurate and reliable for providing services to the customers. The detail of medicine which are available in medical store is easily managed and organized by using this system. The database for the customers can be managed by using this project.

The project E-Medicare includes registration of user/customer, storing their details into the system, and also computerized invoice. The software has the facility to give unique ID for every user/customer and stores the details of every customer automatically. User can search availability of product.

The E-Medicare can be entered using a User Id and Password. It is accessible either by an administrator the data can be retrieved easily. In this Application we are going to provide online Medicine to the customer's . Customer's can find various types of medicine's in this application the customer can buy the medicine at reasonable price. The User Interface is very user-friendly. The data are well protected for personal use and makes the data processing very fast.

## **1.3 Overview:**

### **1.3.1 Objective:**

The main objective of the project on E- Medicare Application is to manage the detail's of the customer, medicine company, medicine stock, order . It manages all the information about customers, payment, order, customer . The project is totally built at administrative end and thus only the administrator is guaranteed the access. The Purpose of the project is to build an application program to reduce the manual work or managing the customer, medicine company , payment, medicine. It tracks all the details about the medicine, medicine stock, order.

### **1.3.2 Scope of the Project:-**

- a. To provide the better stock maintenance of the medicines.
- b. To generate sales/purchase report.
- c. To manage the transaction such as product sales and other expenses.
- d. Least amount of medicines allows alerting at the login.
- e. Life of (expiry date) medicines allows informing before two months.
- f. Keep track status of its medicine details.

All this work is done manually by the admin and other Medicare staff. Admin have to remember various medicines available for customers.

## **2. SYSTEM OVERVIEW**

### **2.1 List of Modules for E- Medicare Management System :**

- **ADMIN MODULE:**

In this module we are going to add the products, delete the products, edit the products. Admin module allows system administrator to set up back-end of the system and perform basic system configuration, mainly definition of predefined drop-down fields, definition of classes time schedule, etc

- **LOGIN MODULE:**

The Login Module is a portal module that allows users to type a user name and password to log in. You can add this module on any module tab to allow users to log in to the system.

- **USER MODULE:**

The user module allows users to register, log in, and log out. Users benefit from being able to sign on because this associates content they create with their account and allows various permissions to be set for their roles.

- **SEARCH MODULE:**

Search modules provide functionality related to indexing and searching content on your site. The search module lets users search for specific product on site. You can search both for users and for particular words.

- **MEDICINE STOCK:**

Medicine stock module is used for managing the medicine stock information.

- **ORDER MODULE:**

This process is called order management, which is basically keeping track of customers' orders and handling the steps involved with fulfilling them. The process generally consists of accepting the order, picking, packing, and shipping the items mentioned in the order.

- **PAYMENT MODULE:**

It is used for managing the payment details. Payment module is group of payment features and setting, often made available by third party.

These modules must be present in creating the E-Medicare Management to satisfy the needs in managing E-Medicare Web Application . Through this, the management and monitoring of product's would be much easier for both admin and users.

## **2.2 REQUIREMENT SPECIFICATION**

### **2.1 INTRODUCTION:**

To be used efficiently, all computer software needs certain hardware components or the other software resources to be present on a computer. These pre-requisites are known as (computer) system requirements and are often used as a guideline as opposed to an absolute rule. Most software defines two sets of system requirements: minimum and recommended. With increasing demand for higher processing power and resources in newer versions of software, system requirements tend to increase over time. Industry analysts suggest that this trend plays a bigger part in driving upgrades to existing computer systems than technological advancements.

### **2.2 HARDWARE REQUIREMENTS:**

The most common set of requirements defined by any operating system or software application is the physical computer resources, also known as hardware. A hardware requirements list is often accompanied by a hardware compatibility list , especially in case of operating systems. An hardware compatibility lists tested, compatibility and sometimes incompatible hardware devices for a particular operating system or application. The following sub-sections discuss the various aspects of hardware requirements.

## **HARDWARE REQUIREMENTS FOR PRESENT PROJECT:**

PROCESSOR : Intel dual Core i3  
RAM : 1 GB  
HARD DISK : 80 GB

### **2..3 SOFTWARE REQUIREMENTS:**

Software Requirements deal with defining software resource requirements and pre-requisites that need to be installed on a computer to provide optimal functioning of an application. These requirements or pre-requisites are generally not included in the software installation package and need to be installed separately before the software is installed.

## **SOFTWARE REQUIREMENTS FOR PRESENT PROJECT:**

The system will be developed on any Windows OS machine using J2EE, Hibernate and Spring.

- Intel hardware machine (PC P4-2.26 GHz, 512 MB RAM, 40 GB HDD)
- Server – Apache Tomcat 8 or higher Database – Oracle 11g or higher
- Eclipse IDE or Spring Tool Suite

## **❖ AUTHENTICATION AND AUTHORIZATION:**

### **Authentication:**

Every time we signed up, we likely been asked to create a username and password. Because this is such a common process now, it's become almost second-nature for some users to set up their accounts without much thought about the credentials they choose. And unfortunately, there's a lot at stake if a user chooses weak credentials.

## **Authentication for User name and password:**

When a user first signs up for website, they're asked to choose a username and password to identify themselves. In an ideal world, the user would always pick a strong and unique password so that it's harder for an attacker to guess.

### **Password Rules:**

When it comes to password safety, the longer and more complex the password is, the better. We think it's good practice to enforce certain minimum requirements when asking users to create a new password. Of course, you have to find a balance between these requirements and user experience. If you make the sign-up process too tedious, you could be driving users away. To enforce password strength, you should define a set of rules that a password must satisfy and then enforce these with form validation.

Example password strength rules:

- ☐ Minimum of 8 characters
- ☐ At least one uppercase letter
- ☐ At least one number
- ☐ At least one special character

## **2..1 Authorization:**

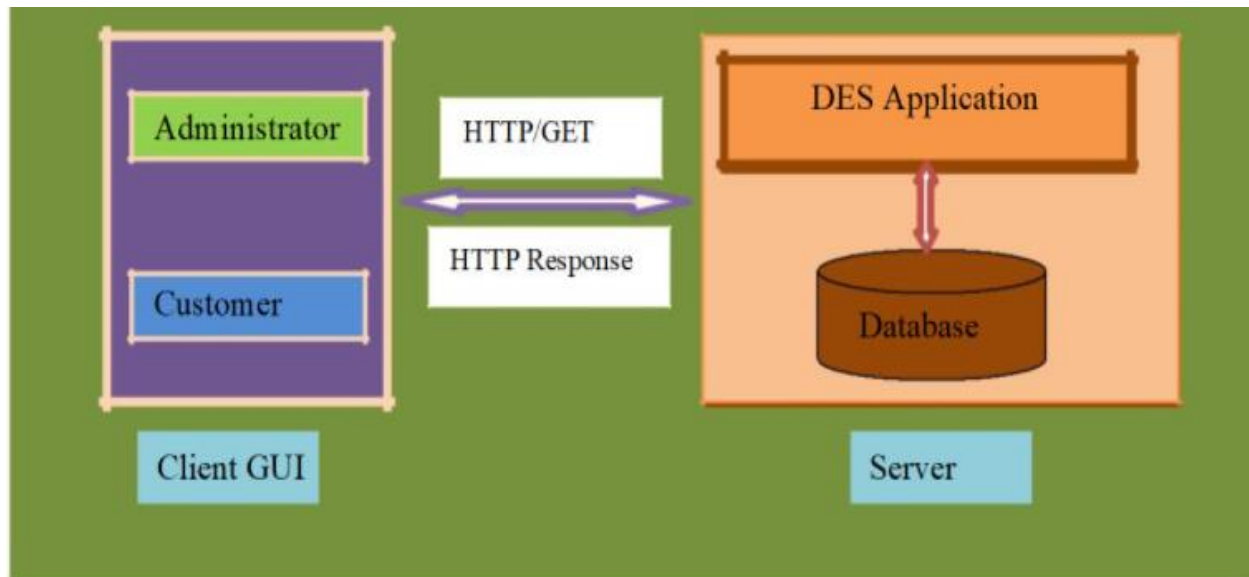
For Authorization, think of owning a E-Medicare page. When admin log in, since he own the page. Hence, admin can post content on page, modify and add product content from admin and others of your page that are not administrators. User can't modify or add product in the user page , user can only add the products to the cart and buy.



## ❖ **FUNTIONAL FLOW:**

The functional flow of the messages across different application components is shown below.

Ex. - Web Application.



## **FUNCTIONAL SPECIFICATIONS:**

### ❖ **Sub-system Details:**

The Digital Emporium E-Store System is defined, wherein all users need to login successfully before performing any of their respective operations.

Find below (section 2.5.1 & 3.2) tables that provides functionality descriptions for each type of user / sub-system. Against each requirement, indicative data is listed in column 'Data to include'. Further, suggested to add/modify more details wherever required with an approval from customer.

## 2..1 Administrator:

The administrator as a user is defined to perform below listed operations after successful login.

ID	Objects	Operations	Data to Include	Remarks
AD-001 To AD-004	Product	Add ,View, Delete , Modify	Product Id, Product Name, Product Price	
AD-005 To AD-0010	Customer	View	username, email, phone number, State, city, pin	
AD – 0011 To AD - 0013	Order and Purchase	View	Cart Id , User Id, Product Id, Product Price, Quantity, Price, Status (Pending or Placed)	

## 2..2 Customer:

The customer as a user is defined to perform below listed operations after successful login.

ID	Objects	Operations	Data to Include	Remarks
US-001	User	Register	UserId, Username, Password, Email, Phone Number, State, City, Pin etc.	
US-002	Product	Add to Cart. Delete from Cart. Delete all products from cart.	Product Id, Product Name, Price, Quantity, Status	
US-003	Check out	Add User Details and Price	CartId, UserId and Total Price	

## 2.6 Login | Logout:

- Web Application - [J2EE, Hibernate, Spring]
- Go to Registration screen when you click on Register link.
- Go to Success screen when you login successfully after entering valid username & password fetched from the database.
- Redirect back to same login screen if username & password are not matching.
- Implement Session tracking for all logged in users before allowing access to application features. Anonymous users should be checked, unless explicitly mentioned.

## 2.7 Data Organization:

This section explains the data storage requirements of the Product Order Entry System and indicative data description along with suggested table (database) structure. The following section explains few of the tables (fields) with description. However, in similar approach need to be considered for all other tables.

### 2.7.1 Table: User\_Registration\_Details:

The user specific details such as username, email, phone etc. Authentication, and authorization / privileges should be kept in one or more tables, as necessary and applicable.

Field Name	Description
User ID	User ID is auto generated after registration and it is used as Login ID.
Username	Username of the Customer.
Password	User Password
Phone Number	10-digit contact number of user.
Address	Enter your address.

### **2.7.2 Table: Product\_Details:**

This table contains information related to a product.

Field Name	Description
Product Id	Unique Product Id, Here Product Id will be Primary Key.
Product Name	Name of the Product.
Product Price	Price of the Product.

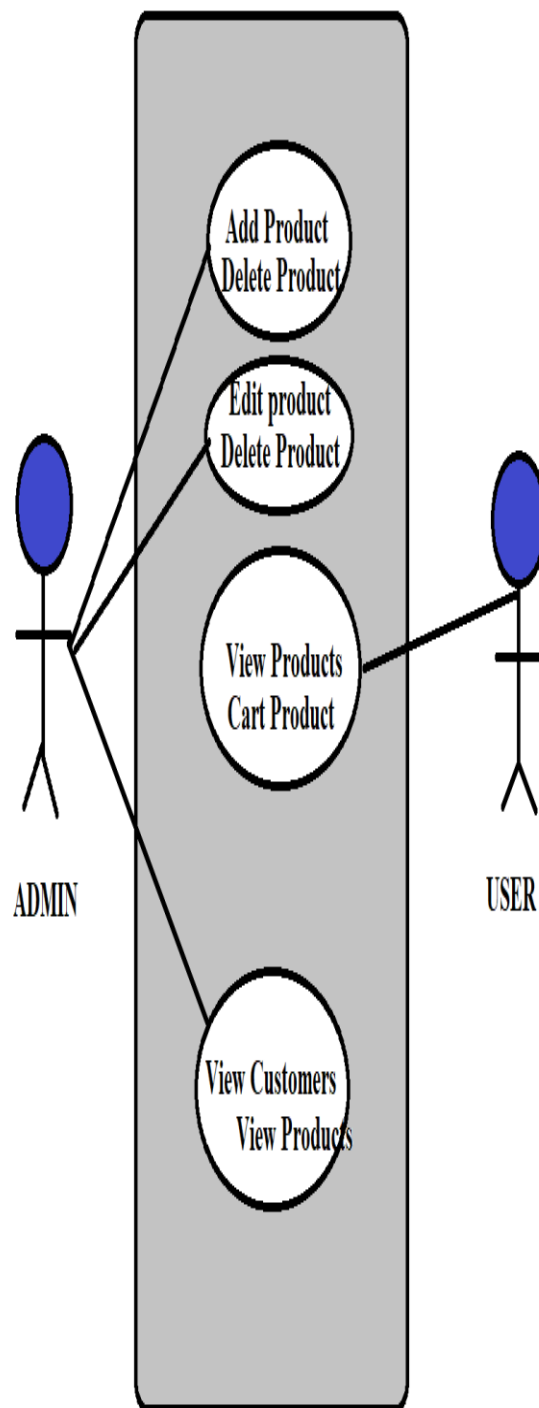
### **2.7.3 Table: Product Cart Details:**

This table contains information related to cart details.

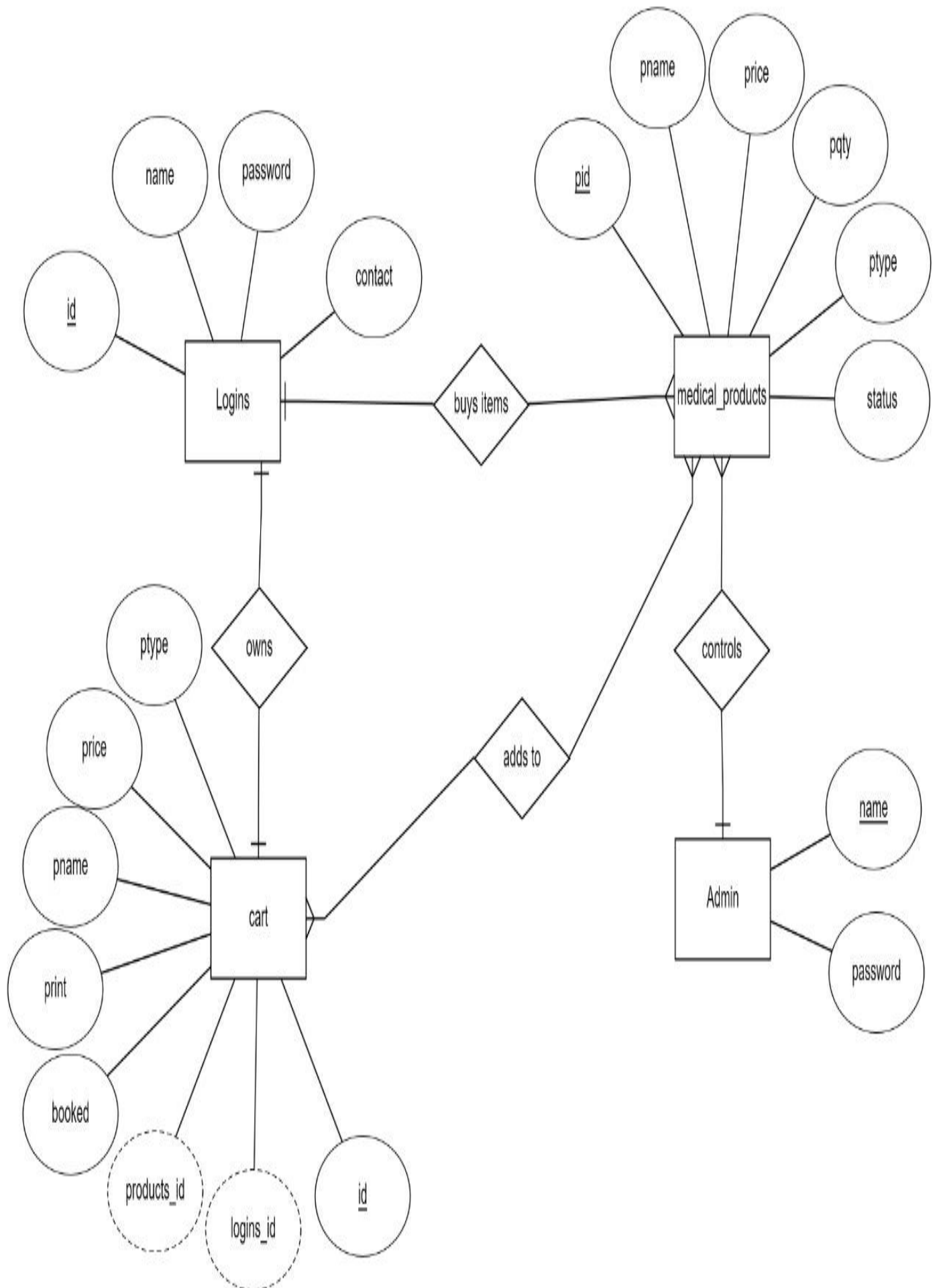
Field Name	Description
Cart Id	Unique Cart ID Auto Generated
User Id	User Id corresponding to logged in user
Product Id	Product Id corresponding to product.
Product Price	Price of the Product
Quantity	Quantity of the product in e.g., 2 or 3 number of products
Total Price	Total price of the purchased products
Status	Product Availability Status, Example: Pending or Placed.

## 2.8 CASE DIAGRAM:

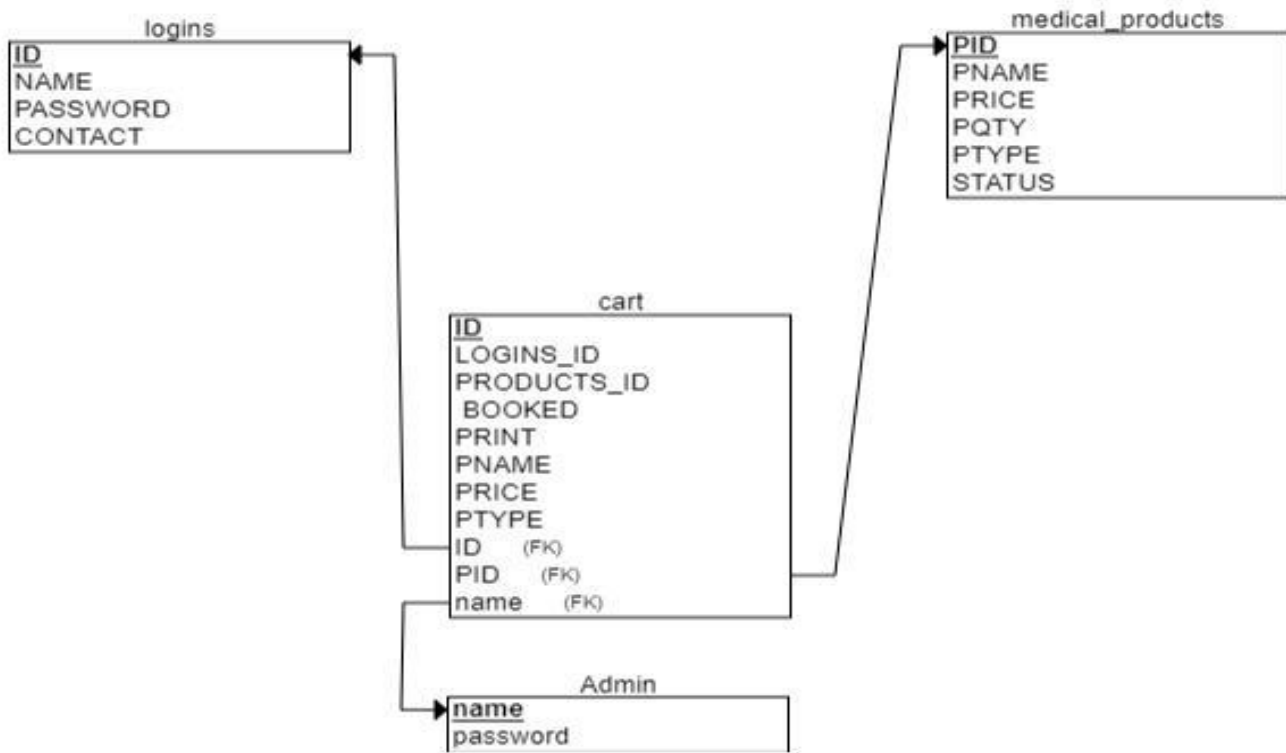
Case Diagram is a visual representation of how a user might interact with a program. A use case diagram depicts the system's numerous use cases and different sorts of users. The circles or ellipses are used to depict the use cases.



## 2.9 ER Diagram:

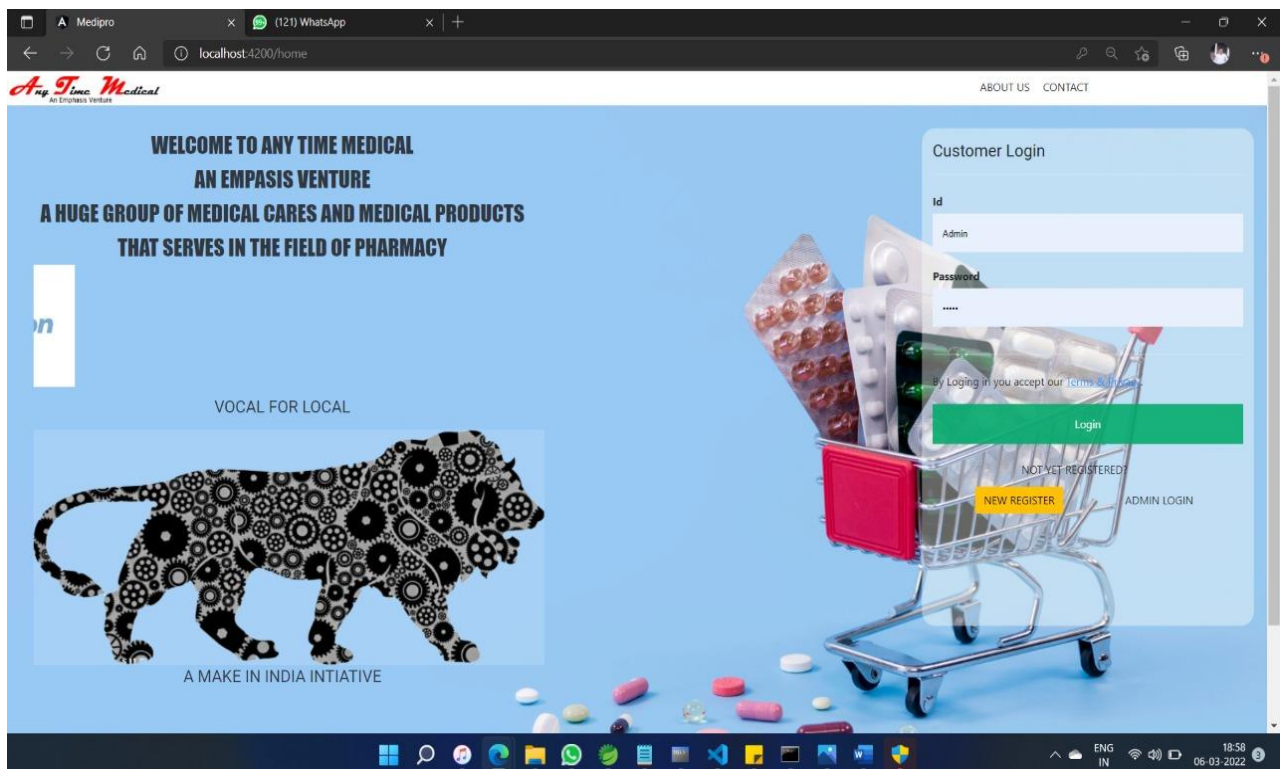


## 2.9.1 CLASS DIAGRAM:



## 3.1 Output Screenshots Of E- Medicare :

### 3.1.1 HOME PAGE:



### 3.1.2 ADMIN PAGE:

Admin Login

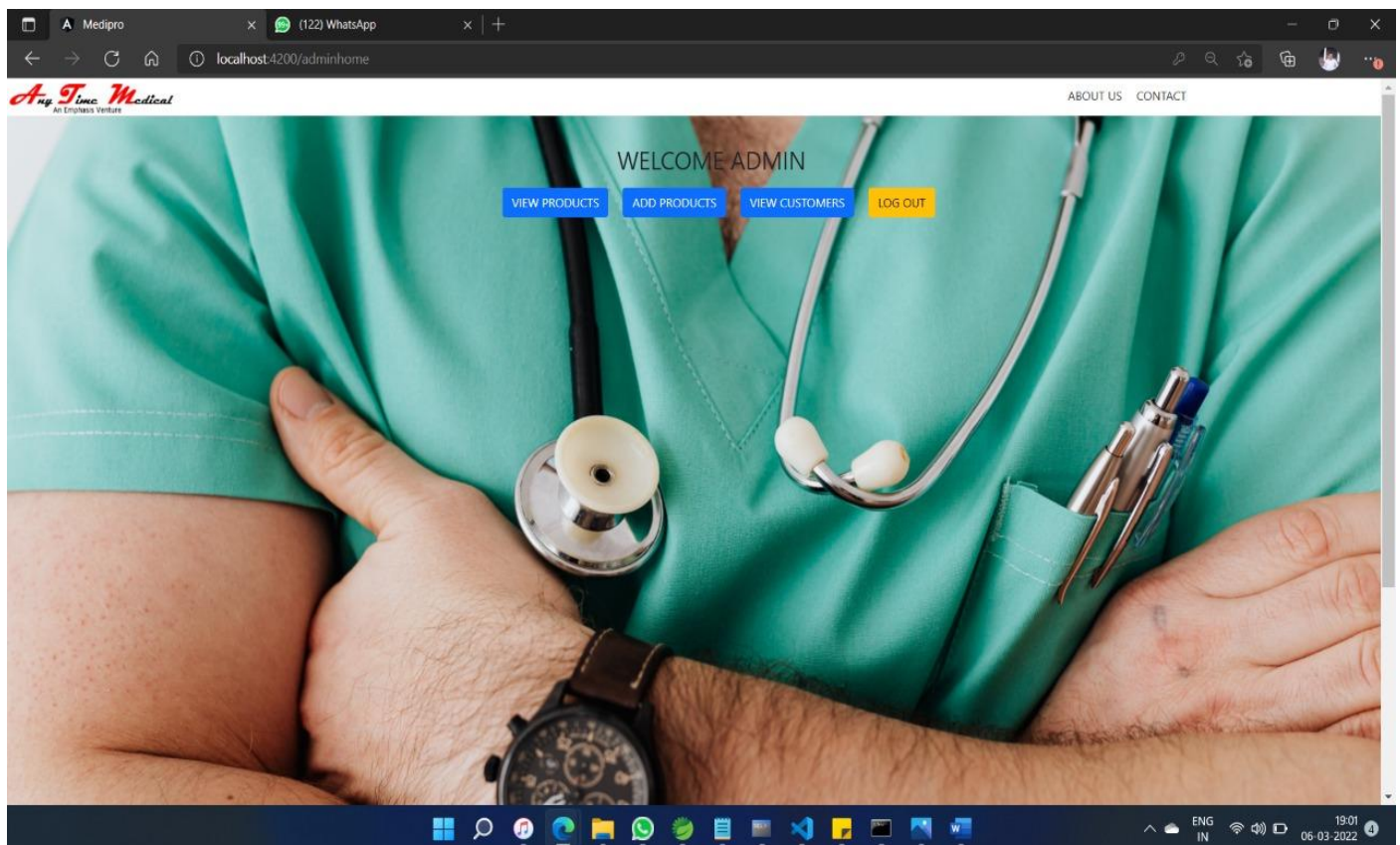
Name  
Admin

Password  
\*\*\*\*\*

By Logging you accept our [Terms & Privacy](#).

Login

### 3.1.3ADMIN DASHBOARD:





## 3.1.4 ADMIN VIEW PRODUCT:

BACK TO ADMIN HOME

PRODUCT ID	PRODUCT NAME	PRODUCT PRICE	PRODUCT CATEGORY	EDIT PRODUCT?	DELETE PRODUCT?	PRODUCT STATUS	AVAILABILITY
111	Dolo-850	40	Antibiotic	EDIT THIS	DELETE IT	A	N
116	Dolo-90	60	Antibiotic	EDIT THIS	DELETE IT	A	N
117	Dolo-10	10	Antibiotic	EDIT THIS	DELETE IT	A	N
74	Novolog	250	Insulin	EDIT THIS	DELETE IT	N	A
75	Covaxin	120	Insulin	EDIT THIS	DELETE IT	N	A
76	Benadryl	35	Syrup	EDIT THIS	DELETE IT	N	A
131	Humulin	500	Insulin	EDIT THIS	DELETE IT	A	N
78	Allegra	90	Syrup	EDIT THIS	DELETE IT	A	N
79	Calpol-650	30	Antibiotic	EDIT THIS	DELETE IT	A	N
132	Humulin	500	Insulin	EDIT THIS	DELETE IT	A	N
81	Dimetane	17	Syrup	EDIT THIS	DELETE IT	A	N
88	Pfizer	190	Insulin	EDIT THIS	DELETE IT	A	N
89	Covishield	200	Insulin	EDIT THIS	DELETE IT	N	A
90	Livosis	12	Antibiotic	EDIT THIS	DELETE IT	A	N

## 3.1.5 ADD PRODUCT:

PRODUCT NAME  
Enter name

PRODUCT PRICE  
Enter Price

PRODUCT QUANTITY  
Enter Quantity

PRODUCT TYPE  
A

PRODUCT STATUS  
Enter A or N

A-Available N-Non-Available

Submit CANCEL

### 3.1.6 VIEW CUSTOMERS LOGIN'S DETAILS:

Aug Time Medical  
All Encompass Ventures

adminviewcustomers works!

ABOUT US CONTACT

BACK TO ADMIN HOME

CUSTOMER ID	CUSTOMER NAME	CUSTOMER PASSWORD	CUSTOMER CONTACT
234	Sunry	VishwaLeo	1234567890
240	Somil	123	131312
241	Shiva	Parvathi	121212
262	Omi	123	123
263	Admin	Parvathi	0
264			0
265			0
266			0
267			0
268			0
269			0
270			0
271	Dhruva	123	2131
272	Gourav	123	12323
275	manasa	Admin	1234567891
231	Vishwas	Vishwas	9886081093
232	Prajwal	Prajwal	819191111
233	Quada	123	9880880900

### 3.1.7 USER LOGIN PAGE:

Aug Time Medical  
All Encompass Ventures

ABOUT US CONTACT

ATM WELCOME's YOU SAHIL

VIEW PRODUCTS UPDATE PROFILE MY CART SEARCH PRODUCT BY CATEGORY LOGOUT

LOOKS LIKE U HAVE NOT SHOPPED YET

MAKE IN INDIA

## 3.1.8 UPDATE PROFILE:

customerprofileupdate works!

WISH THE CHANGE U NEED.. BECAUSE U R THE OWNER..

Name

233

EDIT THIS.. SAVE CHANGES

Password

...

EDIT THIS.. SAVE CHANGES

Mobile No

Enter Mobile number

EDIT THIS.. SAVE CHANGES

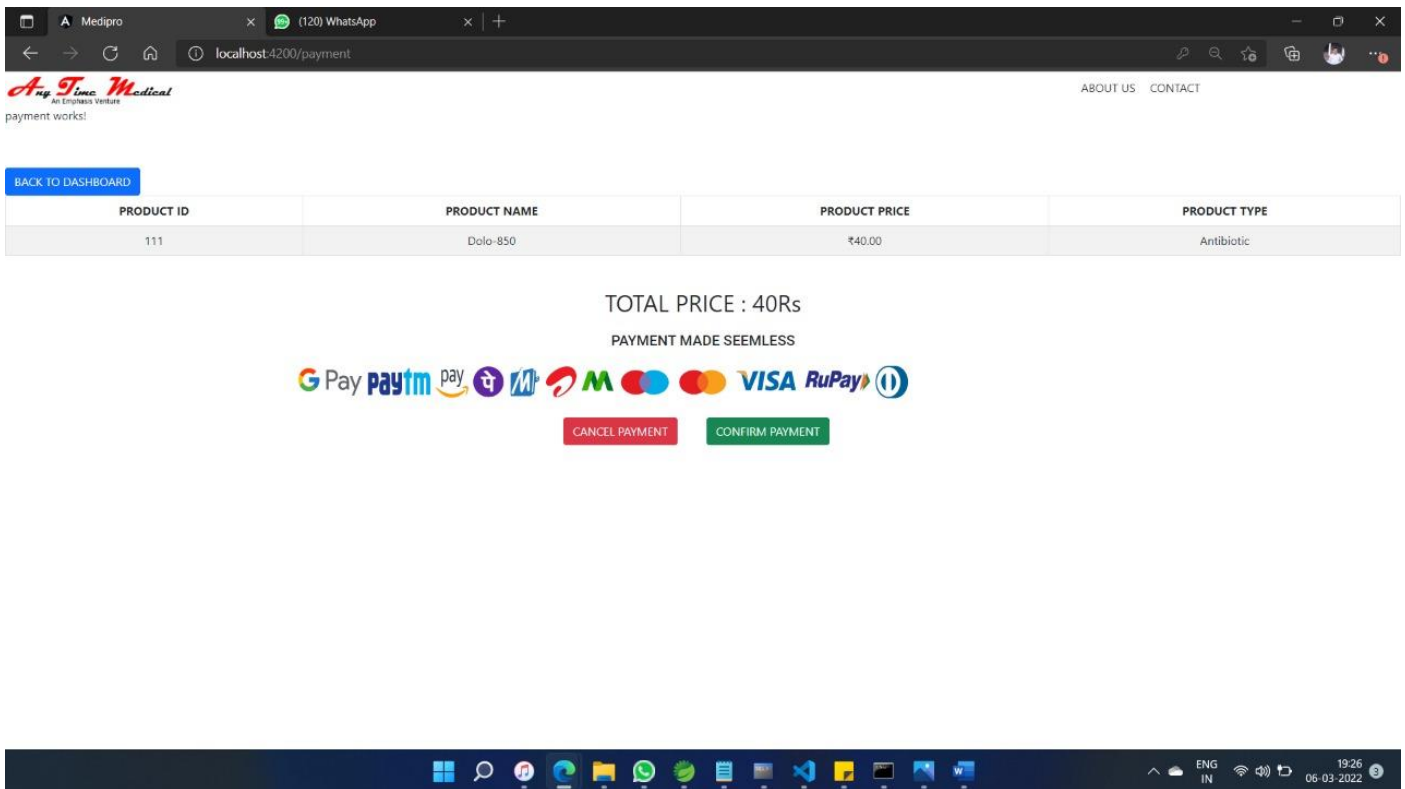
## 3.1.9ADD TO CART:

PRODUCT NAME	PRODUCT PRICE	PRODUCT TYPE	DON'T WANT
Dolo-850	₹40.00	Antibiotic	DELETE IT

TOTAL PRICE : 40Rs

YES ORDER

### 3.1.9.1 SUMMARY LIST:



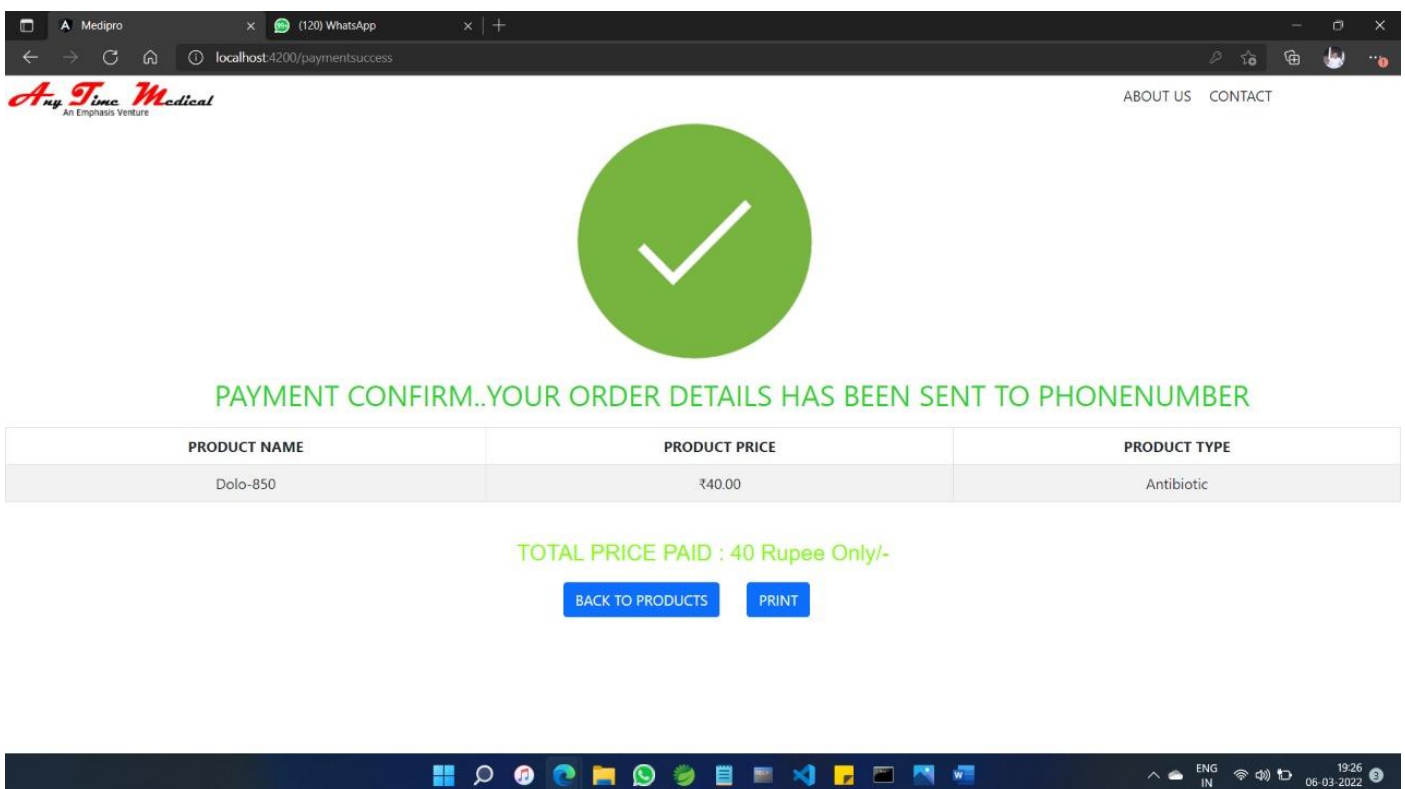
PRODUCT ID	PRODUCT NAME	PRODUCT PRICE	PRODUCT TYPE
111	Dolo-850	₹40.00	Antibiotic

TOTAL PRICE : 40Rs  
PAYMENT MADE SEEMLESS

Logos for various payment methods: G Pay, paytm, payu, M, M, M, VISA, RuPay, and a QR code icon.

[CANCEL PAYMENT](#) [CONFIRM PAYMENT](#)

### 3.1.9.2 PAYMENT RECEIPT:



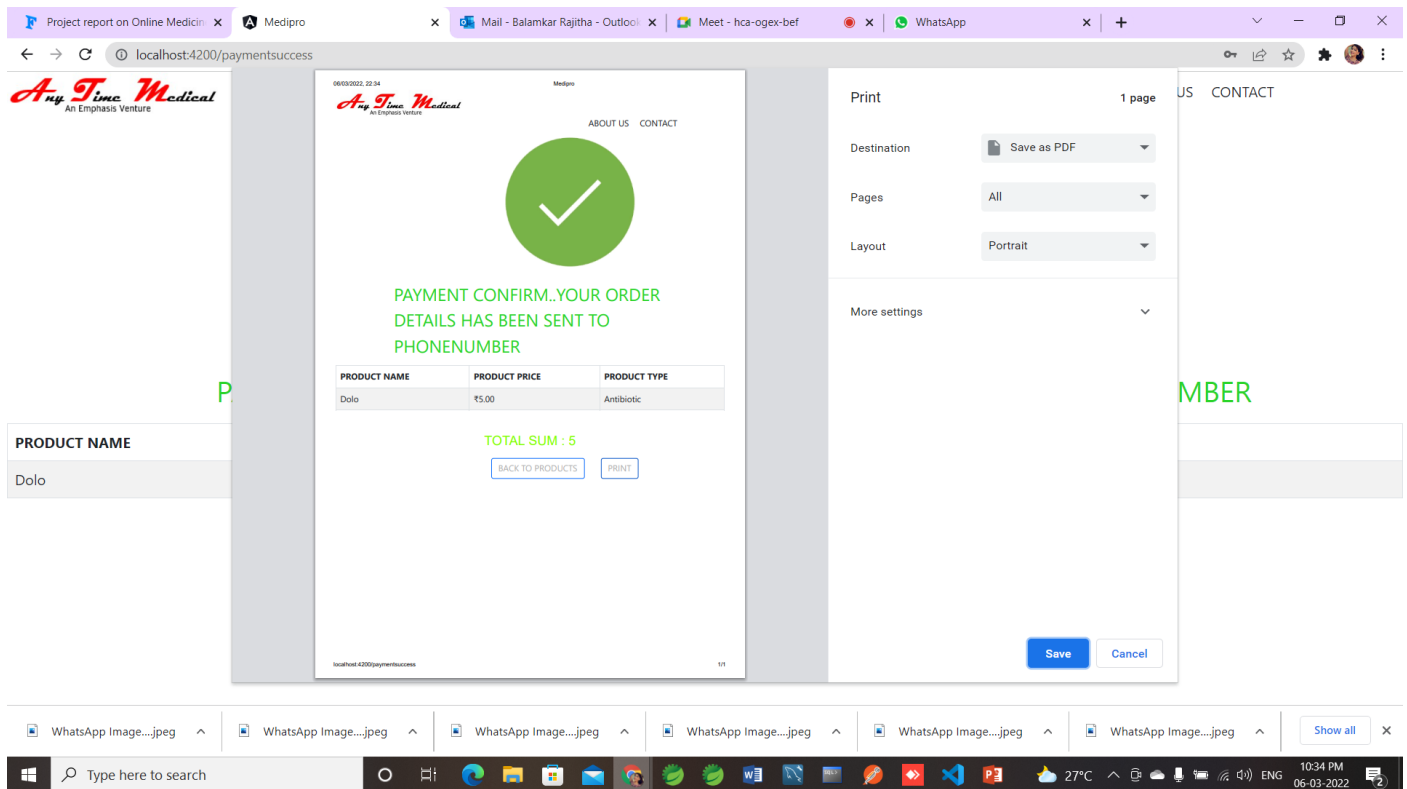
PAYMENT CONFIRM..YOUR ORDER DETAILS HAS BEEN SENT TO PHONENUMBER

PRODUCT NAME	PRODUCT PRICE	PRODUCT TYPE
Dolo-850	₹40.00	Antibiotic

TOTAL PRICE PAID : 40 Rupee Only/-

[BACK TO PRODUCTS](#) [PRINT](#)

### 3.1.9.3 PRINT PAGE:



### 4.1 Assumptions:

- User Interface: The type of client interface (front-end) to be supported - Angular based
- Each user(Admin and Customer) must have a valid user id and password
- The administrator can add and remove products into the databases
- When you add product into cart the No. of Products selected will be incremented
- If you remove the product from the cart, the counter will be decremented
- The total amount will be calculated based on the product, accordingly, change the product counter & total amount.

### 4.2 Advantages:

- Cost efficient
- Less time consuming
- Time-saving: Online pharmacy saves your time and efforts, in just a few

minutes you can head over the E-Medicare website and buy any prescription medicine as per your need. It saves the time that you can spend in traveling to your local pharmacy shop and waiting in line for medicine.

- Anytime anywhere: You can place your order anytime from anywhere as there is no issue of pharmacy closing down.
- Easy Secured payments: Online pharmacy provides the facility of cashless payments either by credit or debit card, paytm or you can also pay by cash on delivery.

### **4.3 CONCLUSION:**