
Medicine Cart

Seat No: 41

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OF

**G H Patel Post Graduate Department of
Computer Science and Technology (GDCST),
Sardar Patel University, V V Nagar**

Submitted to

SARDAR PATEL UNIVERSITY

**as a partial fulfillment of the degree of
Master of Computer Applications (MCA)**

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**G. H. Patel Post-Graduate Department of
Computer Science & Technology,
SARDAR PATEL UNIVERSITY,**

**Near Jain Derasar, Nana Bazar,
Vallabh Vidhyanagar – 388120,
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CERTIFICATE

This is to certify that **Mr. Nikul S. Lakhani (M14067)**, has worked on the project entitled “Medicine Cart” towards the partial fulfillment of the degree of **Master of Computer Applications** during the final semester at G H Patel Post Graduate Department of Computer Science & Technology, Sardar Patel University, Vallabh Vidhyanagar.

Date of Submission:

1st May, 2017

Seal of the Department

Head of The Department

PREFACE

“Knowledge and human power are synonymous”, once said the great philosopher Francis Bacon. However, based on experience within today’s global markets, he would probable say, “the ability to capture, communicate, and leverage knowledge to solve problems is human power.” This raises the question how exactly one can best capture, communicate, and leverage knowledge, especially within the world of system engineering.

The answer probably lies in the statement itself- by communicating your ideas and devising ways and means to give shape to your plans into reality. This requires long term planning and shrewd thinking, for it is the long-term investments that will ultimately help you scale great heights.

This semester of “**Master of Computer Applications**” designed keeping the prerogative and the preferences of the industry in mind. This particular semester allows a student to implement what he has learned within the four walls of his classroom. It is here that the mettle of a student is tested to find his suitability for the rigorous tasks assigned to him in the future. A future executive is born on the basis of hard work and dedication he shows during this period of his trainings.

This report that I am submitting intends to highlight my versatility in sustaining the pulls and pressure of the day-to-day professional life and put to perspective the fact that I am capable enough to deliver whenever a challenge is thrown to me. With this report I intend to highlight my thinking about the future trends of the market in general and IT industry in particular.

I believe in right earnest that this report will set precedence not only among our peers but also for those who will follow us in the near future into the IT industry.

I tried my level best for testing this system and represented this report so if misleading information has been enclosed by mistake, please pardon.

ACKNOWLEDGEMENT

For the ancestors who paved the path before me upon whose shoulders I stand. This is also dedicated to my family and the many friends who supported me on this journey: Thank you.

I would also like to acknowledge **Ms. Khushali Sanghvi** as the second reader of this document and I am gratefully indebted to her for her guidance, encouragement, unwavering support, collegiality and mentorship throughout the development process of this project. She helped me with the functionalities of the system and solving the technical problems. I really admire her professional attitude.

I would like to extend my thanks to those who offered collegial guidance and support over the years: **Mr. Jignesh Smart, Dr. Priti Sajja and Dr. Darshan Choksi.**

I would also like to thank all other respected members at **CrossShore Solutions** for helping me a lot in successful completion of my project.

With sincere regards,
Mr. Nikul S. Lakhani

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Chapter – 1 Introduction

1.1 Department Profile



Department Name: G H Patel Post Graduate Department of Computer Science & Technology

University: Sardar Patel University

Address: Near Jain Derasar,
Nana Bazar,
Vallabh Vidhyanagar, Anand,
Gujarat, India – 388120

History

The Department of Computer Science was established in the year 1986 as an institution offering postgraduate courses in Computer Science. The computing facility, however, was introduced at the Sardar Patel University somewhere in 1973-74 at the University's computer center with an IBM 1620, a second generation mainframe computer.

The University started one-year Post Graduate Diploma in Computer Applications (PGDCA) course in the academic year 1975, Master of Computer Applications (MCA) in the year 1986, M. Sc. (Computer Science) in 1988, M. Sc. (Bioinformatics) in 2004, M. Phil. (Computer Science) in the year 2008, Ph. D. (Computer Science) in 1990 and Ph. D. (Bioinformatics) in 2011.

Besides these programs, the University also started offering computer related short-term programs from time to time. The computing resources were also used by different postgraduate departments of the University for their Research Work. The institute took lead in establishing links with national and international institutes. The department started a CSI chapter (CSI – the Computer Society of India – is a national professional body having links with various professional bodies in India and abroad) in 1985-86. Various workshops, seminars and symposia have been organized under the CSI banner so far, which have strengthened both the teaching and research activities of the department.

In the year **1988**, Late **Shree Gordhanbhai Hathibhai Patel** donated money to the University for a Separate building of the Post Graduate Department of Computer Science. The department was also recognized by the UGC to provide technical training to personnel at various levels of academia and administration. Several PC based systems had been installed and major research work was carried out in the areas of CAI

The department was recognized and offered 'Refresher Courses in Computer Science' for the Computer Science faculty members in India by the University Grants Commission. In the year 2002, a special **MCA** programme

was introduced for providing lateral entry into the second year to computer science graduates. In a short span, the department grew to the extent that a new building was required.

With one more generous donation from Late **Shree Gordhanbhai Hathibhai Patel**, grants from the UGC and the state government and the department's internal sources, a new building of the department with modern infrastructure was constructed. The building was inaugurated on July 22nd, 2002 by HDH Puja Pramukhswami Maharaj. The name of the department was then changed to **GH Patel Post Graduate Department of Computer Science and Technology** in the year 2002. Subsequently, new powerful servers and several workstations were added to the laboratory and electives for bioinformatics and wireless networks were added to the syllabus. The MSc (Bioinformatics) programme under the UGC Innovative Programme scheme was introduced in the year 2005.

1.2 Company Profile

“**CrossShore Solutions**” is an **ASTUTE & AGILE** software Development Company offers custom software development services for **MOBILE, WEB** and **ENTERPRISE SOLUTIONS** to entrepreneurs, small to large businesses and some of the Fortune 500 companies worldwide.

We provide the offshore as well as onshore development and support to our clients.

{Offshore Development + Onshore Support} = CrossShore Solutions

Mission

To be a global leader by offering custom centric software services and products in the eyes of our customers, stakeholders, communities and people

Our Services

Web Development

- PHP Development
- ASP.Net Development
- RWD (Responsive Web Design)
- WordPress Development
- Joomla Development
- Magento Development

Mobile Development

- iPhone App Development
- iPad App Development
- Android App Development
- Windows Mobile Development
- Mobile Website Development
- Hybrid App Development

Address: 317, 318 Abhinav Arcade,
Besides Bank of Baroda, Pritamnagar,
Ashram Road, Ahmedabad – 380006

Website: <http://www.crossshoresolutions.com/>

E-mail: info@crossshoresolutions.com

Contact No: +91 79 40091152

Chapter – 2 Project Profile

2.1 Project Overview

Project Title	Medicine Cart
Aim	The main aim of this system is to provide medicine online by uploading medicine's prescription and its images which are recommended by doctors.
Developed At	CrossShore Solutions
Developed By	Mr. Nikul S. Lakhani
Project Category	E-Commerce Website (App & Portal)
Platform Used	Core PHP
Tools	Front-end: <ul style="list-style-type: none">• HTML/HTML5• CSS/CSS3• Javascript/jQuery• AJAX• NetBeans 7.1 Back-end: <ul style="list-style-type: none">• WAMP Server 2.4• PHP 5.5.15• MySQL 4.3.12• Apache 2.0
Database	MySQL 4.3.12
Duration	3.75 Months (1 st January, 2017 to 22 nd April, 2017)
Team Size	1

2.2 Project Introduction

The main goal of the system is to provide medicines online by uploading **prescriptions** and its **images** which are recommended by doctors.

Users must have to register once in an application in order to place the medicines orders.

Customers are allowed to pay via cash on delivery and they can place multiple orders and notified via SMS or Phone call.

2.3 Scope

This system is a web based portal which is managed by store managers as well as system admin. Every store manager can have their own store login so they can view only their sells and orders. Users can place their order from mobile application and their orders are available in store panel of particular store.

2.4 Brief Introduction to Features

- Users can order multiple items at a time
- User can also add multiple members from their family
- Cash on delivery is available
- Multiple store manager
- Analytics reports

Chapter – 3 Tools & Technologies

3.1 Front-end Tools

- NetBeans 7.1
- Javascript / jQuery
- AJAX
- HTML / HTML5
- CSS / CSS3

3.2 Back-end Tools

- WAMP Server 2.4
- PHP 5.5.15
- MySQL 4.3.12
- Apache 2.0

3.3 Documentation Tools

- MS Word 2007
- MS PowerPoint 2007

3.4 Diagram Tools

- yEd 3.16.2

Chapter – 4 System Analysis

4.1 Preliminary Investigation

In order to have a perfect preliminary investigation the following activities were undertaken:

- Request Clarification
- Feasibility Study
- Request Approval

4.2 Feasibility Study

- **Technical Study:**

Technical feasibility determines whether the work for the project be done with the present equipment, current procedures, existing software's technologies and available personnel.

- **Operational Feasibility:**

The following are some aspects which makes system operationally feasible:

- ✓ There is sufficient support of system from intended users of the system.
- ✓ Graphical user interface provides easy to run facilities.
- ✓ The system will work and there are no major barriers to its implementation within the organization.

- **Economic Feasibility:**

- ✓ Economic feasibility looks at the financial aspects of the project.
- ✓ Economic feasibility concern with the returns from the investments in a project.

4.3 User Characteristics

There are main three users of the system:

1. Admin

- ✓ Login
- ✓ Add store managers
- ✓ Add users
- ✓ Manage all stores
- ✓ Manage all users
- ✓ Logout

2. Store Managers

- ✓ Login
- ✓ Add Company
- ✓ Add Generic
- ✓ Add Category
- ✓ Add Products
- ✓ Profile Management
- ✓ Feedback Listing
- ✓ Order Listing
- ✓ Store Configuration
- ✓ Logout

3. End-users

- ✓ Login
- ✓ Add Members
- ✓ Manage Members

- ✓ Place Order
- ✓ Cancel Order
- ✓ Profile Management
- ✓ Logout

4.4 Constraints

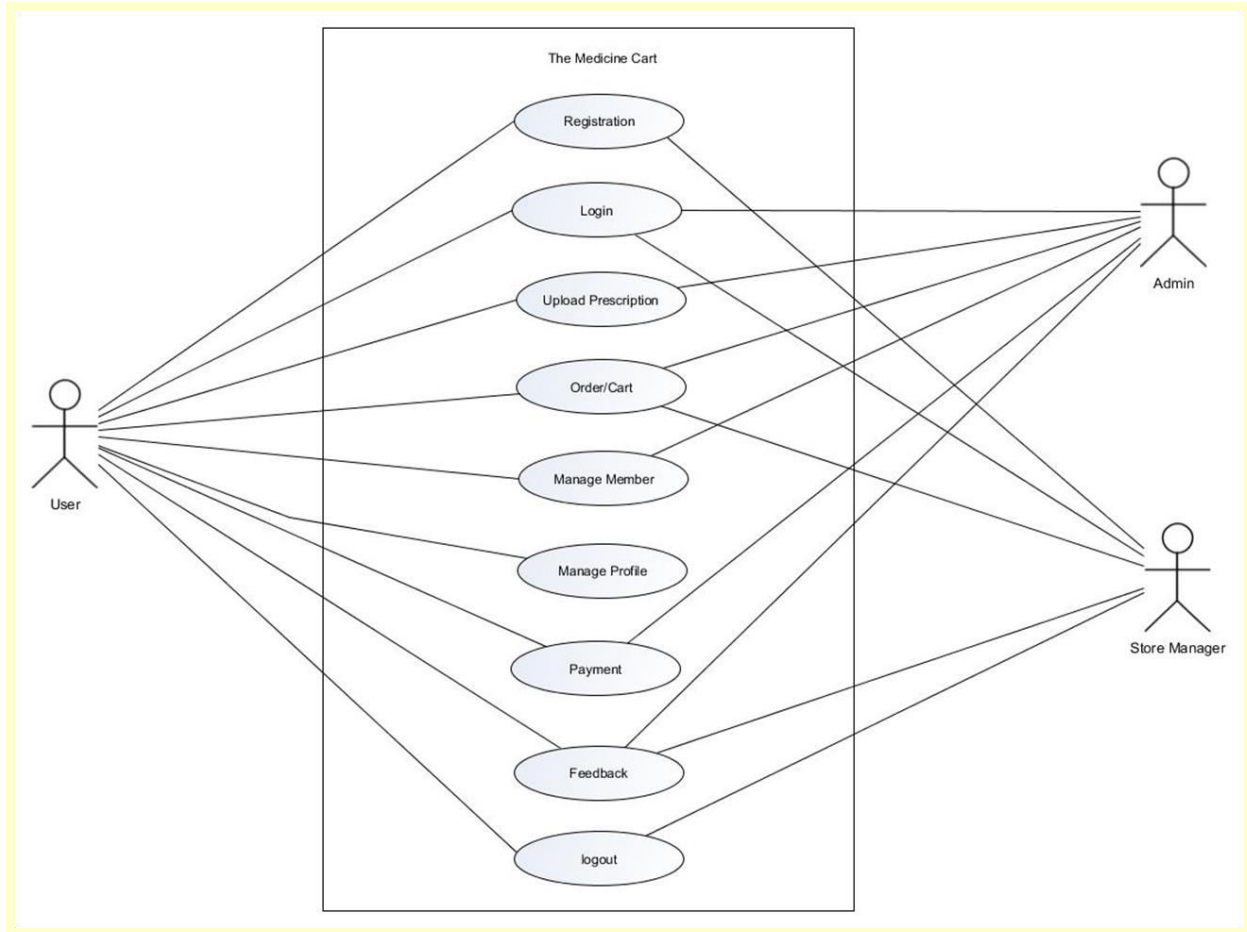
- User must have to login in order to place the order.
- They can only place orders from mobile application(either Android or iOS)

4.5 System Requirements

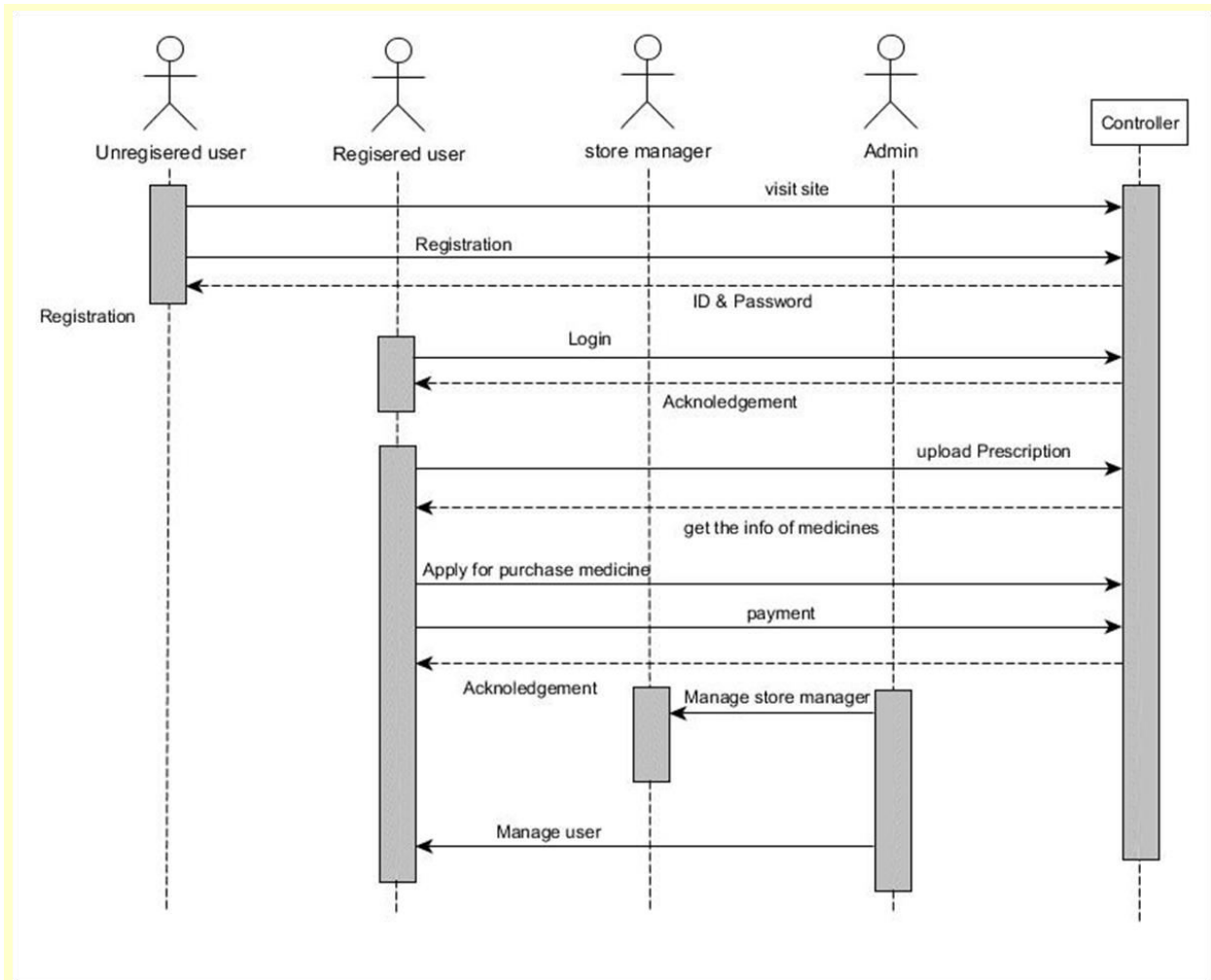
- Web portal can run in any HTML5 supported browsers.
- Application can run in Android and iOS devices.

Chapter – 5 System Design

5.1 Use Case Diagrams

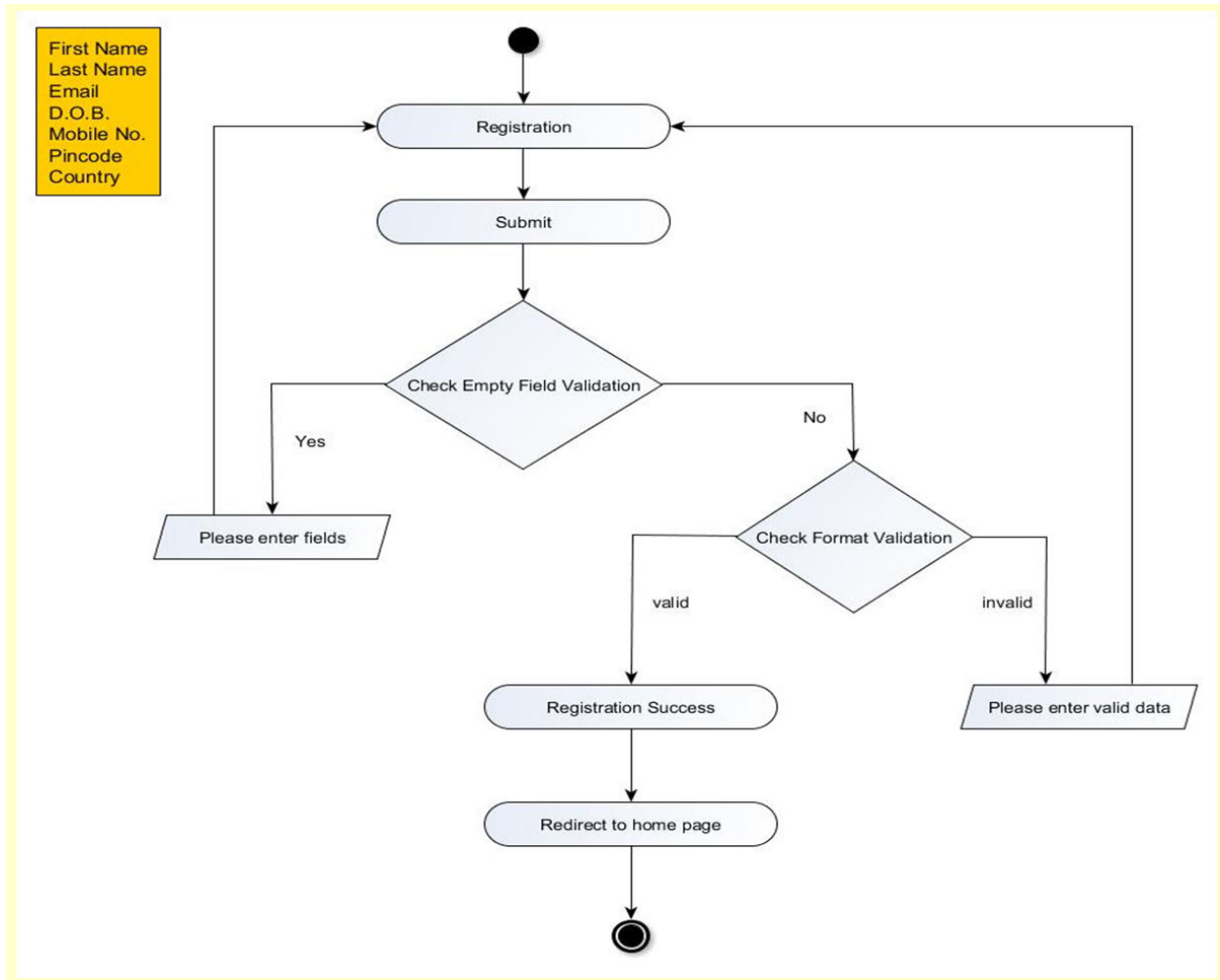


5.2 Sequence Diagrams

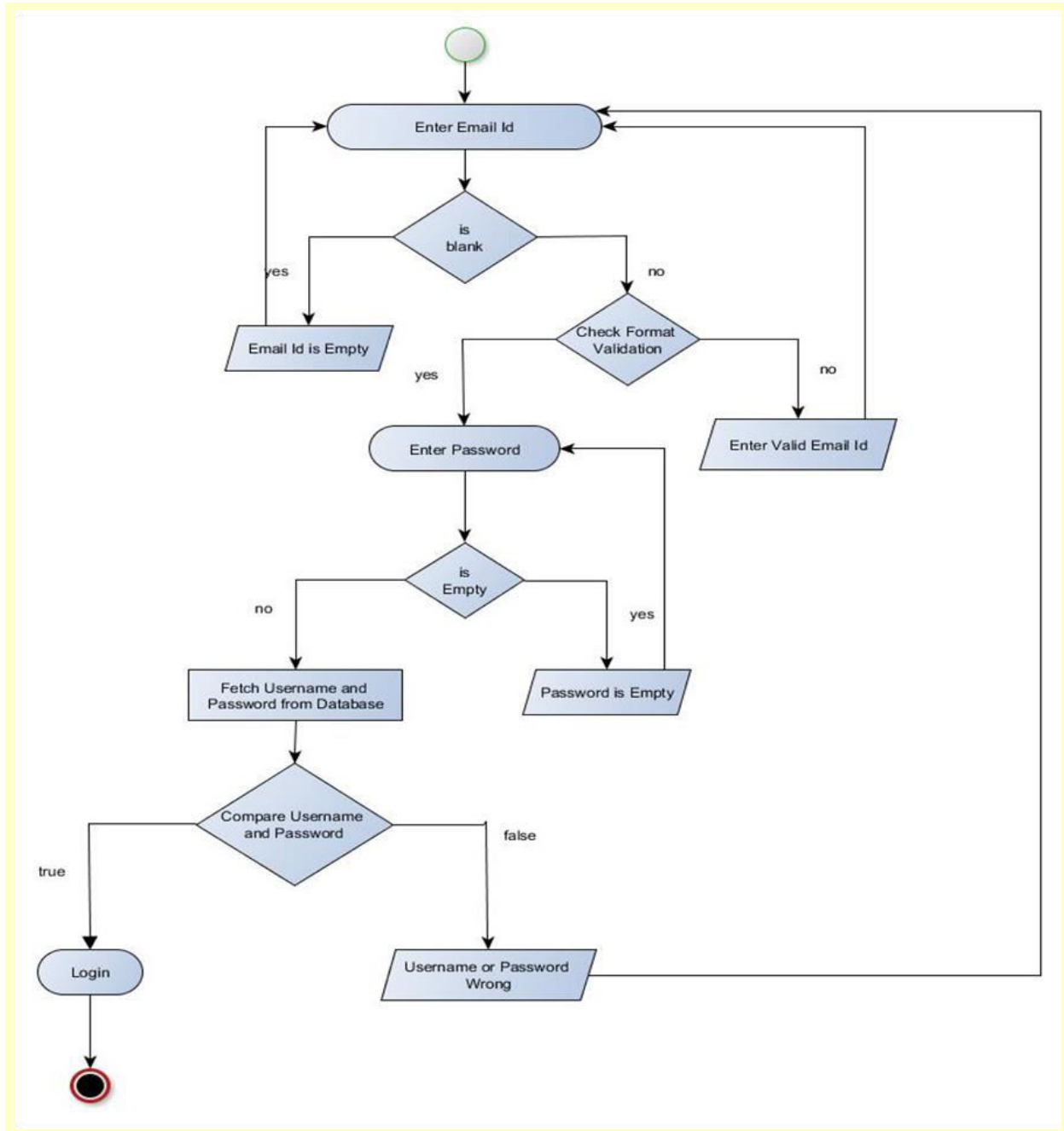


5.3 Activity Diagrams

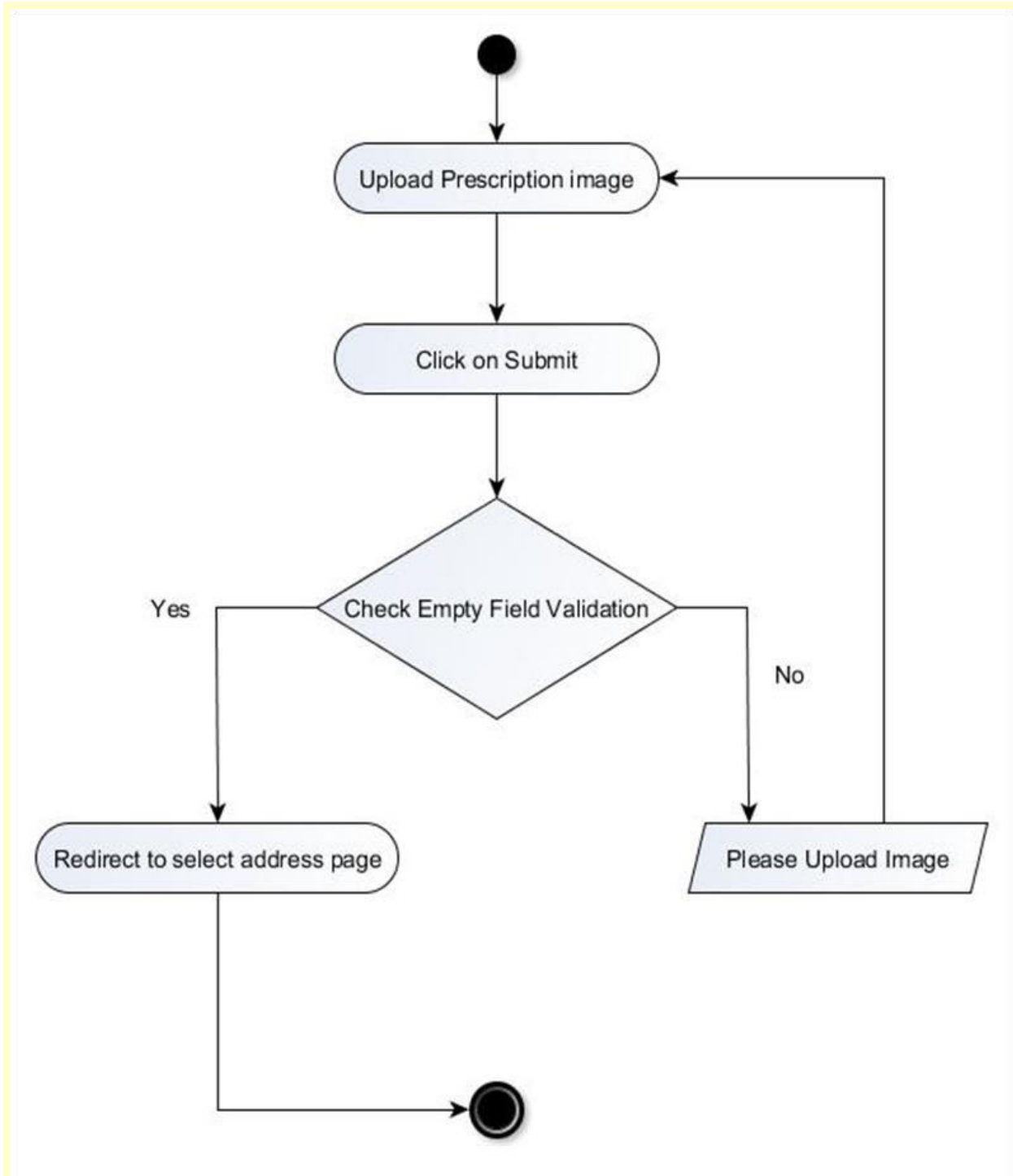
Registration Activity:

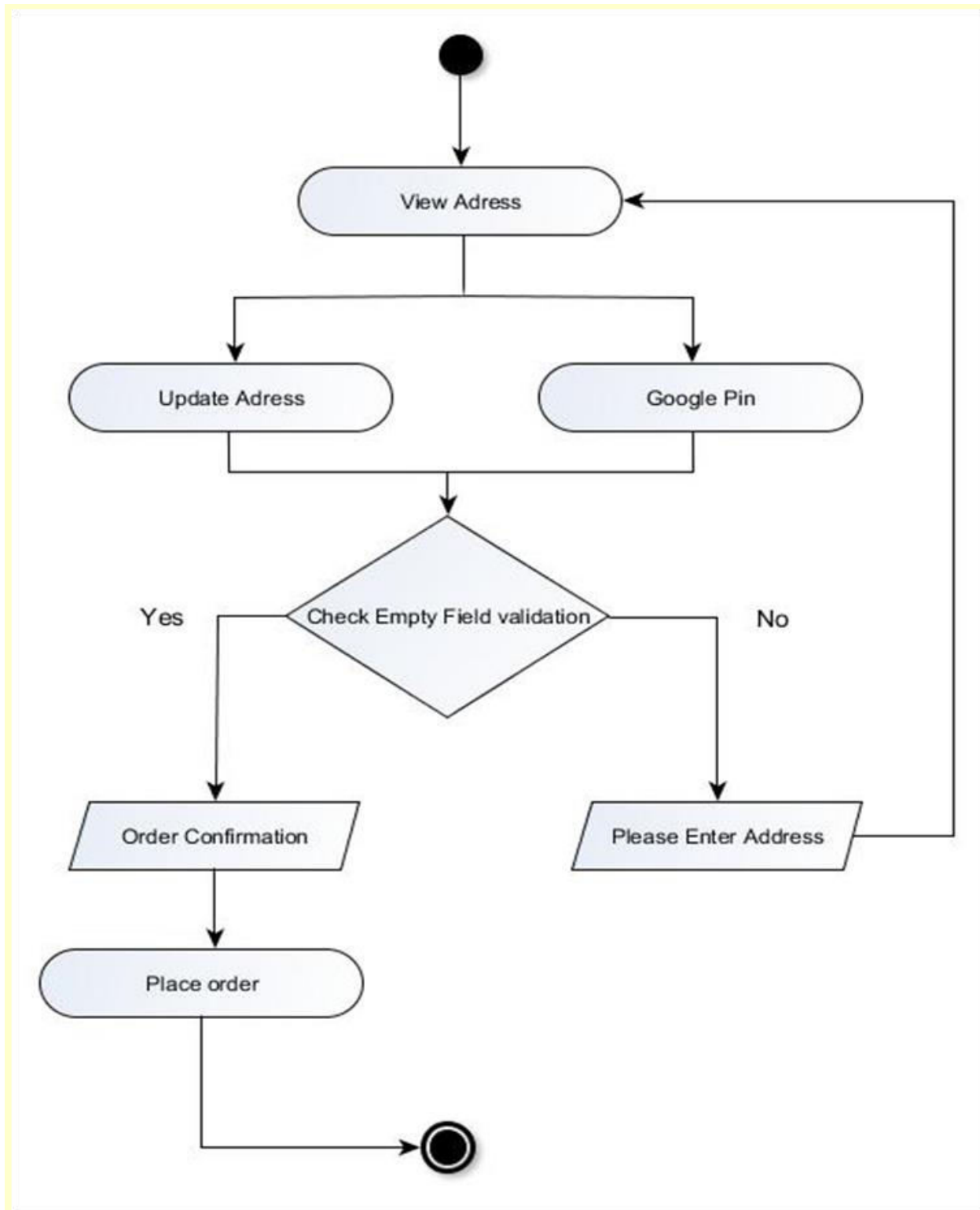


Login Activity:

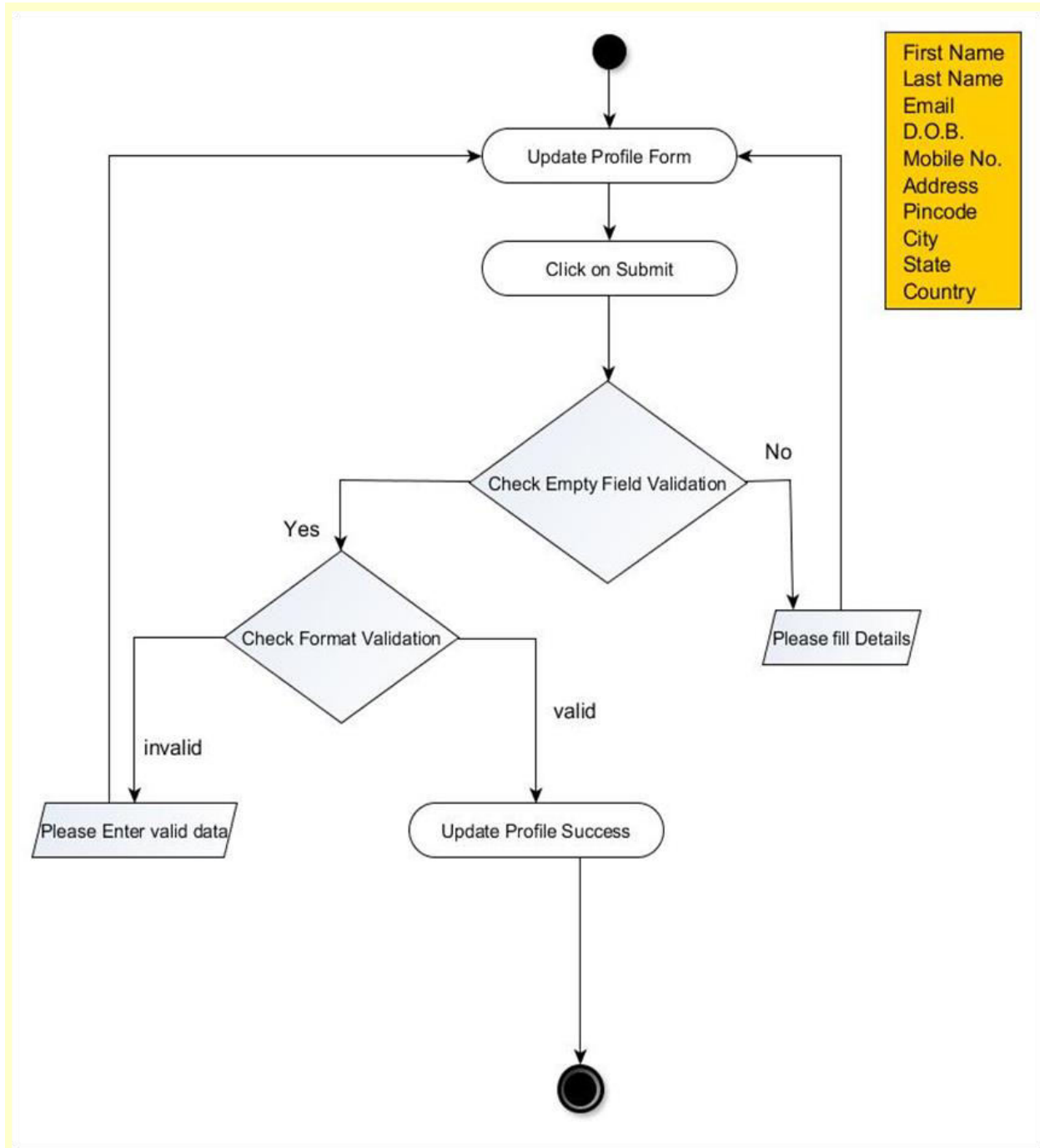


Place Order Activity:

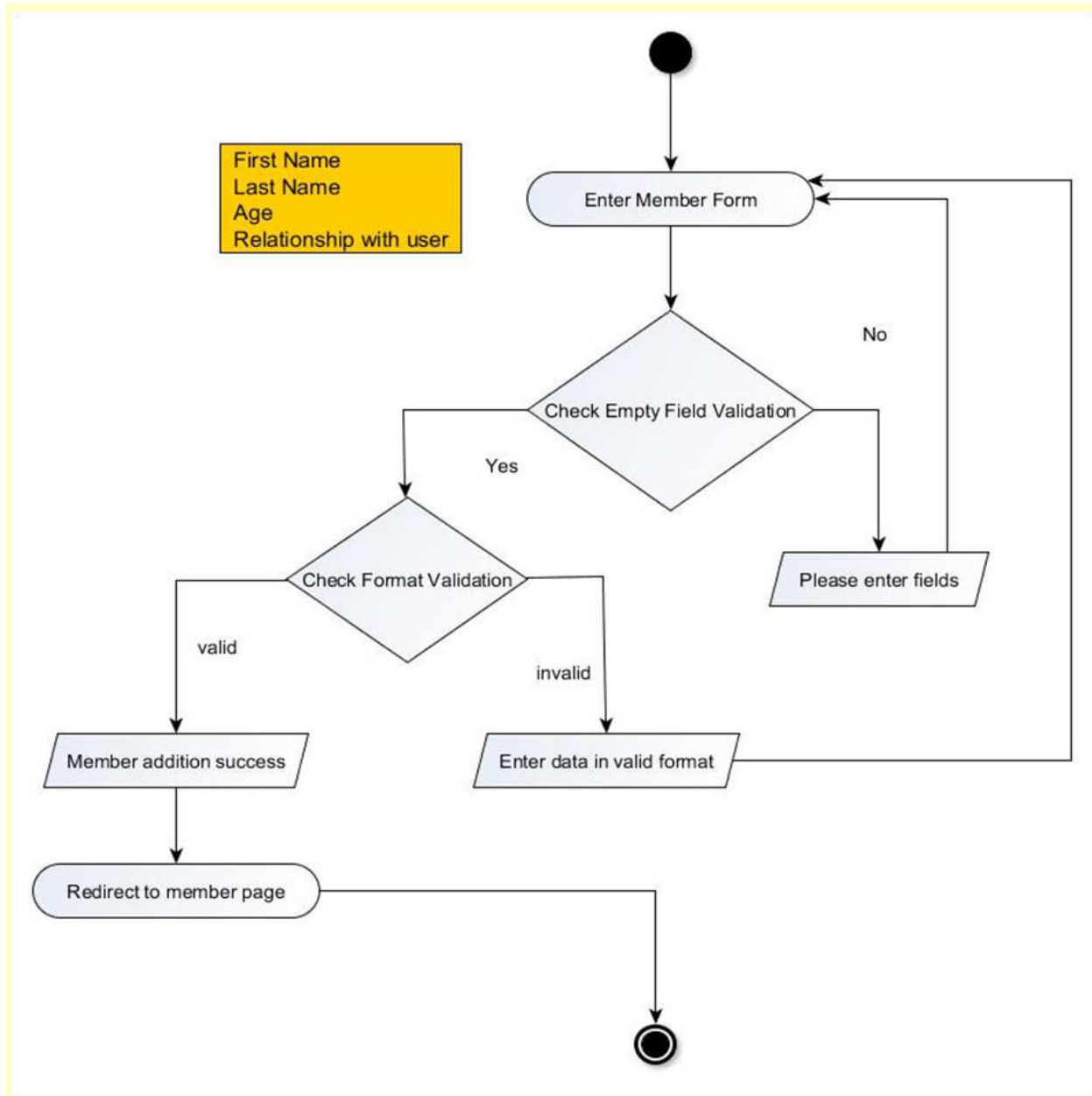


Select Delivery Address Activity:

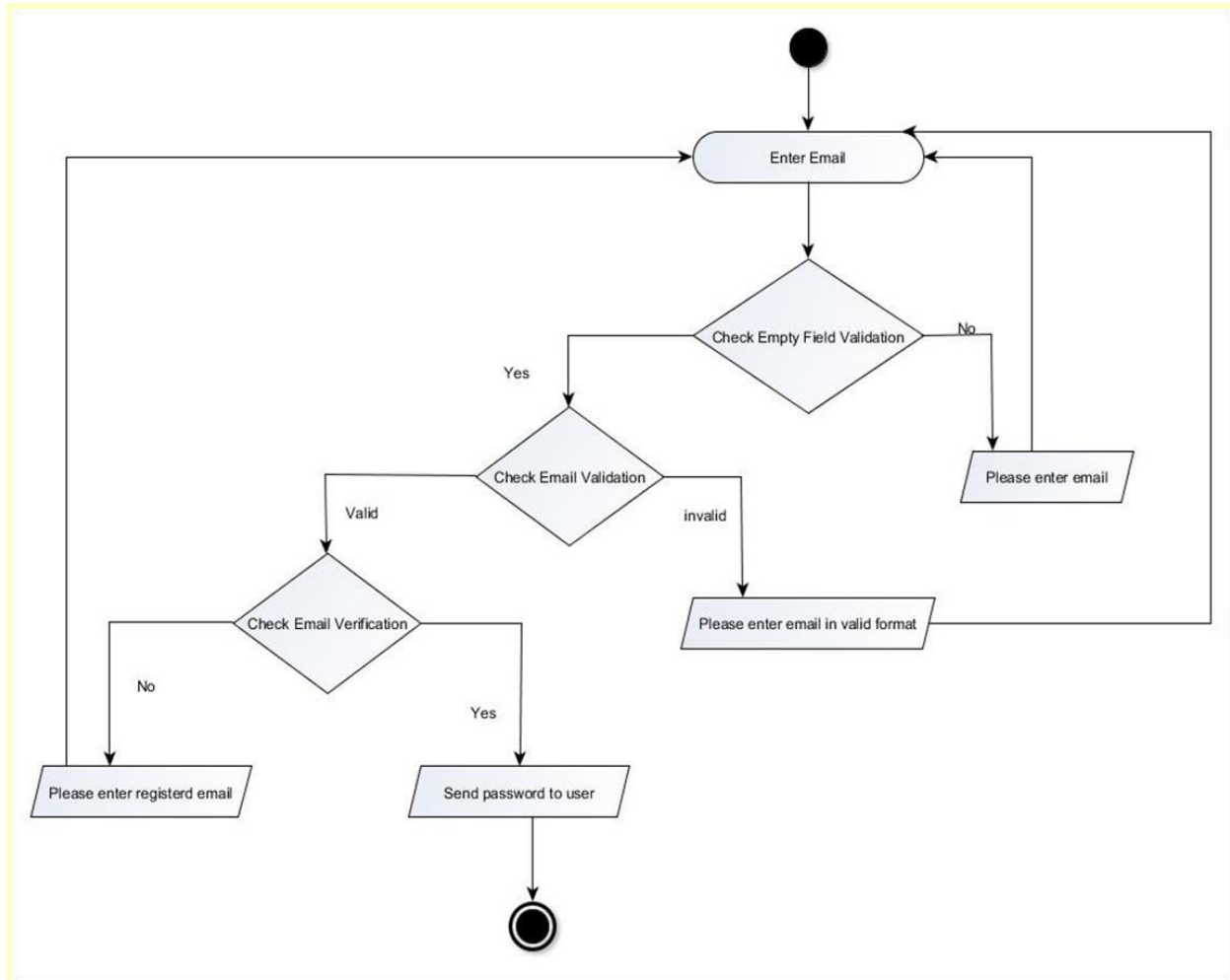
Update Profile Activity:



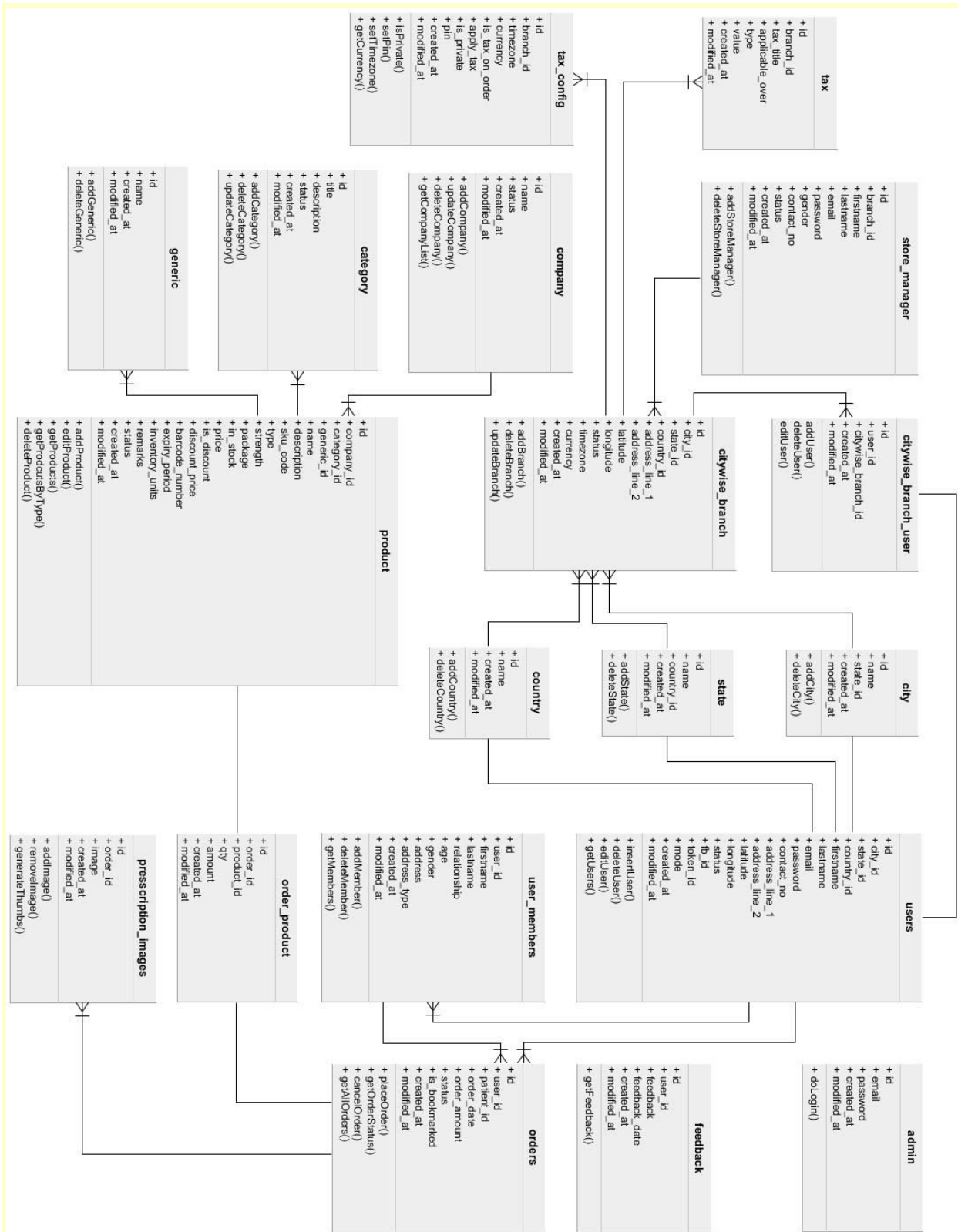
Add New Member Activity:



Forgot Password Activity:



5.4 Class Diagrams



Chapter – 6 Database Design

6.1 Data Dictionary

admin			
Field Name	Data Type	Constraints	Extra
id	int(11)	PK	
email	varchar(60)	Not Null	
password	varchar(50)	Not Null	
created_at	timestamp	Not Null	
modified_at	timestamp	Not Null	

store_manager			
Field Name	Data Type	Constraints	Extra
id	int(11)	PK	
branch_id	int(11)	FK	
firstname	varchar(25)		
lastname	varchar(25)		
email	varchar(60)	Not Null	
password	varchar(50)	Not Null	
gender	enum		1 – male 2 – female
contact_no	varchar(10)		
status	enum	Not Null	1 – active 2 - inactive
created_at	timestamp	Not Null	
modified_at	timestamp	Not Null	

users			
Field Name	Data Type	Constraints	Extra
id	int(11)	PK	
city_id	int(11)	FK	
state_id	int(11)	FK	
country_id	int(11)	FK	
firstname	varchar(25)		
lastname	varchar(25)		
email	varchar(60)	Not Null	
password	varchar(50)	Not Null	
contact_no	varchar(16)		
address_line_1	varchar(140)		
address_line_2	varchar(140)		
latitude	varchar(30)		
longitude	varchar(30)		
status	enum	Not Null	1 – active 2 – inactive
fb_id	varchar(30)		
token_id	varchar(150)		
mode	enum	Not Null	1 – normal 2 – facebook
created_at	timestamp	Not Null	
modified_at	timestamp	Not Null	

user_patient			
Field Name	Data Type	Constraints	Extra
id	int(11)	PK	
user_id	int(11)	FK	
firstname	varchar(25)		
lastname	varchar(25)		

relationship	varchar(20)		
age	int(3)		
gender	enum	Not Null	1 – male 2 – female
address	varchar(200)	Not Null	
address_type	enum	Not Null	1 – home 2 – work 3 – other
created_at	timestamp	Not Null	
modified_at	timestamp	Not Null	

city			
Field Name	Data Type	Constraints	Extra
id	int(11)	PK	
name	varchar(25)	Not Null	
state_id	int(11)	FK	
created_at	timestamp	Not Null	
modified_at	timestamp	Not Null	

state			
Field Name	Data Type	Constraints	Extra
id	int(11)	PK	
name	varchar(25)	Not Null	
country_id	int(11)	FK	
created_at	timestamp	Not Null	
modified_at	timestamp	Not Null	

country			
Field Name	Data Type	Constraints	Extra

id	int(11)	PK	
name	varchar(25)	Not Null	
created_at	timestamp	Not Null	
modified_at	timestamp	Not Null	

citywise_branch			
Field Name	Data Type	Constraints	Extra
id	int(11)	PK	
city_id	int(11)	FK	
state_id	int(11)	FK	
country_id	int(11)	FK	
address_line_1	varchar(140)		
address_line_2	varchar(140)		
latitude	varchar(30)		
longitude	varchar(30)		
status	enum	Not Null	1 – active 2 – inactive
timezone	varchar(100)		
currency	varchar(15)		
created_at	timestamp	Not Null	
modified_at	timestamp	Not Null	

citywise_branch_user			
Field Name	Data Type	Constraints	Extra
id	int(11)	PK	
user_id	int(11)	FK	
citywise_branch_id	int(11)	FK	
created_at	timestamp	Not Null	
modified_at	timestamp	Not Null	

company			
Field Name	Data Type	Constraints	Extra
id	int(11)	PK	
name	varchar(50)	Not Null	
status	enum	Not Null	1 – active 2 – inactive
created_at	timestamp	Not Null	
modified_at	timestamp	Not Null	

category			
Field Name	Data Type	Constraints	Extra
id	int(11)	PK	
title	varchar(20)	Not Null	
description	varchar(255)		
status	enum	Not Null	1 – active 2 – inactive
created_at	timestamp	Not Null	
modified_at	timestamp	Not Null	

generic			
Field Name	Data Type	Constraints	Extra
id	int(11)	PK	
name	varchar(100)	Not Null	
created_at	timestamp	Not Null	
modified_at	timestamp	Not Null	

products			
Field Name	Data Type	Constraints	Extra
id	int(11)	PK	
company_id	int(11)	FK	
category_id	int(11)	FK	
generic_id	int(11)	FK	
name	varchar(100)	Not Null	
description	varchar(255)		
sku_code	varchar(20)	Not Null	
type	enum	Not Null	1 – tablet 2 – syrup 3 – other
strength	varchar(30)		
package	varchar(50)		
in_stock	tinyint(1)	Not Null	0 – Default
price	decimal(10,2)	Not Null	0 – Default
is_discount	tinyint(1)	Not Null	0 – Default
discount_price	decimal(10,2)		
barcode_number	varchar(50)	Not Null	
expiry_period	date	Not Null	
inventory_units	varchar(10)		
remarks	varchar(200)		
status	enum	Not Null	1 – active 2 – inactive
created_at	timestamp	Not Null	
modified_at	timestamp	Not Null	

orders			
Field Name	Data Type	Constraints	Extra
id	int(11)	PK	
user_id	int(11)	FK	
patient_id	int(11)	FK	
order_date	date	Not Null	
order_amount	decimal(10,2)	Not Null	
status	enum	Not Null	1 – pending 2 – accepted 3 – onhold 4 – dispatched 5 – delivered 6 – cancelled 7 – rejected
is_bookmarked	enum	Not Null	1 –yes 2 – no
created_at	timestamp	Not Null	
modified_at	timestamp	Not Null	

orders_product			
Field Name	Data Type	Constraints	Extra
id	int(11)	PK	
order_id	int(11)	FK	
product_id	int(11)	FK	
qty	int(11)	Not Null	
amount	decimal(10,2)	Not Null	
created_at	timestamp	Not Null	
modified_at	timestamp	Not Null	

prescription_images			
Field Name	Data Type	Constraints	Extra
id	int(11)	PK	
order_id	int(11)	FK	
image	varchar(100)	Not Null	
created_at	timestamp	Not Null	
modified_at	timestamp	Not Null	

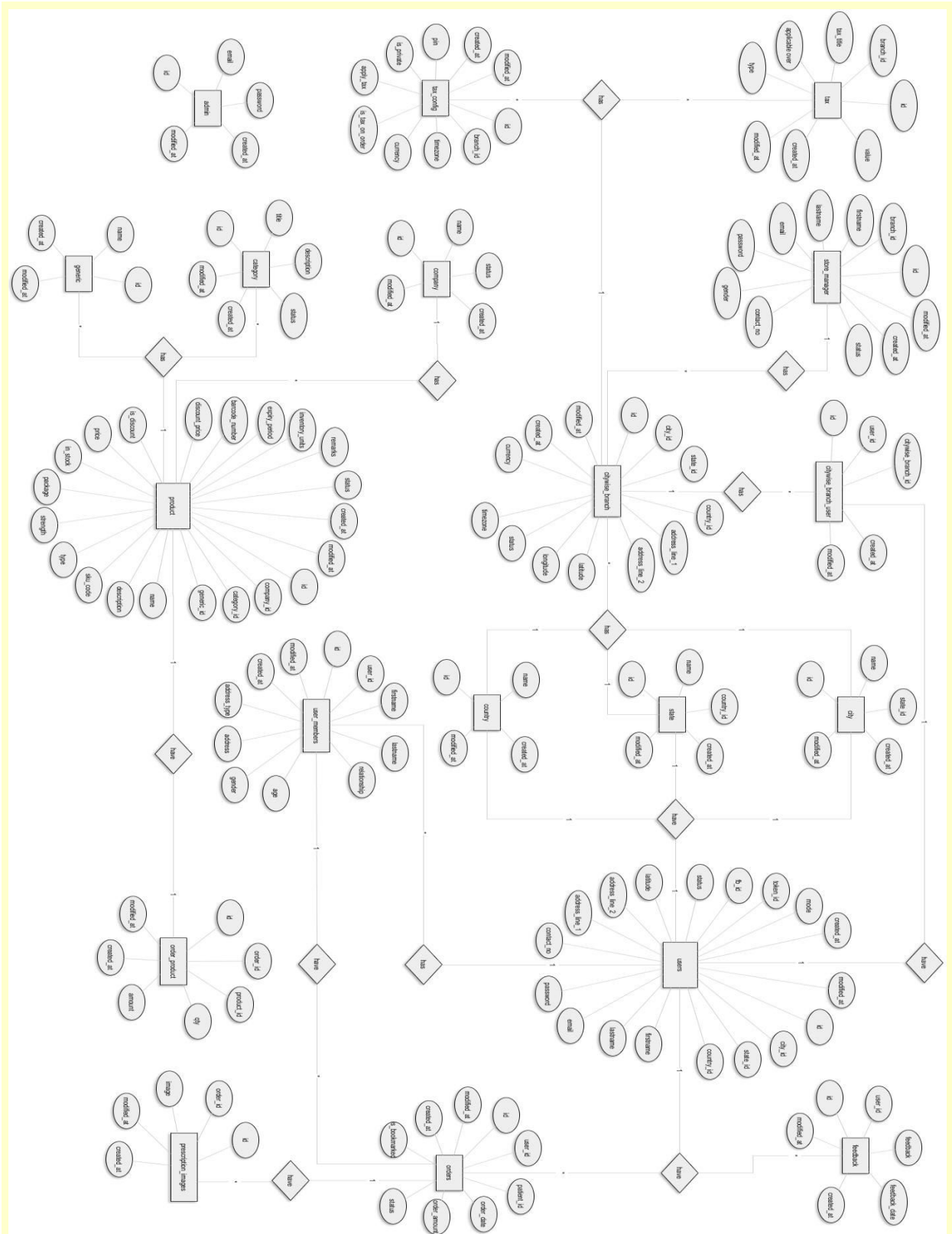
tax			
Field Name	Data Type	Constraints	Extra
id	int(11)		
branch_id	int(11)		
tax_title	varchar(30)		
applicable_over	enum		1 – ontax 2 – onorder
type	enum		1 – amount 2 – percentage
value	decimal(10,2)		
created_at	timestamp		
modified_at	timestamp		

tax_config			
Field Name	Data Type	Constraints	Extra
id	int(11)	PK	
branch_id	int(11)	FK	
timezone	varchar(50)		
currency	varchar(15)		
is_tax_on_order	tinyint(1)	Not Null	
apply_tax	enum	Not Null	1 – perorder 2 – perproduct

is_private	tinyint(1)	Not Null	
pin	varchar(6)		
created_at	timestamp	Not Null	
modified_at	timestamp	Not Null	

user_feedback			
Field Name	Data Type	Constraints	Extra
id	int(11)	PK	
user_id	int(11)	FK	
feedback	text		
feedback_date	date	Not Null	
created_at	timestamp	Not Null	
modified_at	timestamp	Not Null	

6.2 Entity Relationship Diagram (ERD)



Chapter – 7 Implementation

7.1 Coding Standards

*“The best applications are coded **properly**. This sounds like an obvious statement, but by ‘**properly**’, means that the code not only does its job well, but is also easy to add to, maintain and debug.”*

Why to have coding standards:

Coding standards are great – but how to you decide which standards you want to apply, and how they will be defined? When we formulate our ideal coding style, we should think about these points:

- ✓ Can you actually read the code? Is it spaced out clearly?
- ✓ Do you separate block of code into ‘paragraphs’ so that different sections are easily defined?
- ✓ Are you variable naming conventions consistent throughout the code and do they briefly describe that data that they’ll contain?
- ✓ Are functions named in accordance with what they do?
- ✓ If come back to the code in a few weeks or months, will you be able to work out what’s happening without needing to look at every line?
- ✓ How are you commenting your work?

Once we’ve considered those points, we can begin to draft our coding standards. Every developer has their own coding standards, and it will take a while for that developer to change to the new methods.

Different Standards:

PHP example code and Pear modules (etc.) generally use the ‘**Pear Coding Standards**’ which are slightly different from the method we normally use in **C** or **C++** language.

For example, In **C** or **C++**, we normally put the braces for control structures on a new line:

```
if (condition)
{
    printf('Hello World!');
}
```

But in the **Pear** standards, the first brace is on the same line as the 'if' (condition):

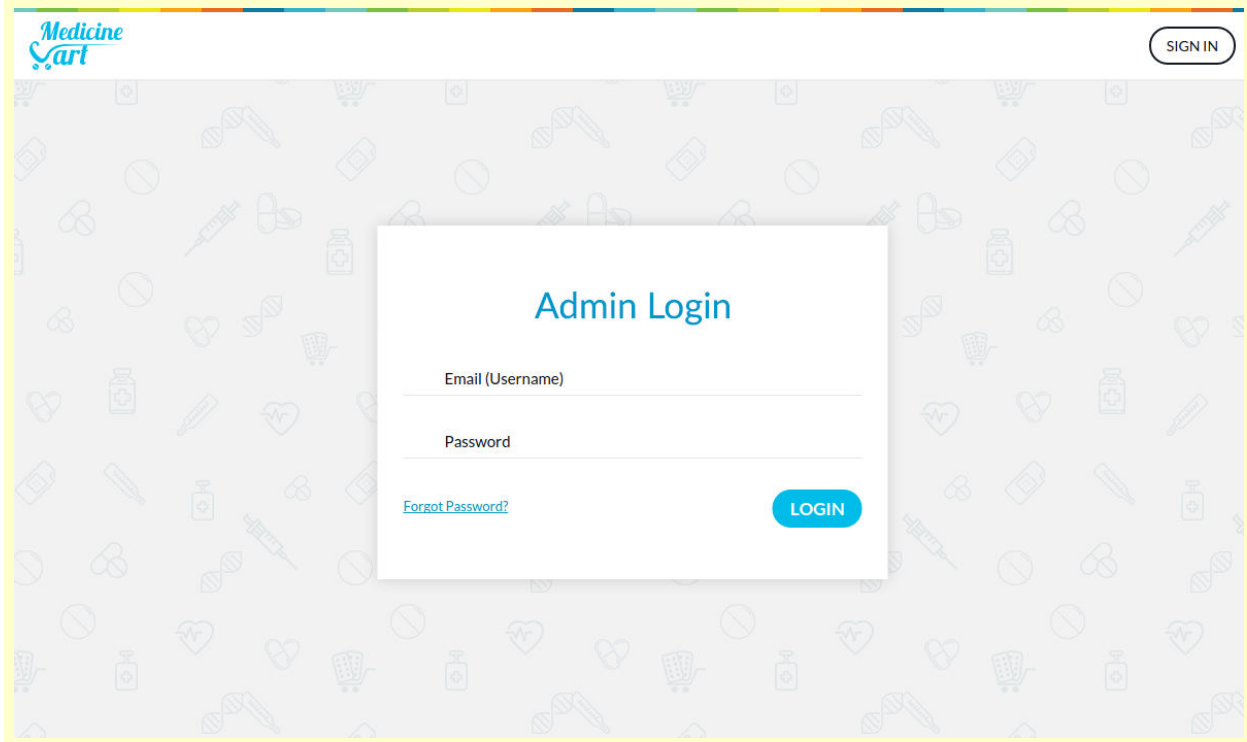
```
if (condition) {
    printf('Hello World!');
}
```

The standards we choose are all down to personal preference and what we find easiest to code and read.

Note: *In this system we've used **Pear** standards.*

7.2 Screenshots

Admin & Store Manager Login:



Medicine Cart

SIGN IN

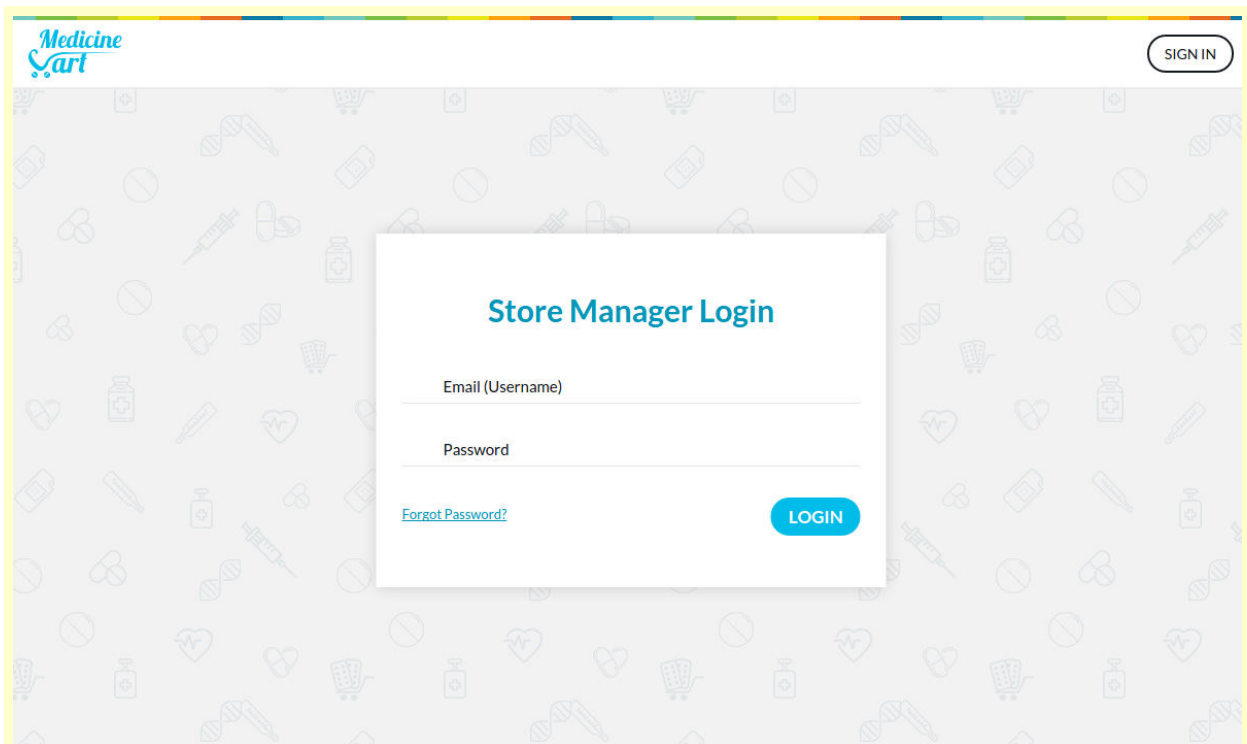
Admin Login

Email (Username)

Password

[Forgot Password?](#)

LOGIN



Medicine Cart

SIGN IN

Store Manager Login

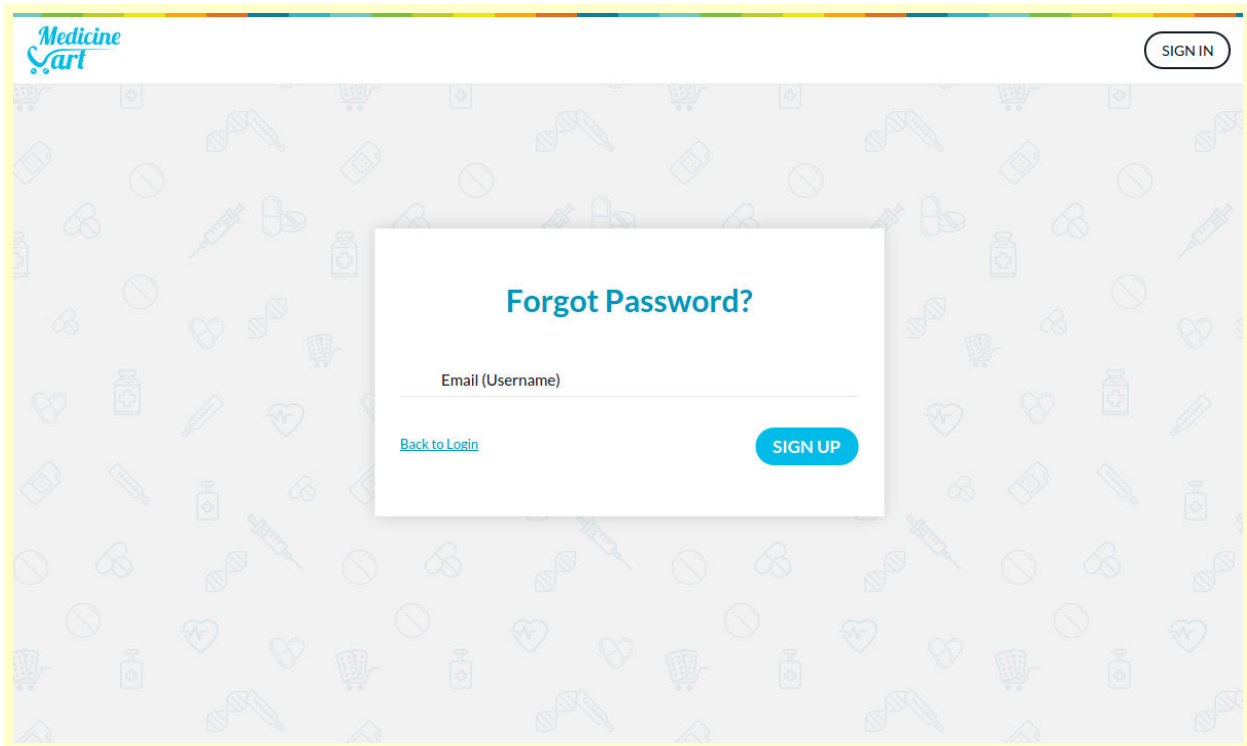
Email (Username)

Password

[Forgot Password?](#)

LOGIN

Forgot Password:



The image shows a web page for 'Medicine Cart' with a 'Forgot Password?' form. The page has a white header with the 'Medicine Cart' logo on the left and a 'SIGN IN' button on the right. The background is a light gray with a repeating pattern of medical icons like pills, syringes, and DNA helices. The form is a white box in the center with a blue title 'Forgot Password?'. It contains a text input field labeled 'Email (Username)', a blue 'SIGN UP' button, and a blue link 'Back to Login'.

Medicine Cart

SIGN IN

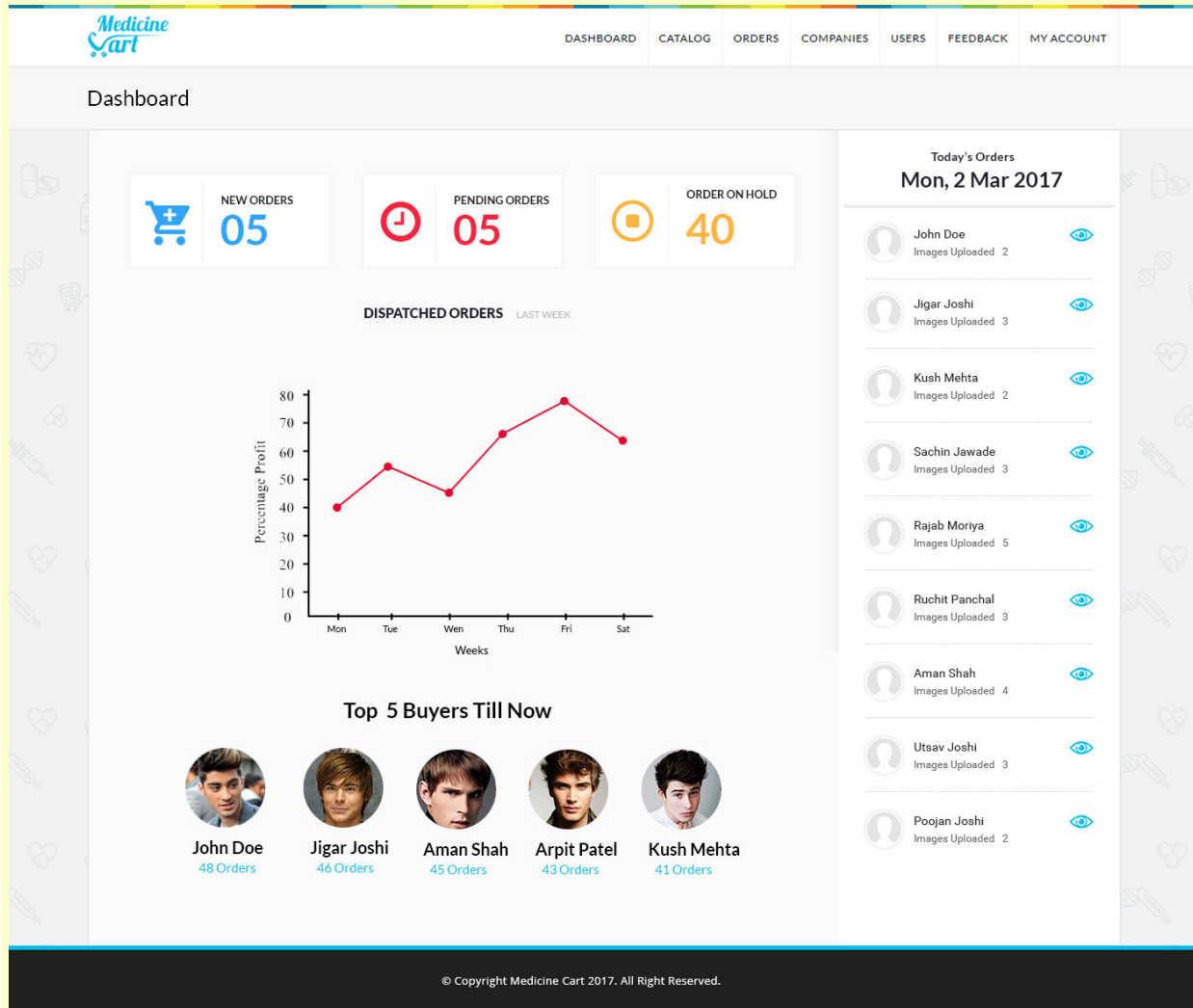
Forgot Password?

Email (Username)

[Back to Login](#) [SIGN UP](#)

Dashboard:

After login, store manager/admin will be redirected to Dashboard page where they can see statistics for their store.



Add Product:

Store managers can add new products in their online store; they have to update their stock and products details in store panel for particular product.

There are normally three types of products: **Tablet**, **Syrup** and **Other**.

Store managers can also import multiple products from **CSV** file by clicking on **'Add Product through CSV'**

Each product has its own **category**, **company** and **generic**.

Medicine Cart

DASHBOARD CATALOG ORDERS COMPANIES USERS FEEDBACK MY ACCOUNT

Add Product [Manage Categories](#) [Manage Companies](#) [Add Product through CSV](#)

Product SKU

Product Type ☒ Tablet ☐ Syrup ☐ Other

Product Name

Description

Strength

Barcode number [Generate](#)

Expiry Period

Inventory Units ☒ InStock

Remarks

Generic [Add New Generic](#) [Add -- Cancel](#)

Category [Add New Category](#) [Add -- Cancel](#)

Company [Add New Company](#) [Add -- Cancel](#)

Package

Price

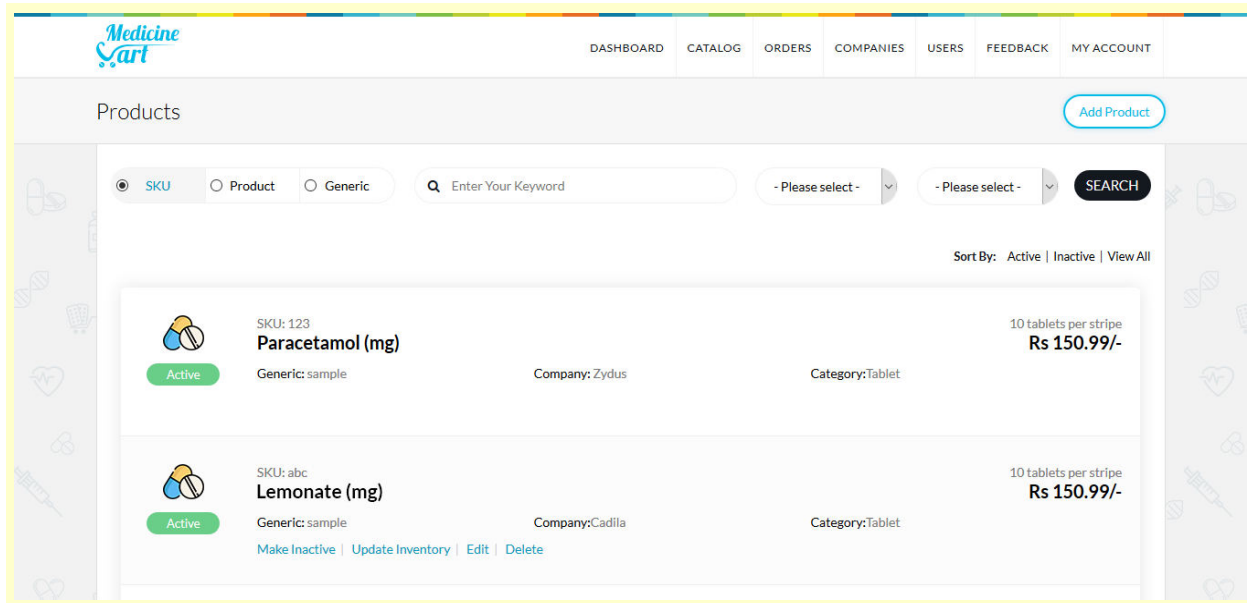
ADD PRODUCT

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Products Listing:

When store manager adds/updates their stock, the change reflects in products listing, where they can see all products either active or inactive in their store.

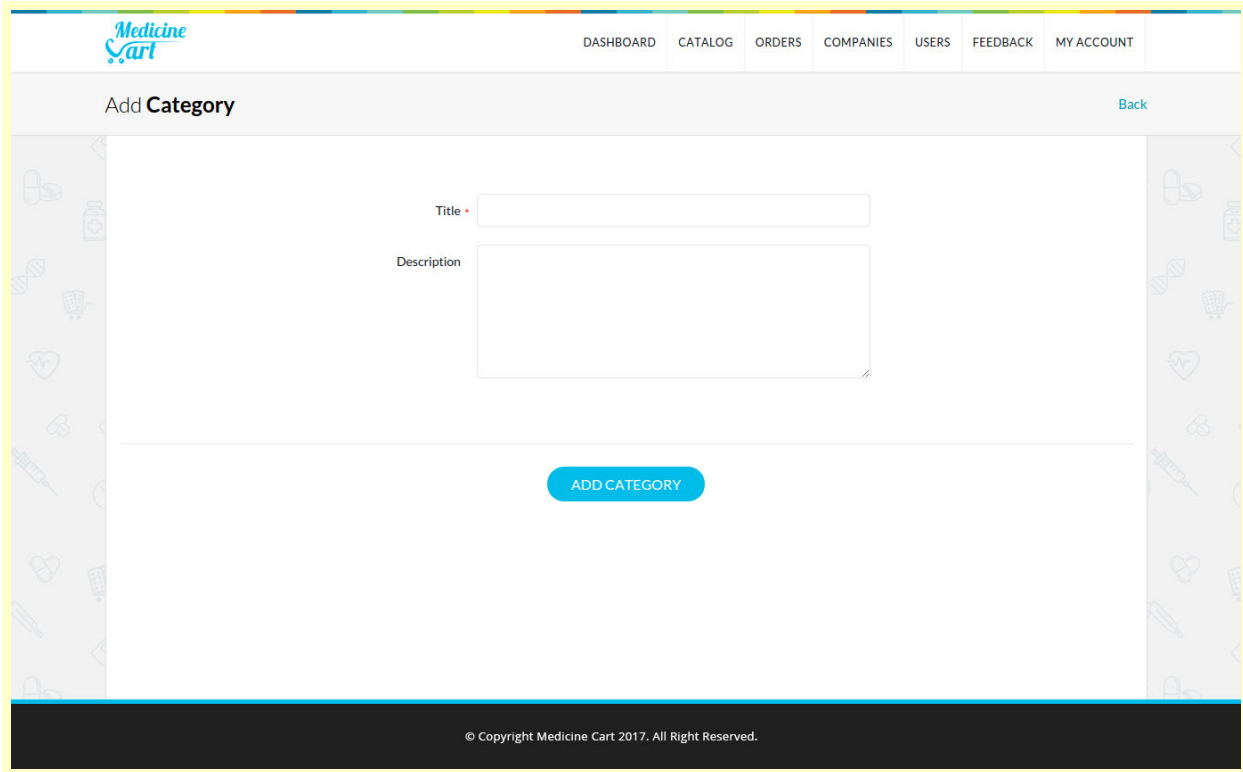
They can also filter products list via search and other filtering options.



Add Category:

Store managers can also add category for their products. For example, Anti-viral drugs, Anti-bacterial medicines etc.

Category title is mandatory but description is optional.



The screenshot shows the 'Add Category' form in the Medicine Cart application. The form is titled 'Add Category' and has a 'Back' link in the top right corner. The form contains two input fields: 'Title' (required, indicated by a red asterisk) and 'Description' (optional). Below the input fields is a blue 'ADD CATEGORY' button. The form is set against a background with medical icons. The top navigation bar includes links for DASHBOARD, CATALOG, ORDERS, COMPANIES, USERS, FEEDBACK, and MY ACCOUNT. The footer contains the copyright notice: '© Copyright Medicine Cart 2017. All Right Reserved.'

Category Listing:

When store manager adds/updates their category list, the change reflects in category listing, where they can see all categories either active or inactive in their store.

They can also filter categories list via search options.

Store manager can change the category status to active or inactive by clicking on **'Make Inactive'** or **'Make Active'** link.

They can also browse all products from particular category by clicking on **'View Medicines'** link.

And every category has its own soft delete link.

Note: All action links are AJAX callable links.

The screenshot displays the 'Categories' management interface. At the top, there's a navigation bar with links to Dashboard, Catalog, Orders, Companies, Users, Feedback, and My Account. Below this, the 'Categories' section has an 'Add Category' button and a search bar. The main content area features a table with the following data:

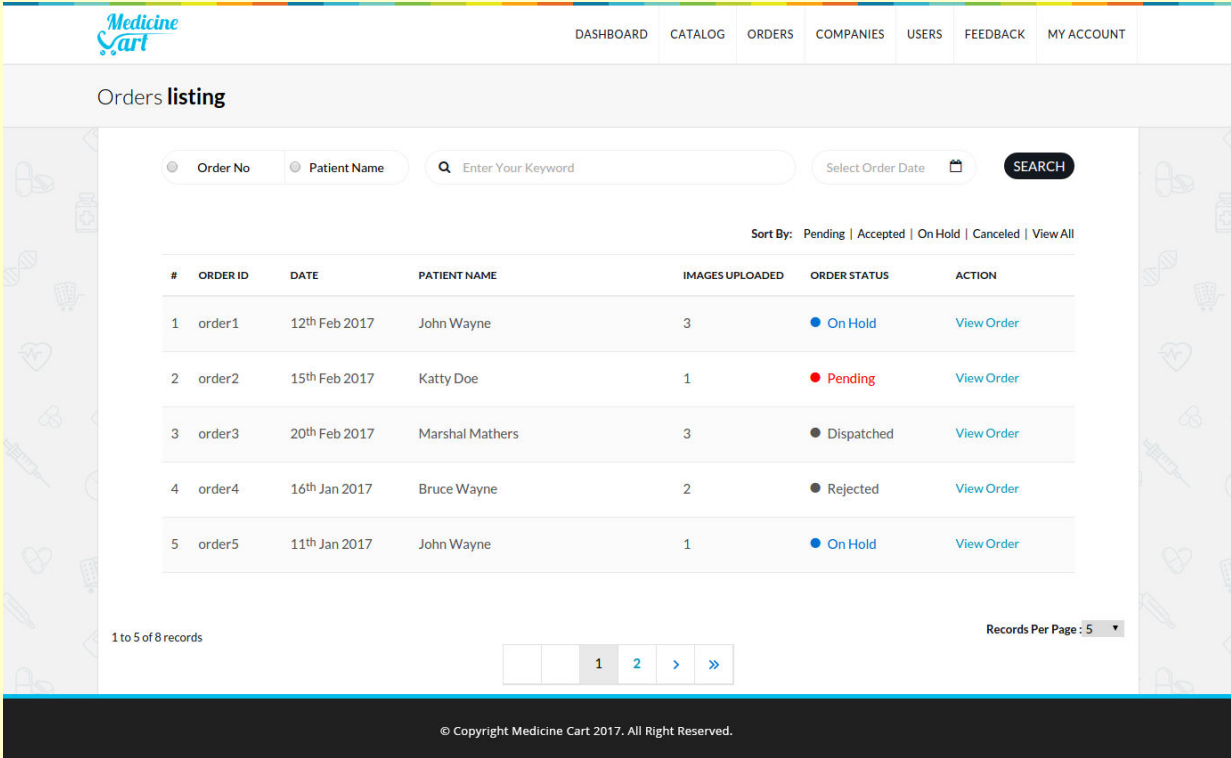
#	TITLE	DESCRIPTION	STATUS	ACTION
1	Anti-bacterial	—	Make Inactive	View Medicines Edit Delete
2	Anti-tuberculosis	—	Make Inactive	View Medicines Edit Delete
3	Gastrointestinal	—	Make Inactive	View Medicines Edit Delete
4	Immunologicals	—	Make Inactive	View Medicines Edit Delete
5	Anti-viral drugs	—	Make Inactive	View Medicines Edit Delete

Below the table, there's a pagination control showing '1 to 5 of 10 records' and a 'Records Per Page' dropdown set to 5. The footer contains the copyright notice: '© Copyright Medicine Cart 2017. All Right Reserved.'

Orders Listing:

When end-user places an order from mobile application, store manager can see that order in orders listing page in store panel, where they can view order as well as can manage order's status. For example, they can reject an order is prescription images are missing or not readable.

Store manager can search and filter orders via search and filtering options.



Medicine Cart DASHBOARD CATALOG ORDERS COMPANIES USERS FEEDBACK MY ACCOUNT

Orders listing

Order No Patient Name Q Enter Your Keyword Select Order Date SEARCH

Sort By: Pending | Accepted | On Hold | Canceled | View All

#	ORDER ID	DATE	PATIENT NAME	IMAGES UPLOADED	ORDER STATUS	ACTION
1	order1	12 th Feb 2017	John Wayne	3	● On Hold	View Order
2	order2	15 th Feb 2017	Katty Doe	1	● Pending	View Order
3	order3	20 th Feb 2017	Marshal Mathers	3	● Dispatched	View Order
4	order4	16 th Jan 2017	Bruce Wayne	2	● Rejected	View Order
5	order5	11 th Jan 2017	John Wayne	1	● On Hold	View Order

1 to 5 of 8 records

Records Per Page: 5

1 2 > >>

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Order Listing by Single User:

Store owner can also view list of orders for particular single user. For example, following is a list of orders placed by **'Nikul Lakhani'**

He has ordered multiple items for their family members, which are shown in the following figure with column name **'Patient Name'**.

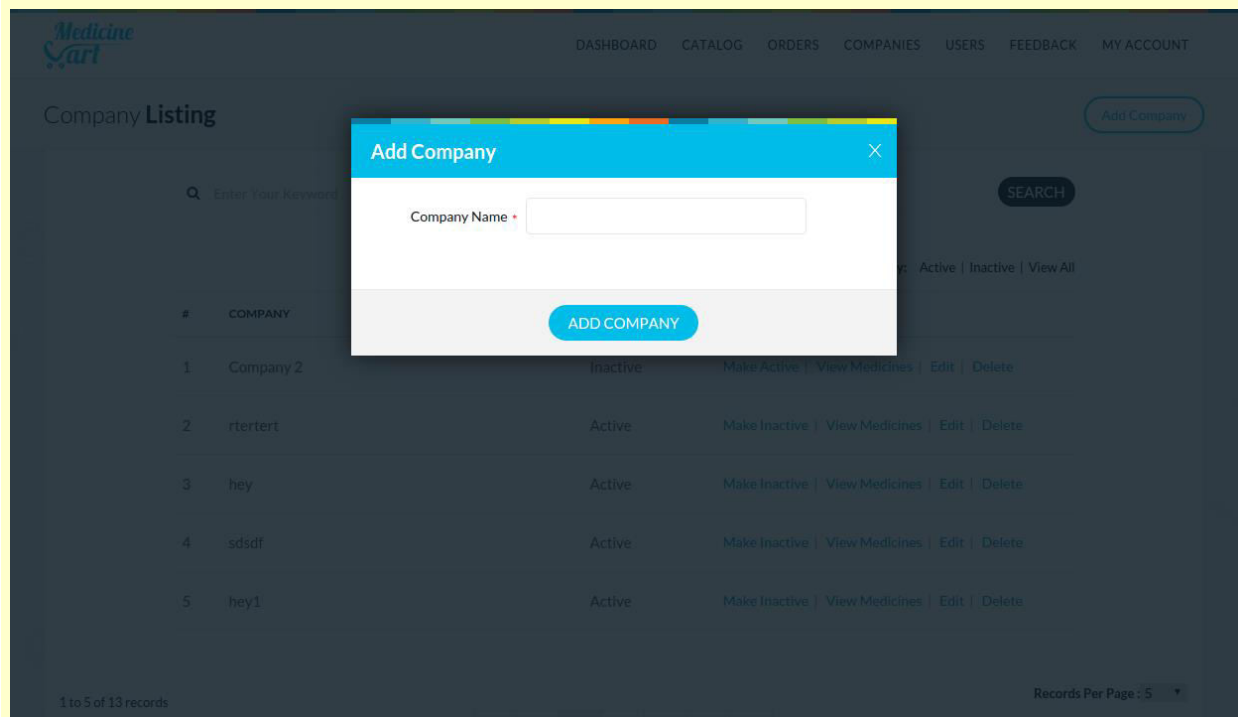
#	ORDER ID	DATE	PATIENT NAME	IMAGES UPLOADED	ORDER STATUS	ACTION
1	order5	11 th Jan 2017	John Wayne	1	● On Hold	View Order
2	order8	27 th Aug 2015	John Wayne	2	● Dispatched	View Order
3	order3	20 th Feb 2017	Marshal Mathers	3	● Dispatched	View Order
4	order7	20 th Sep 2016	Marshal Mathers	2	● Canceled	View Order
5	order6	12 th Apr 2017	Katty Doe	1	● Accepted	View Order

1 to 5 of 6 records

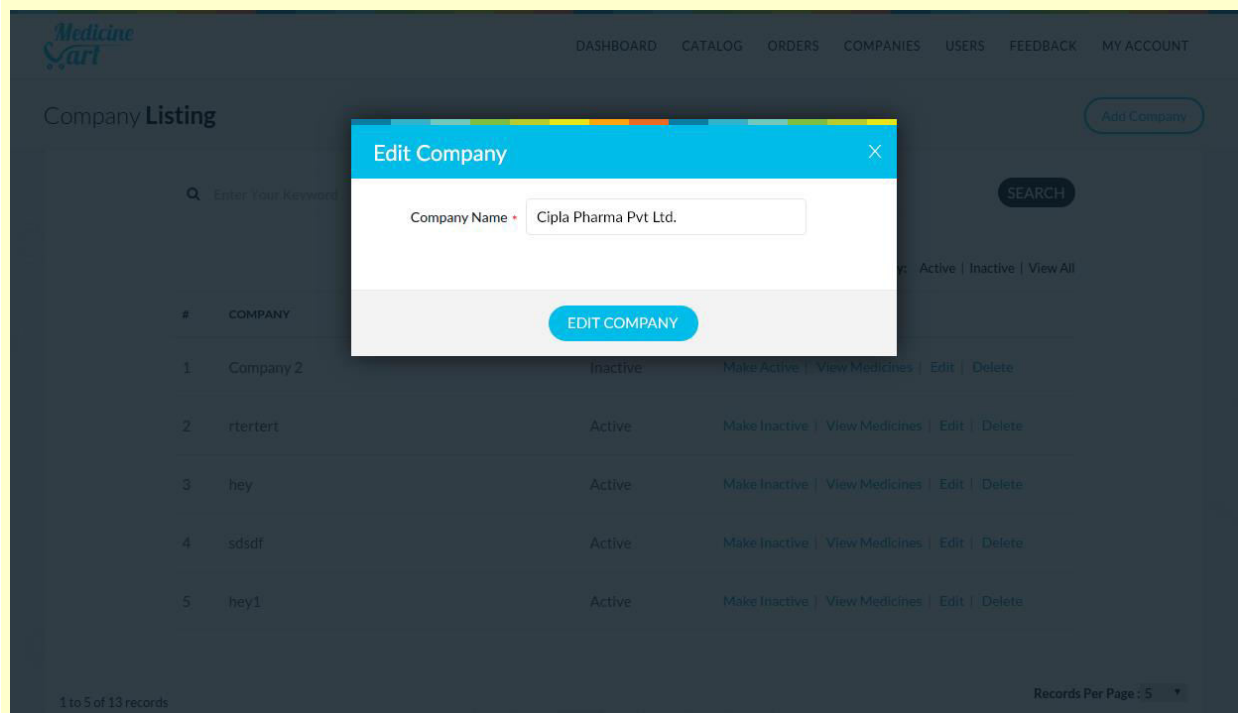
Records Per Page: 5

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Add New Company:



Edit Company:



Company Listing:

All products in store are from various companies, so store managers can add, edit and list out companies in store panel.

Notes: All action links are AJAX callable links.

The screenshot displays the 'Company Listing' interface in the Medicine Cart application. At the top, there is a navigation bar with links to Dashboard, Catalog, Orders, Companies, Users, Feedback, and My Account. Below this, the 'Company Listing' section features a search bar and an 'Add Company' button. A table lists the current companies, with columns for ID, Company Name, Status, and Actions. The table shows 5 records, with the first 5 displayed. The status of each company is either 'Inactive' or 'Active'. The actions for each company are 'Make Active' or 'Make Inactive', 'View Medicines', 'Edit', and 'Delete'. The page also includes a 'Sort By' dropdown and pagination controls at the bottom.

#	COMPANY	STATUS	ACTION
1	3M Pharmaceuticals	Inactive	Make Active View Medicines Edit Delete
2	Abbott Laboratories	Active	Make Inactive View Medicines Edit Delete
3	Acadia Therapeutics	Active	Make Inactive View Medicines Edit Delete
4	Cipla Pharma Pvt Ltd.	Active	Make Inactive View Medicines Edit Delete
5	Adcock Ingram	Active	Make Inactive View Medicines Edit Delete

1 to 5 of 13 records

Records Per Page: 5

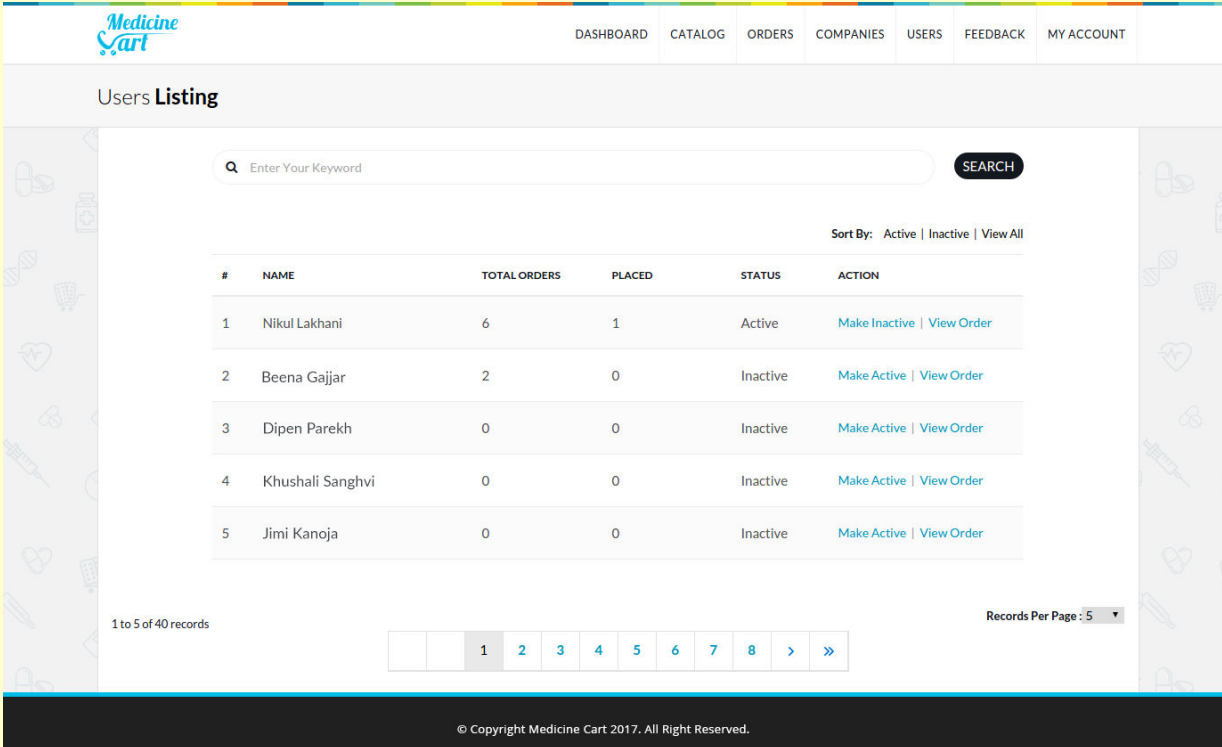
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User Listing:

This page is only accessible by admin; store managers are not able to view this page.

Admin can navigate to the order listing page for particular user by clicking on **'View Order'** link.

Admin can also change the status of the user; either **'active'** or **'inactive'**, where **'inactive'** users are not able to login into application.



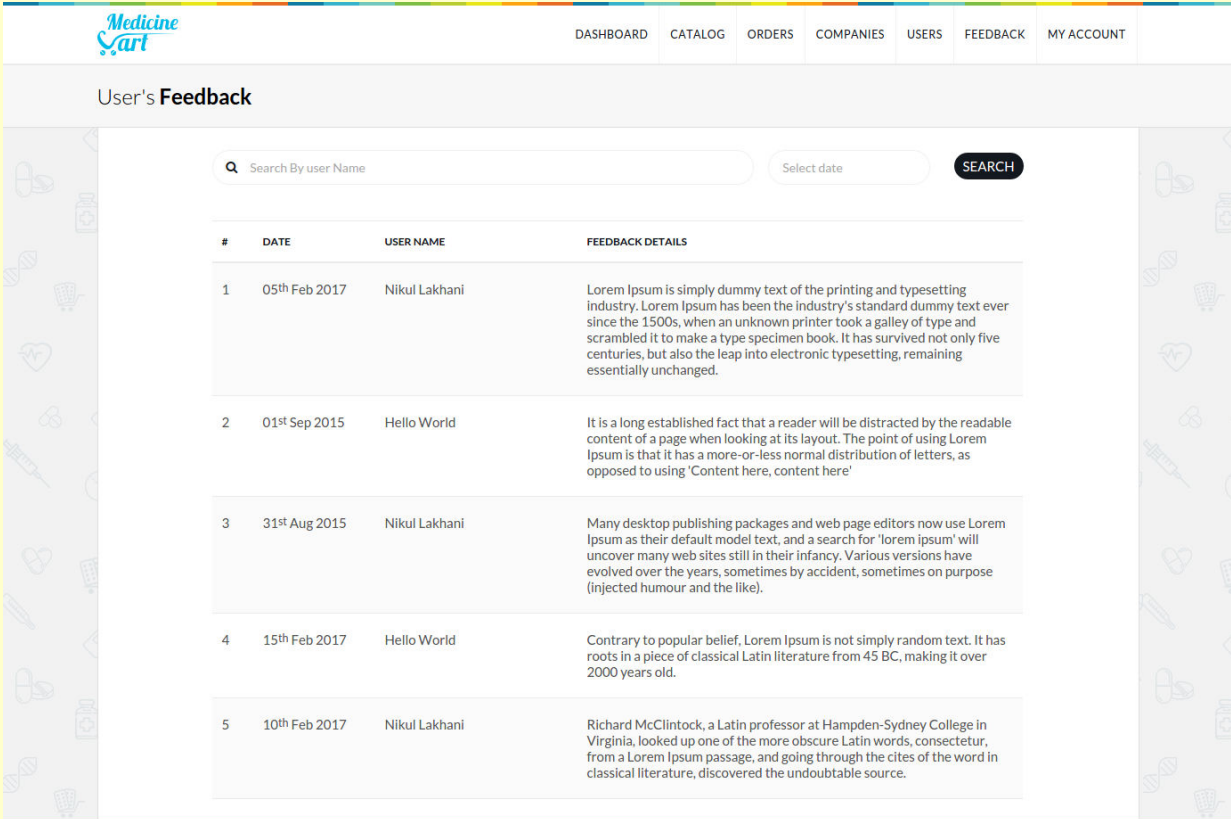
The screenshot displays the 'Users Listing' page in the Medicine Cart application. The page features a navigation bar with links to DASHBOARD, CATALOG, ORDERS, COMPANIES, USERS, FEEDBACK, and MY ACCOUNT. Below the navigation bar, the 'Users Listing' section includes a search bar with the placeholder 'Enter Your Keyword' and a 'SEARCH' button. A 'Sort By' dropdown menu is set to 'Active', with options for 'Active', 'Inactive', and 'View All'. The main content is a table with the following columns: #, NAME, TOTAL ORDERS, PLACED, STATUS, and ACTION. The table lists 5 users, with the first user, Nikul Lakhani, being 'Active' and the others being 'Inactive'. Each user has links for 'Make Inactive', 'Make Active', and 'View Order'. At the bottom of the table, there is a pagination control showing '1 to 5 of 40 records' and a 'Records Per Page' dropdown set to 5. The footer of the page contains the copyright notice: '© Copyright Medicine Cart 2017. All Right Reserved.'

#	NAME	TOTAL ORDERS	PLACED	STATUS	ACTION
1	Nikul Lakhani	6	1	Active	Make Inactive View Order
2	Beena Gajjar	2	0	Inactive	Make Active View Order
3	Dipen Parekh	0	0	Inactive	Make Active View Order
4	Khushali Sanghvi	0	0	Inactive	Make Active View Order
5	Jimi Kanoja	0	0	Inactive	Make Active View Order

Feedback Listing:

When end-user gives feedback from mobile application, it shows in feedback listing page of admin panel.

This page is also not accessible by any store managers.



The screenshot shows the 'User's Feedback' page in the Medicine Cart admin panel. The page has a navigation bar with links: DASHBOARD, CATALOG, ORDERS, COMPANIES, USERS, FEEDBACK, and MY ACCOUNT. The main content area has a search bar with the text 'Search By user Name' and a 'Select date' dropdown. Below the search bar is a table with 5 feedback entries.

#	DATE	USER NAME	FEEDBACK DETAILS
1	05th Feb 2017	Nikul Lakhani	Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged.
2	01st Sep 2015	Hello World	It is a long established fact that a reader will be distracted by the readable content of a page when looking at its layout. The point of using Lorem Ipsum is that it has a more-or-less normal distribution of letters, as opposed to using 'Content here, content here'.
3	31st Aug 2015	Nikul Lakhani	Many desktop publishing packages and web page editors now use Lorem Ipsum as their default model text, and a search for 'lorem ipsum' will uncover many web sites still in their infancy. Various versions have evolved over the years, sometimes by accident, sometimes on purpose (injected humour and the like).
4	15th Feb 2017	Hello World	Contrary to popular belief, Lorem Ipsum is not simply random text. It has roots in a piece of classical Latin literature from 45 BC, making it over 2000 years old.
5	10th Feb 2017	Nikul Lakhani	Richard McClintock, a Latin professor at Hampden-Sydney College in Virginia, looked up one of the more obscure Latin words, consectetur, from a Lorem Ipsum passage, and going through the cites of the word in classical literature, discovered the undoubtable source.

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Store Configuration Page:

Every store managers have their own configuration page, where they can adjust their all settings related to their online store.

They can adjust time zone based on their time.

Store manager can allow or disallow tax on their products, for that they have a multiple options like applying tax on **'Per Order'** or **'Per Product'**.

As well as they can also make their agency as a private, so nobody can see their products in mobile application.

Medicine Cart

DASHBOARD CATALOG ORDERS COMPANIES USERS FEEDBACK MY ACCOUNT

Store Configuration

Set Your Store Timezone: Africa/Asmara

Set Your Store Currency: Pound

Do you wish to apply taxes on your orders? ☒ Yes ☐ No

How do you wish to apply taxes? ☒ Per Order ☐ Per Product

TITLE	APPLICABLE OVER	TYPE	VALUE	ACTION
VAT	On Order Amount	Fixed Amount	5000.00	-
hey two	On Order Amount	Charge in Percentag	7.50	-
heyyyyy	On Order Amount	Fixed Amount	4500.00	- +

Do you wish to keep your Agency as Private? ☒ Yes ☐ No

Private agency will not be visible to the retailers.
To check the agency details retailer Requires to enter the Agency
Pin to Access its catalog.

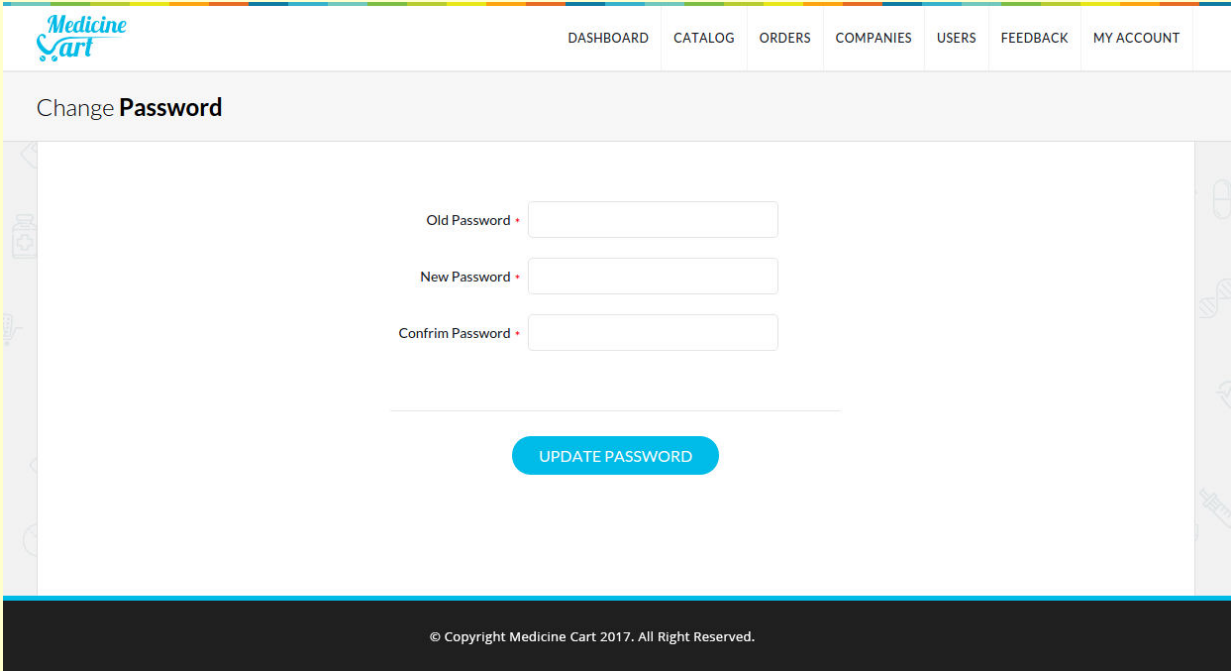
....

SAVE CONFIGURATION

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Change Password:

Store manager or admin can change their password from this page. End-user can change their password from mobile application; if they have signed up as a **normal user** rather than '**Login with Facebook**' or '**Login with Google+**'.



Medicine Cart

DASHBOARD CATALOG ORDERS COMPANIES USERS FEEDBACK MY ACCOUNT

Change Password

Old Password *

New Password *

Confrim Password *

UPDATE PASSWORD

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Chapter – 8 Testing

8.1 Testing Plan

The Testing Process:

We have tested the software process activates like design, implementation and requirement engineering. As design errors are costlier to repair, once the system has started to operate it is therefore quite obvious to repair them all at the initial stage of the system.

Requirement Traceability:

As most interested portion in the system meeting its requirements, therefore testing should be planned so that all requirements are individually tested, we have checked the output of certain combinations of inputs which gives desirable output or not. Strictly going alone, our requirements specifications gave us the path to get desirable result for system users.

Tested Items:

Our test items were like, validation of each and every field when user enters the data. The user is not allowed to enter incorrect data and also he is not allowed to leave the text views empty. The mandatory fields which were the necessary fields were tested to contain data and not empty. Places where numeric or alphanumeric characters were required, testing was done to see that no data other than required was entered.

Testing Schedule:

We have tested each module Back to Back so that errors and omissions can be found as early as possible. Once the system has been developed fully we tested it on other machines by deploying it on various machines.

General Plan for Testing:

The Application is tested using Bottom up testing strategy.

- Testing of each rest service with standard inputs.
- Testing of each individual class files.
- Testing of each individual user interface layout file.
- Module wise testing (all sub modules) while code developed.
- Integration testing of system after integration of individual modules.
- Security testing.
- User level testing.

8.2 Testing Strategy

Testing strategy is a general approach to the testing process rather than method of devising particular system or components test. Different testing strategies may be adopted depending on the type of system to be tested and the develop process used. So considering functional oriented nature of this software we adopted mixture of following strategies:

1. A detect found helps in the process of making the software reliable.
2. Even if the defects found are not corrected, testing gives an idea as to how reliable the software is.
3. Over time, the record of defects found reveals the most common kinds of defects is, which can be used for developing appropriate preventive measures such as training, proper design and reviewing.

The testing sub process includes the following activities in a phase dependent manner.

- Create test plans.
- Create test specifications.
- Review test plans and test specifications.
- Conduct test according to the test specifications and log the defects.
- Fix defects, if any.
- When defects are fixed, continue from activity.

8.3 Testing Methods

The development process repeats the testing of sub-process a number of times for the following phases:

Unit Testing:

Unit testing focuses verification effort on the smallest unit of software design the software component or module. In this type of testing module are tested individually and verified whether accurate output was made available or not.

Integrated Testing:

When unit testing was over, all the modules were integrated one by one and tested as a whole. It might be possible that all modules may work individually, but they may not work when put together. Data can be lost across the interface, one module can have an advertise effect on other sub function of another. Global data structure can present problem. So any system has to be tested this way so that the final output is the desired one. Also common functions throughout the system were taken and formed into a class so that they could be accessed from the same place without creating any ambiguity.

Validation Testing:

After the integration testing software is completely assembled as a package, interfacing errors have been uncovered and corrected, validation testing begins. Validation testing can be defined as Validation succeeds when the software function in a manner that can be reasonably accepted by the client.

Storage Testing:

The database of the system has to be stored on the hard disk. So the storage capacity of the hard disk should be enough to store all data required for the efficient running of the system.

System Testing:

Any software is only one element of a larger computer based system. Ultimately software is incorporated with our system elements like hardware, people, information and series of system integration and validation tests are conducted.

System testing is actually a series of different test whose primary purpose is to fully exercise the computer based system. A necessary check to be performed was that of the new system being accepted by the older windows' application. The data is not being misplaced when both the systems exist.

Chapter – 9 Limitations & Future Enhancements

9.1 Limitations

- Website is not available so user must have to place order from mobile application either android or iOS.
- User can only pay via Cash on Delivery.
- SMS alert is not available.
- User must have to login in order to place new order.

9.2 Future Enhancements

- SMS alert will be available so user will receive notifications when their order's status is changed.
- Messaging facilities between buyers and sellers.
- User can also place order from website, instead of only mobile applications.

Chapter – 10 Bibliography

- <http://stackoverflow.com/>
- <http://php.net/>
- <https://www.google.co.in/>