

# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

“Jnana Sangama”, BELAGAVI – 590018



## A MINI PROJECT REPORT

ON

### “PHARMACY MANAGEMENT SYSTEM”

Submitted in partial fulfillment of requirements for the *course*  
**DBMS Laboratory with Mini Project [18CSL58]** of *Fifth Semester*  
of *Bachelor of Engineering in Computer Science & Engineering*  
during the academic year 2021-22.

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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE**

Belawadi, S.R. Patna ( T ), Mandya ( D ) – 571477.

2021 - 2022

## MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE

Belawadi, S.R. Patna ( T ), Mandya ( D ) – 571477.

### DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



### CERTIFICATE

This is to certify that the mini project work entitled “**PHARMACY MANGEMENT SYSTEM**” is a bonafide work carried out by **Karan.M.N 4MH19CS037** and **K.M.Chaithrashree 4MH18CS039** in partial fulfillment for the **DBMS Laboratory with Mini Project (18CSL58)** prescribed by the Visvesvaraya Technological University, Belagavi during the year 2021-2022 for the fifth semester B.E in Computer Science and Engineering. The mini project report has been approved as it satisfies the academic requirements.

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Professor & Head, Dept. of CS&E

MIT Mysore

Name of the Examiners	Signature with date
1.....	.....
2.....	.....

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## **ABSTRACT**

**This report discusses the result of the work done in development of “Pharmacy Management system” by using php as platform and MySQL 2008 as the tool for database, the Xampp server is used to run the php code in Apache server.**

**The “Pharmacy Management System” has been developed to prevailing in the aid in the management and operation of the pharmacy..This software is used to eliminate the hardships faced by the existing system. This system is designed for the particular need of the medical store to carry out the operations in smooth and effective manner.**

**Our system proposes multiple functionalities such as logging to medical inventory, record keeping, sales management as well as managing the drug stock and**

**Information of expired medicines**

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## CHAPTER 01

### INTRODUCTION

#### 1.1 AIM OF THE PROJECT:

The main objective and aim of this project is to develop an Pharmacy Management System using php and to implement and the aid in the management and operation of the pharmacy in the design of the mini-project studied in theory. The mini-project also emphasis to provide user

As in medical stores for friendly web based Pharmacy Mangement System that is easy to use and develop. Finally, this project focuses to manage sales, record , stock , expired medicines in medical stores

#### 1.1 OVERVIEW OF THE PROJECT:

This report discusses the result of the work done in development of “Pharmacy Management system”by using brackets as php platform and MySQL 2008 as the tool for database, the Xampp server is used to run the php code in Apache server.

The “Pharmacy Management System” has been developed to prevailing in the aid in the management and operation of the pharmacy..This software is used to eliminate the hardships faced by the existing system. This system is designed for the particular need of the medical store to carry out the operations in smooth and effective manner.

Our system proposes multiple functionalities such as logging to medical inventory, record keeping, sales management as well as managing the drug stock and

Information of expired medicines

## **1.2 OUTCOME OF THE PROJECT:**

**This software help in effectively management of the pharmaceutical store or shop.It provide the statistics about medicine or drugs which are in stocks which data can also be updated and edited.It works as per the requirement of the user and have options accordingly.It allow user to enter manufacturing as well as the expiry date of medicine placing in stock and for sales transaction.This software also have ability to print the bill and invoices etc.**

## **1.3 SOFTWARE REQUIREMENTS:**

- Operating system: Windows operating system 11**
- Data base: Microsoft SQL Server (2008)**
- Server: Xampp Server**
  - Front End: HTML and CSS**  
**Visual studio code(2021)**
- Back End: PHP and MYSQL**



## CHAPTER 02

## DESIGN

## 2.1 SCHEMA DIAGRAM

## CART

cart_id	item_id	cart_qty	cart_stock_id	user_id	cart_uniqid
---------	---------	----------	---------------	---------	-------------

## EXPIRED

exp_id	exp_itemName	exp_itemPrice	exp_itemQty	exp_expiredDate
--------	--------------	---------------	-------------	-----------------

## ITEM

item_id	item_name	item_price	item_type_id	item_code	item_brand	item_grams
---------	-----------	------------	--------------	-----------	------------	------------

## ITEM TYPE

item_type_id	item_type_desc
--------------	----------------

## SALES

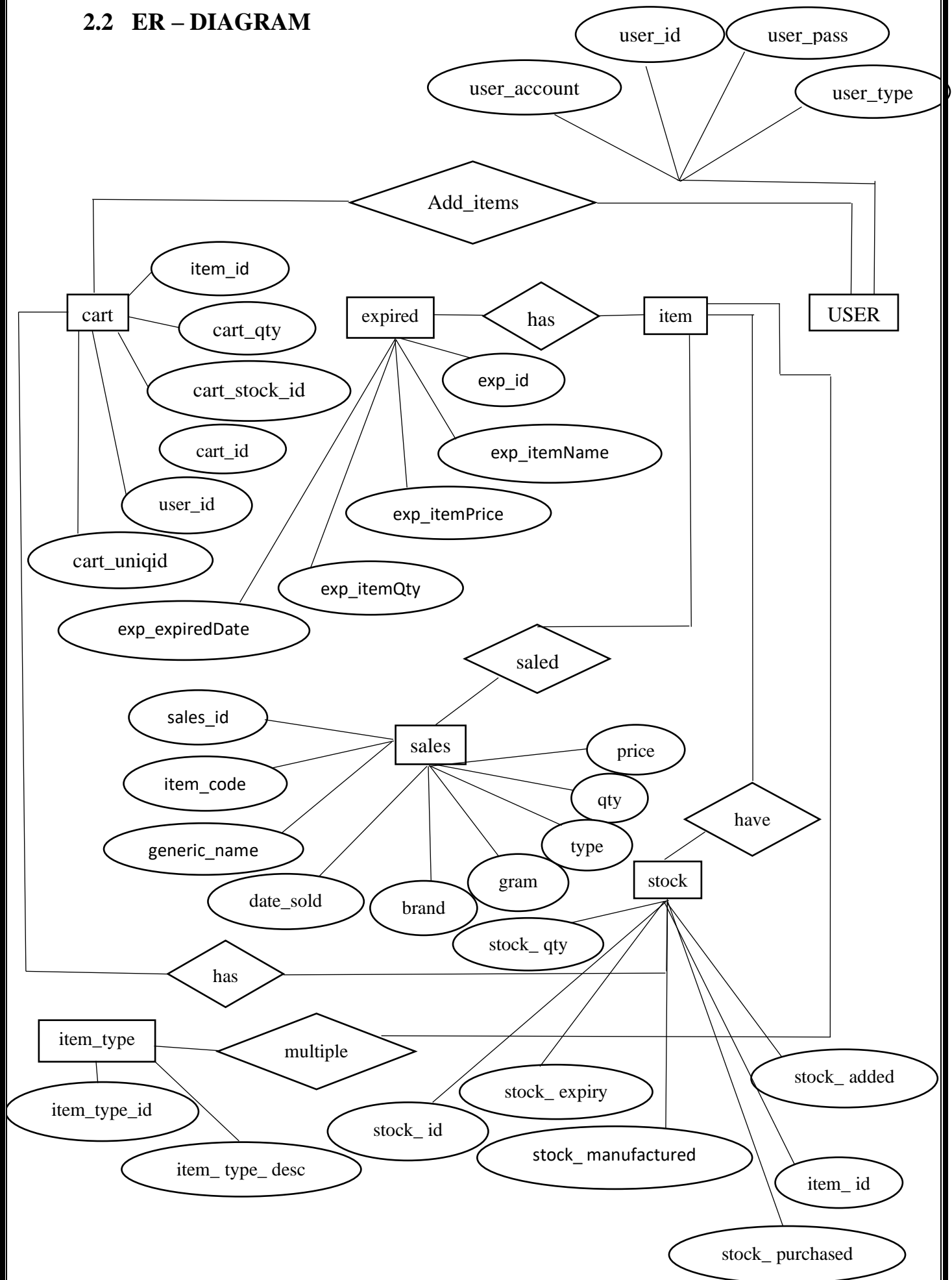
sales_id	item_code	generic_name	brand	gram	type	qty	price	date_sold
----------	-----------	--------------	-------	------	------	-----	-------	-----------

## STOCK

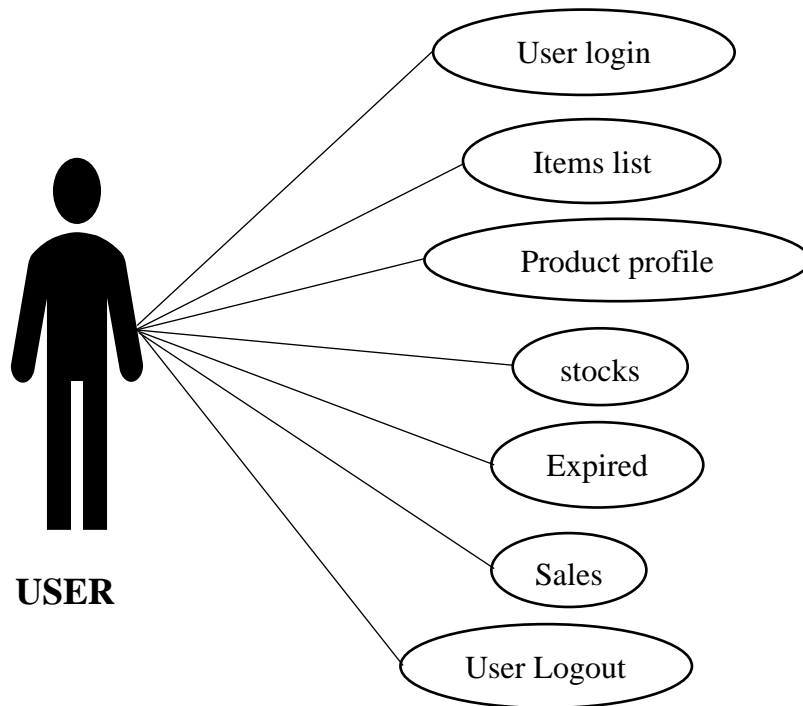
stock_id	item_id	stock_qty	stock_expiry	stock_added	stock_manufactured	stock_purchased
----------	---------	-----------	--------------	-------------	--------------------	-----------------

## USER

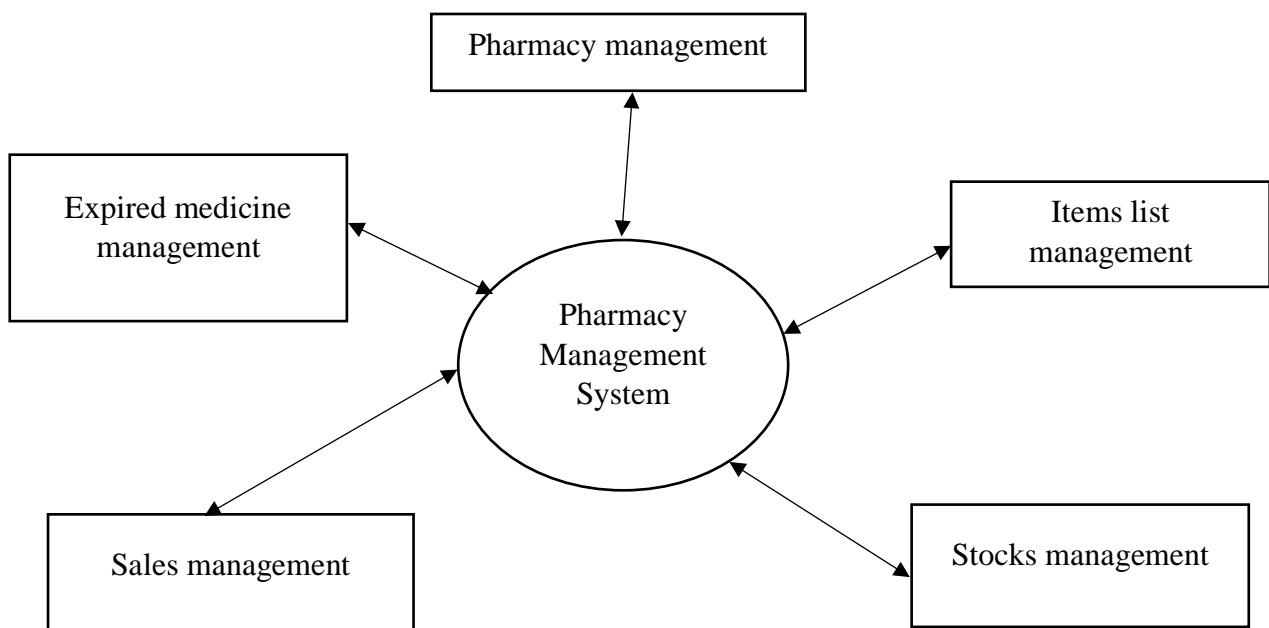
user_id	user_account	user_pass	user_type
---------	--------------	-----------	-----------



## 2.3 USE CASE DIAGRAM

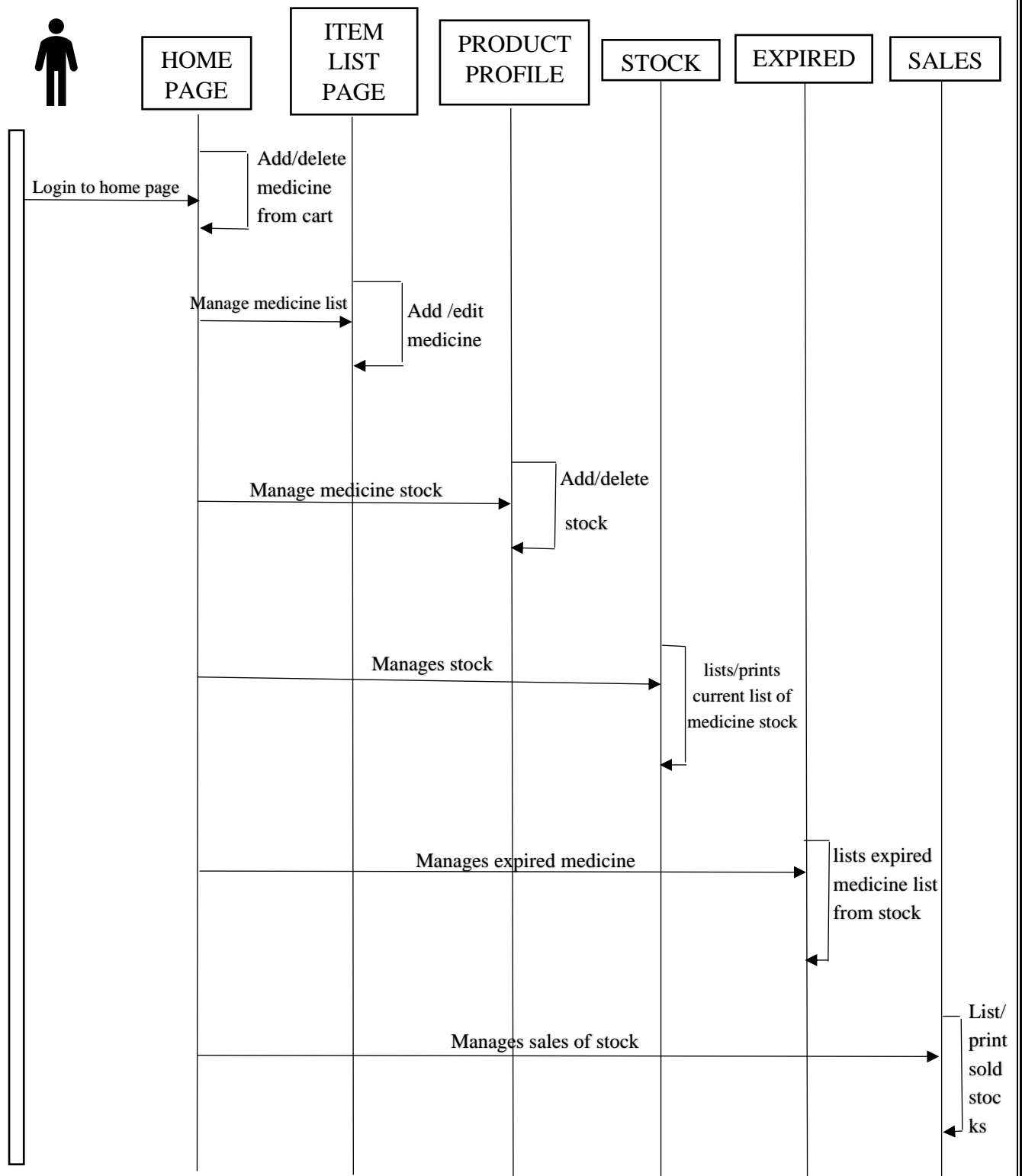


## 2.4 DATA FLOW DIAGRAM



## 2.5 SEQUENCE DIAGRAM

USER



## CHAPTER 03

## IMPLEMENTATION

## 3.1 DESCRIPTION OF TABLES

- Cart:

Field	Type	Null	Key	Default	Extra
cart_id	int	NO		NULL	
item_id	int	NO		NULL	
cart_qty	int	NO		NULL	
cart_stock_id	int	NO		NULL	
user_id	int	NO		NULL	
cart_uniqid	varchar(35)	NO		NULL	

- Expired:

Field	Type	Null	Key	Default	Extra
exp_id	Int	NO		NULL	
exp_itemName	varchar(50)	NO		NULL	
exp_itemPrice	float	NO		NULL	
exp_itemQty	int	NO		NULL	
exp_expiredDate	date	NO		NULL	

- Item

Field	Type	Null	Key	Default	Extra
item_id	int	NO		NULL	
item_name	varchar(50)	NO		NULL	
item_price	double	NO		NULL	
item_type_id	int	NO		NULL	
item_code	varchar(35)	NO		NULL	
item_brand	varchar(50)	NO		NULL	
item_grams	varchar(20)	NO		NULL	

- Item Type

Field	Type	Null	Key	Default	Extra
item_type_id	int	NO		NULL	
item_type_desc	varchar(50)	NO		NULL	

- Sales

Field	Type	Null	Key	Default	Extra
sales_id	int	NO		NULL	
item_code	varchar(35)	NO		NULL	
generic_name	varchar(35)	NO		NULL	
brand	varchar(35)	NO		NULL	
gram	varchar(35)	NO		NULL	
type	varchar(35)	NO		NULL	
qty	int	NO		NULL	
price	float	NO		NULL	
date_sold	timestamp	NO		CURRENT_TIMESTAMP	DEFAULT_GENERATED on update CURRENT_TIMESTAMP

• Stock

Field	Type	Null	Key	Default	Extra
stock_id	int	NO		NULL	
item_id	int	NO		NULL	
stock_qty	int	NO		NULL	
stock_expiry	date	NO		NULL	
stock_added	timestamp	NO		CURRENT_TIMESTAMP	DEFAULT_GENERATED on updated CURRENT_TIMESTAMP
stock_manufactured	date	NO		NULL	
stock_purchase_d	date	NO		NULL	

• User

Field	Type	Null	Key	Default	Extra
user_id	int	NO		NULL	
user_account	varchar(50)	NO		NULL	
user_pass	varchar(50)	NO		NULL	
user_type	int	NO		NULL	

### 3.2 CONSTRAINTS ON TABLES:

1. In cart , cart\_ibfk\_1 is constraint, item\_id is foreign key  
cart\_ibfk\_2 is constraint ,user\_id is foreign key
2. In item, item\_ibfk\_1 is constraint, item\_type\_id is foreign key
3. In stock, stock\_ibfk\_1 is constraint, item\_id is foreign key

### 3.3 BACK END IMPLEMENTATIONS

#### 3.3.1 CART

```
<?php
require_once('../database/Database.php');
require_once('../interface/iCart.php');
class Cart extends Database implements iCart {

    public function add_toCart($item_id, $qty, $stock_id, $user_id, $uniqid)
    {
        $sql = "INSERT INTO cart(item_id, cart_qty, cart_stock_id, user_id,
cart_uniqid)
                VALUES(?,?,?,?);";
        return $this->insertRow($sql, [$item_id, $qty, $stock_id, $user_id,
$uniqid]);
    }//end add_toCart

    public function all_cartDatas($user_id)
    {
        $sql = "SELECT *
                FROM cart c
                INNER JOIN item i
                ON c.item_id = i.item_id
                WHERE user_id = ?
                ORDER BY cart_id ASC";
        return $this->getRows($sql, [$user_id]);
    }//end all_cartDatas

    public function delCart($cart_id)
    {
        $sql = "DELETE FROM cart
                WHERE cart_id = ?";
        return $this->deleteRow($sql, [$cart_id]);
    }//end delCart
```



```

public function dellAllCart()
{
    $sql = "DELETE FROM cart";
    return $this->deleteRow($sql);
} //end dellAllCart

public function allCart()
{
    $sql = "SELECT *
            FROM cart c
            INNER JOIN item i
            ON c.item_id = i.item_id
            INNER JOIN stock s
            ON s.item_id = i.item_id
            INNER JOIN item_type it
            ON it.item_type_id = i.item_type_id
            ";
    return $this->getRows($sql);
} //end allCart
} //end class Cart

$cart = new Cart();
    
```

### 3.3.2 EXPIRED

```

<?php
require_once('../database/Database.php');
require_once('../interface/iExpired.php');
class Expired extends Database implements iExpired {

    public function add_expired($name, $price, $qty, $expiredDate)
    {
        $sql = "INSERT INTO expired(exp_itemName, exp_itemPrice,
exp_itemQty, exp_expiredDate)
                VALUES(?,?,?,?);";
        return $this->insertRow($sql, [$name, $price, $qty, $expiredDate]);
    } //end add_expired

    public function all_expired()
    {
        $sql = "SELECT *
                FROM expired";
        return $this->getRows($sql);
    } //end all_expired
} //end class
    
```

```
$expired = new Expired();
```

### 3.3.3 ITEM

```
<?php
require_once('../database/Database.php');
require_once('../interface/iItem.php');
class Item extends Database implements iItem {
    public function all_items()
    {
        $sql = "SELECT *
                FROM item i
                INNER JOIN item_type it
                ON i.item_type_id = it.item_type_id
                ORDER BY i.item_name ASC";

        return $this->getRows($sql);
    }//end all_items

    public function get_item($item_id)
    {
        $sql = "SELECT *
                FROM item
                WHERE item_id = ?";

        return $this->getRow($sql, [$item_id]);
    }//end edit_item

    public function add_item($iName, $iPrice, $type_id, $code, $brand, $grams)
    {
        $sql = "INSERT INTO item(item_name, item_price, item_type_id,
item_code, item_brand, item_grams)
                VALUES(?, ?, ?, ?, ?, ?)";

        return $this->insertRow($sql, [$iName, $iPrice, $type_id, $code,
$brand, $grams]);
    }//end add_item

    public function edit_item($item_id, $iName, $iPrice, $type_id, $code, $brand,
$grams)
    {
        $sql = "UPDATE item
                SET item_name = ?, item_price = ?, item_type_id = ?,
item_code = ?, item_brand = ?, item_grams = ?
                WHERE item_id = ?";

        return $this->updateRow($sql, [$iName, $iPrice, $type_id, $code,
$brand, $grams, $item_id]);
    }//end edit_item
```

```
}//end class Item
```

```
$item = new Item();
```

### 3.3.4 SALES

```
<?php
require_once('../database/Database.php');
require_once('../interface/iSales.php');
class Sales extends Database implements iSales {
    public function new_sales($code,$generic,$brand,$gram,$type,$qty,$price)
    {
        $sql = "INSERT INTO
sales(item_code,generic_name,brand,gram,type,qty,price)
VALUES(?,?,?,?,?,?,?);";
        return $this->insertRow($sql,
[$code,$generic,$brand,$gram,$type,$qty,$price]);
    }//end new_sales

    public function daily_sales($date)
    {
        $sql = "SELECT *
FROM sales
WHERE DATE(`date_sold`) = ?";
        return $this->getRows($sql, [$date]);
    }//end daily_sales
}//end class
$sales = new Sales();
```

### 3.3.5 STOCK

```
<?php
require_once('../database/Database.php');
require_once('../interface/iStock.php');
class Stock extends Database implements iStock {

    public function all_stockList()
    {
        $sql = "SELECT *
FROM stock s
INNER JOIN item i
ON s.item_id = i.item_id
INNER JOIN item_type it
ON i.item_type_id = it.item_type_id
WHERE s.stock_qty != ?
ORDER BY s.stock_added ASC";
```

```

        return $this->getRows($sql, [0]);
    }//end all_stockList

    public function get_stockList($stock_id)
    {
        $sql = "SELECT *
                FROM stock s
                INNER JOIN item i
                ON s.item_id = i.item_id
                WHERE s.stock_id = ?";
        return $this->getRow($sql, [$stock_id]);
    }//end get_stocklist

    public function del_stockList($stock_id)
    {
        $sql = "DELETE FROM stock
                WHERE stock_id = ?";
        return $this->deleteRow($sql, [$stock_id]);
    }//end del_stockList

    public function add_stock($item_id, $qty, $xDate, $manu, $purc)
    {
        $sql = "INSERT INTO stock(item_id, stock_qty, stock_expiry,
stock_manufactured, stock_purchased)
                VALUES(?,?,?,?)";
        // return true;
        return $this->insertRow($sql, [$item_id, $qty, $xDate, $manu, $purc]);
    }//end add_stock

    public function all_stockGroup()
    {
        $sql = "SELECT s.stock_id,i.item_id,i.item_name,
i.item_price,SUM(stock_qty) as qty
                FROM stock s
                INNER JOIN item i
                ON s.item_id = i.item_id
                GROUP BY s.item_id
                ORDER BY i.item_name ASC";
        return $this->getRows($sql);
    }//end all_stockGroup

    public function update_stockQty($stock_id, $stock_qty)
    {
        $sql = "UPDATE stock
                SET stock_qty = ?
                WHERE stock_id = ?";
    }

```

```

        return $this->updateRow($sql, [$stock_qty, $stock_id]);
    } //end update_stockQty

    public function get_stockQty($stock_id)
    {
        $sql = "SELECT *
                FROM stock
                WHERE stock_id = ?";
        return $this->getRow($sql, [$stock_id]);
    } //end get_stockQty

    public function add_fuck($item_id, $qty, $xDate, $manu, $purc)
    {
        $sql = "INSERT INTO stock(item_id, stock_qty, stock_expiry,
stock_manufactured, stock_purchased)
                VALUES(?,?,?,?);";
        return $this->insertRow($sql, [$item_id, $qty, $xDate, $manu, $purc]);
    } //end add_stock

} //end class Stock
$stock = new Stock();

```

### 3.3.6 USER

```

<?php
require_once('../database/Database.php');
require_once('../interface/iUser.php');
class User extends Database implements iUser {

    public function user_login($username, $password)
    {
        $sql = "SELECT *
                FROM user
                WHERE user_account = ?
                AND user_pass = ?
                ";
        return $this->getRow($sql, [$username, $password]);
    } //end login_user

} //en class User

$user = new User();

```

### 3.4 FRONT END IMPLEMENTATION

#### 3.4.1 INDEX

```
<!DOCTYPE html>
<html >
  <head>
    <meta charset="UTF-8">
    <title>Pharmacy Management System</title>
    <link rel="stylesheet" href="assets/css/style.css">
  </head>
  <body style="background: #262626;">
    <br/>
    <br/>
    <h1><center>Pharmacy Management System</h1></center>
    <div class="container">
      <div id="login-form">
        <h3>User Login</h3>
        <fieldset>
          <form id="form-login">
            <input type="text" autofocus id="un" placeholder="Username" required
autocomplete="off">
            <input type="password" id="up" placeholder="Password" required
autocomplete="off">
            <input type="submit" name="log" value="Login">
          </form>
        </fieldset>
      </div> <!-- end login-form -->
    </div>
    <script type="text/javascript" src="assets/js/jquery-1.12.3.js"></script>
    <script type="text/javascript" src="assets/js/bootstrap.min.js"></script>
    <script type="text/javascript" src="assets/js/regis.js"></script>
  </body>
</html>
```

#### 3.4.2 HOME

```
<?php
require_once('include/session.php');
?>
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1">
```

```

<meta name="description" content="">
<meta name="author" content="">
<title>Pharmacy Management System</title>
<!-- Bootstrap Core CSS -->
<link href="assets/css/bootstrap.min.css" rel="stylesheet">
<link rel="stylesheet" type="text/css" href="assets/css/bootstrap-
theme.min.css">
<!-- Custom CSS -->
<link href="assets/css/sb-admin.css" rel="stylesheet">
<!-- Morris Charts CSS -->
<link href="assets/css/plugins/morris.css" rel="stylesheet">
<!-- Custom Fonts -->
<link href="assets/font-awesome/css/font-awesome.min.css" rel="stylesheet"
type="text/css">
<link href="assets/css/dataTables.bootstrap.min.css" rel="stylesheet">
</head>
<body>
<div id="wrapper">
<!-- Navigation -->
<nav class="navbar navbar-inverse navbar-fixed-top" role="navigation">
<!-- Brand and toggle get grouped for better mobile display -->
<div class="navbar-header">
<button type="button" class="navbar-toggle" data-toggle="collapse"
data-target=".navbar-ex1-collapse">
<span class="sr-only">Toggle navigation</span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
</button>
<a class="navbar-brand" href="index.html">Pharmacy Management
System</a>
</div>
<!-- Top Menu Items -->
<ul class="nav navbar-right top-nav">
<li class="dropdown">
<a href="#" class="dropdown-toggle" data-toggle="dropdown"><i
class="fa fa-user"></i> Administrator <b class="caret"></b></a>
<ul class="dropdown-menu">
<li>
<a href="#"><i class="fa fa-fw fa-gear"></i> Settings</a>
</li>
<li class="divider"></li>
<li>
<a href="logout.php"><i class="fa fa-fw fa-power-off"></i>
Log Out</a>
</li>

```

```

        </ul>
    </li>
</ul>
<!-- Sidebar Menu Items - These collapse to the responsive navigation
menu on small screens -->
<div class="collapse navbar-collapse navbar-ex1-collapse">
    <ul class="nav navbar-nav side-nav">
        <li class="active">
            <a href="home.php"><span class="glyphicon glyphicon-home"
aria-hidden="true"></span></i> Home</a>
        </li>
        <li>
            <a href="item.php"><span class="glyphicon glyphicon-list" aria-
hidden="true"></span> Item List</a>
        </li>
        <li>
            <a href="product.php"><span class="glyphicon glyphicon-th-list"
aria-hidden="true"></span> Product Profile</a>
        </li>
        <li>
            <a href="stock.php"><span class="glyphicon glyphicon-book"
aria-hidden="true"></span> Stocks</a>
        </li>
        <li>
            <a href="expired.php"><span class="glyphicon glyphicon-
remove" aria-hidden="true"></span> Expired</a>
        </li>
        <li>
            <a href="sales.php"><span class="glyphicon glyphicon-record"
aria-hidden="true"></span> Sales</a>
        </li>
    </ul>
</div>
<!-- /.navbar-collapse -->
</nav>
<div id="page-wrapper">
    <div class="container-fluid">
        <!-- Page Heading -->
        <div class="row">
            <div class="col-lg-12">
                <h1 class="page-header">
                    Welcome <small>Administrator</small>
                </h1>
                <ol class="breadcrumb">
                    <li class="active">
                        <i class="fa fa-home"></i> Home

```



```

        </li>
    </ol>
</div>
</div>
<!-- /.row -->
<div id="order"></div>
</div>
<!-- /.container-fluid -->
</div>
<!-- /#page-wrapper -->
</div>
<!-- /#wrapper -->
<?php include_once('modal/to_cart.php'); ?>
<?php include_once('modal/confirmation.php'); ?>
<?php include_once('modal/add_new_item.php'); ?>
<?php include_once('modal/message.php'); ?>
    <script type="text/javascript" src="assets/js/jquery-3.1.1.min.js"></script>
    <script type="text/javascript" src="assets/js/jquery-1.12.3.js"></script>
    <script type="text/javascript" src="assets/js/bootstrap.min.js"></script>
    <script type="text/javascript"
src="assets/js/jquery.dataTables.min.js"></script>
    <script type="text/javascript"
src="assets/js/dataTables.bootstrap.min.js"></script>
    <script type="text/javascript" src="assets/js/regis.js"></script>
</body>
</html>

```

### 3.4.3 ITEM LIST

```

<?php require_once('include/session.php'); ?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <meta name="description" content="">
    <meta name="author" content="">
    <title>Pharmacy Management System</title>
    <!-- Bootstrap Core CSS -->
    <link href="assets/css/bootstrap.min.css" rel="stylesheet">
    <link rel="stylesheet" type="text/css" href="assets/css/bootstrap-
theme.min.css">
    <!-- Custom CSS -->
    <link href="assets/css/sb-admin.css" rel="stylesheet">
    <!-- Morris Charts CSS -->

```

```

<link href="assets/css/plugins/morris.css" rel="stylesheet">
<!-- Custom Fonts -->
<link href="assets/font-awesome/css/font-awesome.min.css" rel="stylesheet"
type="text/css">
<link href="assets/css/dataTables.bootstrap.min.css" rel="stylesheet">
</head>
<body>
<div id="wrapper">
<!-- Navigation -->
<nav class="navbar navbar-inverse navbar-fixed-top" role="navigation">
<!-- Brand and toggle get grouped for better mobile display -->
<div class="navbar-header">
<button type="button" class="navbar-toggle" data-toggle="collapse"
data-target=".navbar-ex1-collapse">
<span class="sr-only">Toggle navigation</span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
</button>
<a class="navbar-brand" href="index.html">Pharmacy Management
System</a>
</div>
<!-- Top Menu Items -->
<ul class="nav navbar-right top-nav">
<li class="dropdown">
<a href="#" class="dropdown-toggle" data-toggle="dropdown"><i
class="fa fa-user"></i> Administrator<b class="caret"></b></a>
<ul class="dropdown-menu">
<li>
<a href="#"><i class="fa fa-fw fa-gear"></i> Settings</a>
</li>
<li class="divider"></li>
<li>
<a href="logout.php"><i class="fa fa-fw fa-power-off"></i>
Log Out</a>
</li>
</ul>
</li>
</ul>
<!-- Sidebar Menu Items - These collapse to the responsive navigation
menu on small screens -->
<div class="collapse navbar-collapse navbar-ex1-collapse">
<ul class="nav navbar-nav side-nav">
<li>
<a href="home.php"><span class="glyphicon glyphicon-home"
aria-hidden="true"></span></i> Home</a>

```

```

        </li>
        <li class="active">
            <a href="item.php"><span class="glyphicon glyphicon-list" aria-
hidden="true"></span> Item List</a>
        </li>
        <li>
            <a href="product.php"><span class="glyphicon glyphicon-th-list"
aria-hidden="true"></span> Product Profile</a>
        </li>
        <li>
            <a href="stock.php"><span class="glyphicon glyphicon-book"
aria-hidden="true"></span> Stocks</a>
        </li>
        <li>
            <a href="expired.php"><span class="glyphicon glyphicon-
remove" aria-hidden="true"></span> Expired</a>
        </li>
    </ul>
</div>
<!-- /.navbar-collapse -->
</nav>

<div id="page-wrapper">

    <div class="container-fluid">

        <!-- Page Heading -->
        <div class="row">
            <div class="col-lg-12">
                <h1 class="page-header">
                </h1>
            </div>
        </div>
        <!-- /.row -->
        <button class="btn btn-default" id="add-new-item">Add New Item
            <span class="glyphicon glyphicon-plus-sign" aria-
hidden="true"></span>
        </button>
        <div id="all-item"></div>
    </div>
    <!-- /.container-fluid -->
</div>
<!-- /#page-wrapper -->
</div>
<!-- /#wrapper -->
<?php include_once('modal/add_new_item.php'); ?>

```

```
<?php include_once('modal/message.php'); ?>
<script type="text/javascript" src="assets/js/jquery-3.1.1.min.js"></script>
<script type="text/javascript" src="assets/js/jquery-1.12.3.js"></script>
<script type="text/javascript" src="assets/js/bootstrap.min.js"></script>
<script type="text/javascript" src="assets/js/jquery.dataTables.min.js"></script>
<script type="text/javascript"
src="assets/js/dataTables.bootstrap.min.js"></script>
<script type="text/javascript" src="assets/js/regis.js"></script>
</body>
</html>
```

### 3.4.4 PRODUCT PROFILE

```
<?php require_once('include/session.php'); ?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <meta name="description" content="">
    <meta name="author" content="">
    <title>Pharmacy Management System </title>
    <!-- Bootstrap Core CSS -->
    <link href="assets/css/bootstrap.min.css" rel="stylesheet">
    <link rel="stylesheet" type="text/css" href="assets/css/bootstrap-
theme.min.css">
    <!-- Custom CSS -->
    <link href="assets/css/sb-admin.css" rel="stylesheet">
    <!-- Morris Charts CSS -->
    <link href="assets/css/plugins/morris.css" rel="stylesheet">
    <!-- Custom Fonts -->
    <link href="assets/font-awesome/css/font-awesome.min.css" rel="stylesheet"
type="text/css">
    <link href="assets/css/dataTables.bootstrap.min.css" rel="stylesheet">
</head>
<body>
    <div id="wrapper">
        <!-- Navigation -->
        <nav class="navbar navbar-inverse navbar-fixed-top" role="navigation">
            <!-- Brand and toggle get grouped for better mobile display -->
            <div class="navbar-header">
                <button type="button" class="navbar-toggle" data-toggle="collapse"
data-target=".navbar-ex1-collapse">
                    <span class="sr-only">Toggle navigation</span>
                    <span class="icon-bar"></span>
```

```

        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
    </button>
    <a class="navbar-brand" href="index.html">Pharmacy Management
System </a>
</div>
<!-- Top Menu Items -->
<ul class="nav navbar-right top-nav">
    <li class="dropdown">
        <a href="#" class="dropdown-toggle" data-toggle="dropdown"><i
class="fa fa-user"></i> Administrator<b class="caret"></b></a>
        <ul class="dropdown-menu">
            <li>
                <a href="#"><i class="fa fa-fw fa-gear"></i> Settings</a>
            </li>
            <li class="divider"></li>
            <li>
                <a href="logout.php"><i class="fa fa-fw fa-power-off"></i>
Log Out</a>
            </li>
        </ul>
    </li>
</ul>
<!-- Sidebar Menu Items - These collapse to the responsive navigation
menu on small screens -->
<div class="collapse navbar-collapse navbar-ex1-collapse">
    <ul class="nav navbar-nav side-nav">
        <li>
            <a href="home.php"><span class="glyphicon glyphicon-home"
aria-hidden="true"></span></i> Home</a>
        </li>
        <li>
            <a href="item.php"><span class="glyphicon glyphicon-list" aria-
hidden="true"></span> Item List</a>
        </li>
        <li class="active">
            <a href="product.php"><span class="glyphicon glyphicon-th-list"
aria-hidden="true"></span> Product Profile</a>
        </li>
        <li>
            <a href="stock.php"><span class="glyphicon glyphicon-book"
aria-hidden="true"></span> Stocks</a>
        </li>
        <li>
            <a href="expired.php"><span class="glyphicon glyphicon-
remove" aria-hidden="true"></span> Expired</a>

```

```

        </li>
        <li>
            <a href="sales.php"><span class="glyphicon glyphicon-record"
aria-hidden="true"></span> Sales</a>
        </li>
    </ul>
</div>
<!-- /.navbar-collapse -->
</nav>

<div id="page-wrapper">

    <div class="container-fluid">

        <!-- Page Heading -->
        <div class="row">
            <div class="col-lg-12">
                <h1 class="page-header">
                </h1>
            </div>
        </div>
        <!-- /.row -->
        <button class="btn btn-default" id="add-stock">New Stock
            <span class="glyphicon glyphicon-plus-sign" aria-
hidden="true"></span>
        </button>
        <button class="btn btn-danger" id="del-stock">Remove Selected
            <span class="glyphicon glyphicon-trash" aria-
hidden="true"></span>
        </button>
        <div id="all-stocklist"></div>

    </div>
    <!-- /.container-fluid -->
</div>
<!-- /#page-wrapper -->
</div>
<!-- /#wrapper -->
<?php include_once('modal/stock.php'); ?>
<?php include_once('modal/confirmation.php'); ?>
<?php include_once('modal/message.php'); ?>
<script type="text/javascript" src="assets/js/jquery-3.1.1.min.js"></script>
<script type="text/javascript" src="assets/js/jquery-1.12.3.js"></script>
<script type="text/javascript" src="assets/js/bootstrap.min.js"></script>
<script type="text/javascript" src="assets/js/jquery.dataTables.min.js"></script>

```

```
<script type="text/javascript"
src="assets/js/dataTables.bootstrap.min.js"></script>
<script type="text/javascript" src="assets/js/regis.js"></script>
</body>
</html>
```

### 3.4.5 STOCKS

```
<?php require_once('include/session.php'); ?>
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <meta name="description" content="">
  <meta name="author" content="">
  <title>Pharmacy Management System </title>
  <!-- Bootstrap Core CSS -->
  <link href="assets/css/bootstrap.min.css" rel="stylesheet">
  <link rel="stylesheet" type="text/css" href="assets/css/bootstrap-
theme.min.css">
  <!-- Custom CSS -->
  <link href="assets/css/sb-admin.css" rel="stylesheet">
  <!-- Morris Charts CSS -->
  <link href="assets/css/plugins/morris.css" rel="stylesheet">
  <!-- Custom Fonts -->
  <link href="assets/font-awesome/css/font-awesome.min.css" rel="stylesheet"
type="text/css">
  <link href="assets/css/dataTables.bootstrap.min.css" rel="stylesheet">
</head>
<body>
  <div id="wrapper">
    <!-- Navigation -->
    <nav class="navbar navbar-inverse navbar-fixed-top" role="navigation">
      <!-- Brand and toggle get grouped for better mobile display -->
      <div class="navbar-header">
        <button type="button" class="navbar-toggle" data-toggle="collapse"
data-target=".navbar-ex1-collapse">
          <span class="sr-only">Toggle navigation</span>
          <span class="icon-bar"></span>
          <span class="icon-bar"></span>
          <span class="icon-bar"></span>
        </button>
        <a class="navbar-brand" href="index.html">Pharmacy Management
System </a>
```

```

</div>
<!-- Top Menu Items -->
<ul class="nav navbar-right top-nav">
  <li class="dropdown">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown"><i
class="fa fa-user"></i> Administrator<b class="caret"></b></a>
    <ul class="dropdown-menu">
      <li>
        <a href="#"><i class="fa fa-fw fa-gear"></i> Settings</a>
      </li>
      <li class="divider"></li>
      <li>
        <a href="logout.php"><i class="fa fa-fw fa-power-off"></i>
Log Out</a>
      </li>
    </ul>
  </li>
</ul>
<!-- Sidebar Menu Items - These collapse to the responsive navigation
menu on small screens -->
<div class="collapse navbar-collapse navbar-ex1-collapse">
  <ul class="nav navbar-nav side-nav">
    <li>
      <a href="home.php"><span class="glyphicon glyphicon-home"
aria-hidden="true"></span></i> Home</a>
    </li>
    <li>
      <a href="item.php"><span class="glyphicon glyphicon-list" aria-
hidden="true"></span> Item List</a>
    </li>
    <li>
      <a href="product.php"><span class="glyphicon glyphicon-th-list"
aria-hidden="true"></span> Product Profile</a>
    </li>
    <li class="active">
      <a href="stock.php"><span class="glyphicon glyphicon-book"
aria-hidden="true"></span> Stocks</a>
    </li>
    <li>
      <a href="expired.php"><span class="glyphicon glyphicon-
remove" aria-hidden="true"></span> Expired</a>
    </li>
    <li>
      <a href="sales.php"><span class="glyphicon glyphicon-record"
aria-hidden="true"></span> Sales</a>
    </li>
  </ul>
</div>

```



```

        </ul>
    </div>
    <!-- /.navbar-collapse -->
</nav>
<div id="page-wrapper">
    <div class="container-fluid">
        <!-- Page Heading -->
        <div class="row">
            <div class="col-lg-12">
                <h1 class="page-header">
                    </h1>
                </div>
            </div>
            <!-- /.row -->
            <button class="btn btn-success btn-sm" id="stock-report">PRINT
                <span class="glyphicon glyphicon-print" aria-
hidden="true"></span>
            </button>
            <div id="all-stock"></div>
        </div>
    <!-- /.container-fluid -->
</div>
<!-- /#page-wrapper -->
</div>
<!-- /#wrapper -->
<?php include_once('modal/confirmation.php'); ?>
<?php include_once('modal/message.php'); ?>
<script type="text/javascript" src="assets/js/jquery-3.1.1.min.js"></script>
<script type="text/javascript" src="assets/js/jquery-1.12.3.js"></script>
<script type="text/javascript" src="assets/js/bootstrap.min.js"></script>
<script type="text/javascript" src="assets/js/jquery.dataTables.min.js"></script>
<script type="text/javascript"
src="assets/js/dataTables.bootstrap.min.js"></script>
<script type="text/javascript" src="assets/js/regis.js"></script>
</body>
</html>

```

### 3.4.6 EXPIRED

```

<?php require_once('include/session.php'); ?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1">

```

```

<meta name="description" content="">
<meta name="author" content="">
<title>Pharmacy Management System </title>
<!-- Bootstrap Core CSS -->
<link href="assets/css/bootstrap.min.css" rel="stylesheet">
<link rel="stylesheet" type="text/css" href="assets/css/bootstrap-
theme.min.css">
<!-- Custom CSS -->
<link href="assets/css/sb-admin.css" rel="stylesheet">
<!-- Morris Charts CSS -->
<link href="assets/css/plugins/morris.css" rel="stylesheet">
<!-- Custom Fonts -->
<link href="assets/font-awesome/css/font-awesome.min.css" rel="stylesheet"
type="text/css">
<link href="assets/css/dataTables.bootstrap.min.css" rel="stylesheet">
</head>
<body>
<div id="wrapper">
<!-- Navigation -->
<nav class="navbar navbar-inverse navbar-fixed-top" role="navigation">
<!-- Brand and toggle get grouped for better mobile display -->
<div class="navbar-header">
<button type="button" class="navbar-toggle" data-toggle="collapse"
data-target=".navbar-ex1-collapse">
<span class="sr-only">Toggle navigation</span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
</button>
<a class="navbar-brand" href="index.html">Pharmacy Management
System </a>
</div>
<!-- Top Menu Items -->
<ul class="nav navbar-right top-nav">
<li class="dropdown">
<a href="#" class="dropdown-toggle" data-toggle="dropdown"><i
class="fa fa-user"></i> Administrator<b class="caret"></b></a>
<ul class="dropdown-menu">
<li>
<a href="#"><i class="fa fa-fw fa-gear"></i> Settings</a>
</li>
<li class="divider"></li>
<li>
<a href="logout.php"><i class="fa fa-fw fa-power-off"></i>
Log Out</a>
</li>

```

```

        </ul>
    </li>
</ul>
<!-- Sidebar Menu Items - These collapse to the responsive navigation
menu on small screens -->
<div class="collapse navbar-collapse navbar-ex1-collapse">
    <ul class="nav navbar-nav side-nav">
        <li>
            <a href="home.php"><span class="glyphicon glyphicon-home"
aria-hidden="true"></span></i> Home</a>
        </li>
        <li>
            <a href="item.php"><span class="glyphicon glyphicon-list" aria-
hidden="true"></span> Item List</a>
        </li>
        <li>
            <a href="product.php"><span class="glyphicon glyphicon-th-list"
aria-hidden="true"></span> Product Profile</a>
        </li>
        <li class="active">
            <a href="stock.php"><span class="glyphicon glyphicon-book"
aria-hidden="true"></span> Stocks</a>
        </li>
        <li>
            <a href="expired.php"><span class="glyphicon glyphicon-
remove" aria-hidden="true"></span> Expired</a>
        </li>
        <li>
            <a href="sales.php"><span class="glyphicon glyphicon-record"
aria-hidden="true"></span> Sales</a>
        </li>
    </ul>
</div>
<!-- /.navbar-collapse -->
</nav>
<div id="page-wrapper">
    <div class="container-fluid">
        <!-- Page Heading -->
        <div class="row">
            <div class="col-lg-12">
                <h1 class="page-header">
                </h1>
            </div>
        </div>
    </div>
    <!-- /.row -->
    <button class="btn btn-success btn-sm" id="stock-report">PRINT

```

```

        <span class="glyphicon glyphicon-print" aria-
hidden="true"></span>
    </button>
    <div id="all-stock"></div>
</div>
<!-- /.container-fluid -->
</div>
<!-- /#page-wrapper -->
</div>
<!-- /#wrapper -->
<?php include_once('modal/confirmation.php'); ?>
<?php include_once('modal/message.php'); ?>
<script type="text/javascript" src="assets/js/jquery-3.1.1.min.js"></script>
<script type="text/javascript" src="assets/js/jquery-1.12.3.js"></script>
<script type="text/javascript" src="assets/js/bootstrap.min.js"></script>
<script type="text/javascript" src="assets/js/jquery.dataTables.min.js"></script>
<script type="text/javascript"
src="assets/js/dataTables.bootstrap.min.js"></script>
<script type="text/javascript" src="assets/js/regis.js"></script>
</body>
</html>

```

### 3.4.7 SALES

```

<?php require_once('include/session.php'); ?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <meta name="description" content="">
    <meta name="author" content="">
    <title>Pharmacy Management System</title>
    <!-- Bootstrap Core CSS -->
    <link href="assets/css/bootstrap.min.css" rel="stylesheet">
    <link rel="stylesheet" type="text/css" href="assets/css/bootstrap-
theme.min.css">
    <!-- Custom CSS -->
    <link href="assets/css/sb-admin.css" rel="stylesheet">
    <!-- Morris Charts CSS -->
    <link href="assets/css/plugins/morris.css" rel="stylesheet">
    <!-- Custom Fonts -->
    <link href="assets/font-awesome/css/font-awesome.min.css" rel="stylesheet"
type="text/css">
    <link href="assets/css/dataTables.bootstrap.min.css" rel="stylesheet">

```

```

</head>
<body>
  <div id="wrapper">
    <!-- Navigation -->
    <nav class="navbar navbar-inverse navbar-fixed-top" role="navigation">
      <!-- Brand and toggle get grouped for better mobile display -->
      <div class="navbar-header">
        <button type="button" class="navbar-toggle" data-toggle="collapse"
data-target=".navbar-ex1-collapse">
          <span class="sr-only">Toggle navigation</span>
          <span class="icon-bar"></span>
          <span class="icon-bar"></span>
          <span class="icon-bar"></span>
        </button>
        <a class="navbar-brand" href="index.html">Pharmacy Management
System </a>
      </div>
      <!-- Top Menu Items -->
      <ul class="nav navbar-right top-nav">
        <li class="dropdown">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown"><i
class="fa fa-user"></i> Administrator<b class="caret"></b></a>
          <ul class="dropdown-menu">
            <li>
              <a href="#"><i class="fa fa-fw fa-gear"></i> Settings</a>
            </li>
            <li class="divider"></li>
            <li>
              <a href="logout.php"><i class="fa fa-fw fa-power-off"></i>
Log Out</a>
            </li>
          </ul>
        </li>
      </ul>
      <!-- Sidebar Menu Items - These collapse to the responsive navigation
menu on small screens -->
      <div class="collapse navbar-collapse navbar-ex1-collapse">
        <ul class="nav navbar-nav side-nav">
          <li>
            <a href="home.php"><span class="glyphicon glyphicon-home"
aria-hidden="true"></span></i> Home</a>
          </li>
          <li>
            <a href="item.php"><span class="glyphicon glyphicon-list" aria-
hidden="true"></span> Item List</a>
          </li>
        </ul>
      </div>
    </nav>
  </div>

```

```

        <li>
            <a href="product.php"><span class="glyphicon glyphicon-th-list"
aria-hidden="true"></span> Product Profile</a>
        </li>
        <li>
            <a href="stock.php"><span class="glyphicon glyphicon-book"
aria-hidden="true"></span> Stocks</a>
        </li>
        <li>
            <a href="expired.php"><span class="glyphicon glyphicon-remove"
aria-hidden="true"></span> Expired</a>
        </li>
        <li class="active">
            <a href="sales.php"><span class="glyphicon glyphicon-record"
aria-hidden="true"></span> Sales</a>
        </li>
    </ul>
</div>
<!-- /.navbar-collapse -->
</nav>
<div id="page-wrapper">
    <div class="container-fluid">
        <!-- Page Heading -->
        <div class="row">
            <div class="col-lg-12">
                <h1 class="page-header">
                </h1>
            </div>
        </div>
        <!-- /.row -->
        <strong>Daily Sales:</strong>
        <input id="dailyDate" type="date" class="btn btn-default btn-sm"
placeholder=""
value="<?= date('Y-m-d'); ?>">

        <div id="printBut" class="pull-right">
            <button type="button" class="btn btn-success btn-sm">
                PRINT
            <span class="glyphicon glyphicon-print" aria-
hidden="true"></span>
        </button>
        </div>
        <div id="all-sales"></div>
    </div>
    <!-- /.container-fluid -->
</div>

```

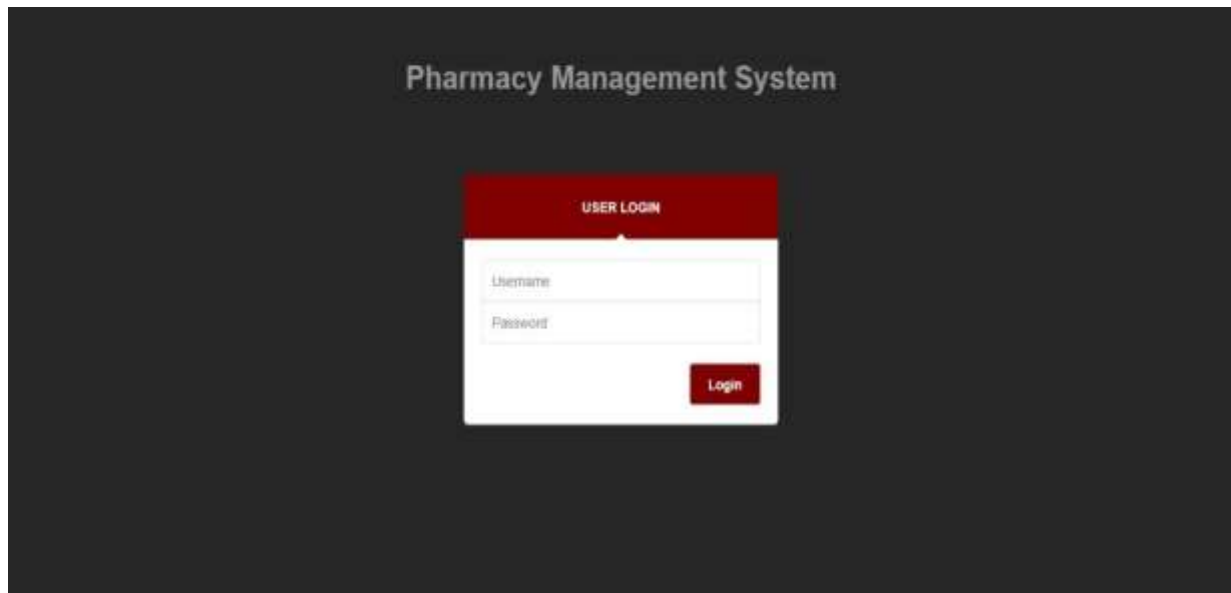
```
<!-- /#page-wrapper -->
</div>
<!-- /#wrapper -->
<script type="text/javascript" src="assets/js/jquery-1.12.3.js"></script>
<script type="text/javascript" src="assets/js/jquery-3.1.1.min.js"></script>
<script type="text/javascript" src="assets/js/bootstrap.min.js"></script>
<script type="text/javascript" src="assets/js/jquery.dataTables.min.js"></script>
<script type="text/javascript"
src="assets/js/dataTables.bootstrap.min.js"></script>
<script type="text/javascript" src="assets/js/regis.js"></script>
</body>
</html>
```

## CHAPTER 04

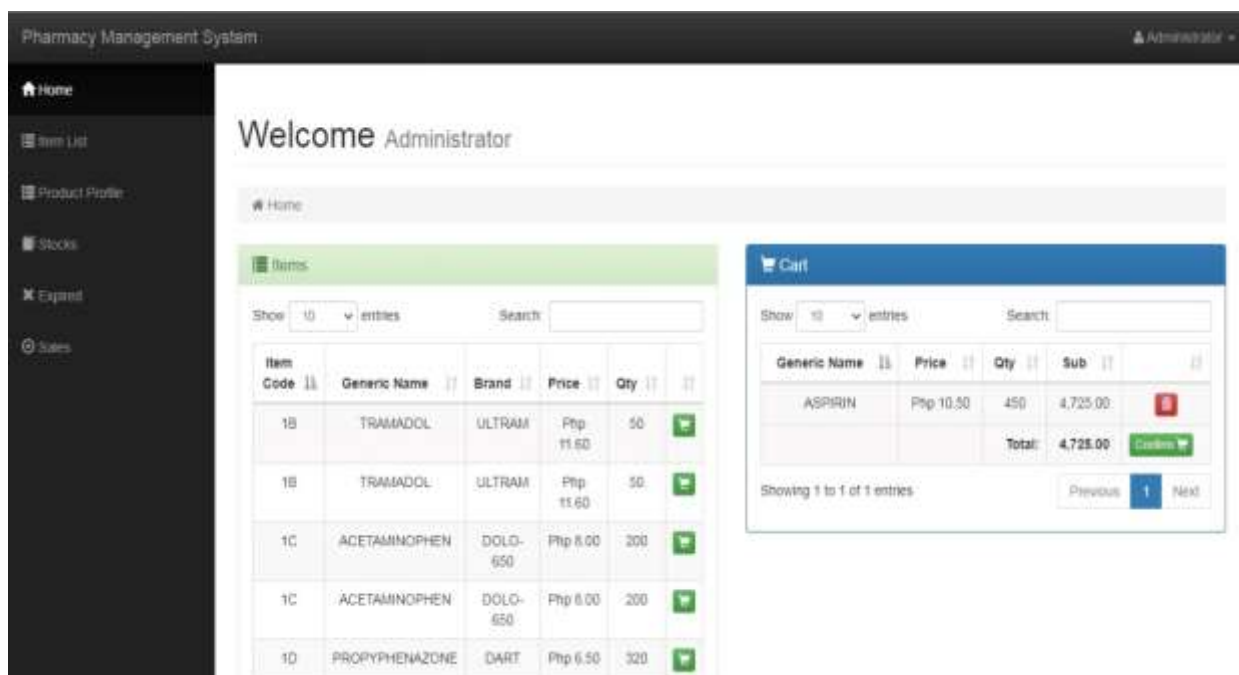
### RESULT ANALYSIS

#### 4.1 SNAP SHOTS

##### 4.1.1 Index Page



##### 4.1.2 Home Page





## 4.1.3 Item List Page

Pharmacy Management System
Administrator

Home
Item List
Product Profile
Stocks
Expired

Add New Item

Show 10 entries
Search

Item Code	Generic Name	Brand	Type	Grams	Price	Action
1A	ASPIRIN	BUFFERIN	Tablet	250	Php 10.50	View
1B	TRAMADOL	ULTRAM	Tablet	500	Php 11.60	View
1C	ACETAMINOPHEN	DOLO-650	Tablet	650	Php 8.00	View
1D	PROPYPHENAZONE	DART	Tablet	50	Php 6.50	View
1E	AMOXICILIN	NOVOMOX	Tablet	500	Php 9.00	View

Showing 1 to 5 of 5 entries
Previous 1 Next

## 4.1.4 Product Profile Page

Pharmacy Management System
Administrator

Home
Item List
Product Profile
Stocks
Expired
Sales

New Stock
Remove Selected

Show 10 entries
Search

	Item Code	Generic Name	Type	Manufactured	Purchased	Price	Qty	Expiry Date
<input type="checkbox"/>	1C	ACETAMINOPHEN	Syrup	2021-07-15	2022-02-19	Php 8.00	200	2022-04-21
<input type="checkbox"/>	1C	ACETAMINOPHEN	Test	2021-07-15	2022-02-19	Php 8.00	200	2022-04-21
<input type="checkbox"/>	1B	TRAMADOL	Syrup	2021-07-14	2022-01-11	Php 11.60	50	2022-02-08
<input type="checkbox"/>	1B	TRAMADOL	Test	2021-07-14	2022-01-11	Php 11.60	50	2022-02-08
<input type="checkbox"/>	1A	ASPIRIN	Syrup	2021-02-01	2022-02-03	Php 10.50	450	2022-02-02
<input type="checkbox"/>	1A	ASPIRIN	Test	2021-02-01	2022-02-03	Php 10.50	450	2022-02-02
<input type="checkbox"/>	1D	PROPYPHENAZONE	Syrup	2021-02-09	2022-03-18	Php 6.50	320	2022-03-11
<input type="checkbox"/>	1D	PROPYPHENAZONE	Test	2021-02-09	2022-03-18	Php 6.50	320	2022-03-11

Showing 1 to 8 of 8 entries
Previous 1 Next

## 4.1.5 Stocks Page

Pharmacy Management System Administrator

Home Item List Product Profile **Stocks** Expired Sales

[PRINT](#)

Show 10 entries Search

Item Name	Price	Qty
ACETAMINOPHEN	Php 8.00	200
ASPIRIN	Php 10.50	450
PROPYPHENAZONE	Php 6.50	300
TRAMADOL	Php 11.60	50

Showing 1 to 4 of 4 entries [Previous](#) [1](#) [Next](#)

## 4.1.6 Expired Page

Pharmacy Management System Administrator

Home Item List Product Profile Stocks **Expired** Sales

Expired Item

Show 10 entries Search

Item Name	Price	Qty	Expired Date
111	Php 7.50	34	2017-04-14
111	Php 7.50	13	2017-04-21
111	Php 7.50	123	2017-04-08
111	Php 7.50	23	2017-05-04
111	Php 7.50	21	2017-04-22
AMOXICILLIN	Php 9.00	640	2022-01-10
ASPIRIN	Php 10.50	500	2022-03-17
ASPIRIN	Php 10.50	500	2022-03-18
Haha	Php 5.60	7	2017-06-18
Haha	Php 5.60	12	2017-03-23

Showing 1 to 10 of 14 entries [Previous](#) [1](#) [2](#) [Next](#)

### 4.1.7 Sales Page

Pharmacy Management System
Administrator

Home
Item List
Product Profile
Stocks
Expired
**Sales**

Daily Sales: 02/10/2022
PRINT

Notice: A non well formed numeric value encountered in C:\xampp\htdocs\regis\_inventory\data\all\_sales.php on line 29

Show 10 entries
Search:

Item Code	Generic Name	Brand	Grams	Type	Price	Qty	Sub Total
1A	ASPIRIN	BUFFERIN	250	Tablet	10.50	450	4,725.00
TOTAL:							4.00

Showing 1 to 1 of 1 entries
Previous 1 Next

## **4.2 DISCUSSION**

### **INDEX PAGE:**

Figure 4.1.1 describes about index page providing username and password.

### **HOME PAGE:**

Figure 4.1.2 describes about that the medicines that are available and can select medicines to put it into cart

### **ITEM LIST PAGE:**

Figure 4.1.3 describes about that the user can add medicines available product in item list page.

### **PRODUCT PROFILE PAGE:**

Figure 4.1.4 describes about that the user can view available product in product page.

### **STOCKS PAGE:**

Figure 4.1.6 shows the which medicine as how many stock of particular quantity

### **EXPIRED PAGE:**

Figure 4.1.8. shows the medicines expired in the stock

### **SALES PAGE:**

Figure 4.1.9 describes about the sales information that user can view.

## 4.3 TESTING

### Design of Test Cases

Testing is the major process involved in software quality assurance and represents the ultimate review of specification, design and coding. The overall objective of testing is to find the maximum number of errors with minimum efforts. Here test data is prepared and is used to test the modules individually. System testing makes sure that all components of the system function properly as a unit by actually forcing the system to fail.

The test cases should be planned before testing begins. Then as the testing progresses, testing shifts focus in an attempt to find errors in integrated clusters of modules and in the entire system. The philosophy behind testing is to find errors in integrated clusters of modules and in the entire system. The philosophy behind testing is to find errors. Actually testing is the estate of implementation that is aimed at ensuring that the system works actually and efficiently before implementation.

The Testing phase involves the testing of individual program units and the functionality with various test data. Preparation of the test data plays a vital role in system testing. After preparing the test data the system under study was tested using those test data. A series of tests were performed on the developed system before implementing the same. The various types of testing done on system were

- Unit Testing
- Integration Testing
- Validation Testing
- Acceptance Testing

### Unit Testing

Unit Testing is a procedure used to validate that a particular module of source code is working properly. The procedure is to write test cases for all functions and methods so that whenever a change causes a regression, it can be quickly identified and fixed. Ideally, each test case is separate from the others. This type of testing is mostly done by the developers and not by end-users. The goal of unit testing is to isolate each part of the program and show that the individual parts are correct. Unit testing provides a strict, written contract that the piece of code must satisfy.

### Integration Testing

Integration testing is the phase of software testing in which individual software modules are combined and tested as a group. It follows unit testing and precedes

system testing. Integration testing takes as its input modules that have been checked out by unit testing, groups them in larger aggregates, applies tests defined in an integration test plan to those aggregates and delivers as its output the integrated system ready for system testing.

### Validation Testing

At the culmination of integration testing, software is completely assembled as a package, interfacing errors have been uncovered and corrected, and a final series of software tests, validation testing was carried out. Validation testing can be defined in many ways, but a simple definition is that validation succeeds when the software functions in a manner that can be reasonably expected by the customer/user.

### Acceptance Testing

When that user find no major problems with its accuracy, the system passes through a final acceptance test. This test confirms that the system meets the original goals, objectives and requirements established during analysis without actual execution which eliminates wastage of time and money acceptance tests on the shoulders of users and management, it is finally acceptable and ready for the operation.

### Sample Test Cases

A test case in a software engineering is a set of conditions or variables under which a tester will determine whether an application or software system is working correctly or not. The mechanism for determining whether a software program or system has passed or failed such a test is known as a test case. Test cases often referred to as test scripts, particularly when written. Written test cases are usually collected into test suites.

There are various test cases that have been used to verify the correct working of this project. Some of the test cases are shown below table 1.

Case no.	Scenario	Action	Expected output	Actual output	Result
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1	login	User enters wrong user name or password	Message window saying “please enter the user and password”	Message window saying “Login error”	FAIL
		User enters correct username and password	Takes user to pharmacy management	Takes user to pharmacy management	PASS
2	Adding medicine	user enters wrong barcode	Message window saying “cannot add medicine”	Message window saying “something went wrong”	FAIL
		User enters correct barcode	Message window saying “ can add medicine”	Takes to adding medicine name	PASS

## CHAPTER 05

**CONCLUSION AND FUTURE ENHANCEMENT****Conclusion:**

Pharmacy management system is software which handles the essential data and save the data about the database of a pharmacy and its management. This software effectively helps in management of the pharmaceutical store or shop. It provides the statistics about medicine or drugs which are in stocks and which can be updated and deleted. It works as per the requirement of the user. It allows admin to enter manufacturing as well as the expiry date of medicine placing in stock and for sales transaction. The main purpose is effectively and easily handling of pharmacy data and its management.

**Future Enhancement:**

This is a prototype of pharmaceutical inventory management system in future; system can be enhanced and expanded. It can also incorporate different probability and classification techniques like generating feedback,invoice,e-billing system using prescribed image by authorized doctor. In the future, it will work with the product rating using NLP, sentiment analysis and opinion mining

## CHAPTER 06

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