Pharmacy Management System

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بسم الله الرحمن الرحيم

DECLARATION

The work reported in this project was carried out by me under the supervision of ---Mam Arbab Kanwal-----University Community College, Government College University, Faisalabad, Pakistan. I hereby declare that the title of project----------- Pharmacy Management System-----and the contents of documentation are the product of my own research and no part has been copied from any published source (except the references, standard mathematical or genetic models /equations /formulas /protocols etc.). I further declare that this work has not been submitted for award of any other degree /diploma. The University may take action if the information provided is found inaccurate at any stage.

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AKNOWLEDGEMENT

All Praises for "Almighty Allah" Lord of all worlds the most Affectionate, the most Merciful, who presented me in a Muslim community and who is the entire source of all knowledge and wisdom. After that we thanks for the Holy Prophet Muhammad (PBUH) who is internal torch of guidance for humanity and enabled us to recognize our creator, forever model of guidance and knowledge for humanity.

We are also grateful to our **Supervisor ------Arbab Kanwal---------------**for this invaluable guidance and blessings. We are very grateful to our **Coordinator ----- Zia Qamar---------**for providing us with an environment to complete our project successfully.

We are deeply indebted to our **Principal----------------** who modeled us both technically and morally for achieving greater success in life. We also thank all the staff members of our college and technicians for their help in making this project a successful on finally, we take this opportunity to extend our deep appreciation to our **family and friends**, for all that they meant to us during the crucial times off the completion of our project.

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ABSTRACT

Nowadays, Pharmacy management system is one of the most essential tools that are mostly used in medical store in Pakistan; it is mostly used to manage pharmacy related activities such as medical inventory, record keeping, sales management as well as managing the medicine stock and information of the expired medicines. Many pharmacies in Pakistan are still operating manually; they don't have adequate software or website to manage their daily activities. It needs the pharmacist assistant to check the expired date of the medicine twice a week, and it can take a lot of time to find out whether certain medicine are out of stock. In this project we tried to develop a computerised and web based Pharmacy management system. Our main intention is to allow this application to be used in most retailing pharmacies in Pakistan, where a small point of customization will be required to each pharmacy in the implementation period. This system is designed to overcome all challenges related to the management of medicine that were used to be handled locally and manually. Pharmacy management system has its own significance to the retail pharmacy shops in Pakistan. Using this system, it will help us to records all transaction made at the daily sales, , customers, employees, balance stock, etc. It will manage all activities around the shop that increases productivity and maximize profit, it will also minimizing the risk of getting loss because all transactions are recorded to the system.

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CHAPTER-1

SOFTWARE REQUIREMENT SPECIFICATION

Introduction

Pharmacy management system is a management system that is designed to improve accuracy and to enhance safety and efficiency in the pharmaceutical store. It is a web based system which helps the Pharmacist to improve inventory management, cost, medical safety etc.

The system allows the user to enter a manufacturing and expiry date for a particular product or medicine during opening stock and sales transaction. The system will also give alert the list of products expiry after a specified date before the product eventually expires. It also involves manual entry upon arrival of new batches of medicines and upon medicine movement out of the pharmacy for a certain period, the pharmacist may want to generate report for the movement of medicines in and out of the pharmacy, getting information about the medicines e.g. expiry date, date purchased, number of medicines type left in the pharmacy.

Purpose of the Project

The user problems or background of the project effort

Pharmacy management has kept paper record in filing cabinets. Managing a very large pharmacy with records on papers will be tedious and difficult to keep track of inventories with regards to the medicines in the store, expiry date, quantity of medicines available based on the categories and their functions.

The pharmacist has to order medicines to replenish the already diminishing stock. In addition, ordering of medicines is being carried out manually. Significant amount of time is allocated for writing the order as the pharmacist needs to go through the stock balance and make rough estimate of the amount to order based.

Medicines are not supposed to be used after they have expired. This project work will prompt the pharmacist about medicines that are close to expiry, preventing those medicines from being sold and also providing solution to the earlier stated problems.

Goals of project

1. The aim of this project is to develop a software for the effective management of a pharmaceutical store that will be able to achieve the following objectives:
2. Ensuring effective policing by providing statistics of the medicines in stock.
3. Maintaining correct database by providing an option to update the medicines in stock.
4. Improving the efficiency of the system by ensuring effective monitoring of services and activities.
5. To provide optimal medicine inventory management by monitoring the medicine movement in the pharmacy.
6. To ensure that there exists a level of restricted access based on functionality and role.
7. To ensure that the system is user friendly.
8. To be able to generate report within a specified period of time.

Stakeholders

- ➢ Faizan Ali(developer)
- ➢ Minhaj Ashraf(developer)
- ➢ Arbab Kanwal(Supervisor)
- ➢ GCUF

Users of the system

Functional Requirements

There are functions done by the system such as: the necessary information of medicines, , customer records, preparing of invoices, Calendar, sales records, stock management, gives daily reports, easily searching of medicine, Update, delete and printing all reports within the system.

Non-functional Requirements

Pharmacy Management system is able to operate in the following characteristics.

Any familiar in using windows operation can operate the system since it have user friendly and easy to use user interface.

Reliability: The pharmacy system is available based on the user needs, can work properly and do transactions efficiently including safe management of the pharmacy. The pharmacy system is password protected to change things on the system. Here the pharmacist Manager control over the system by login to the pharmacy system. Any user cannot use the system without registered by the Administrator and all result data is protected and controlled by the Administrator.

CHAPTER-2

DESIGN AND ANALYSIS

Use Case Model

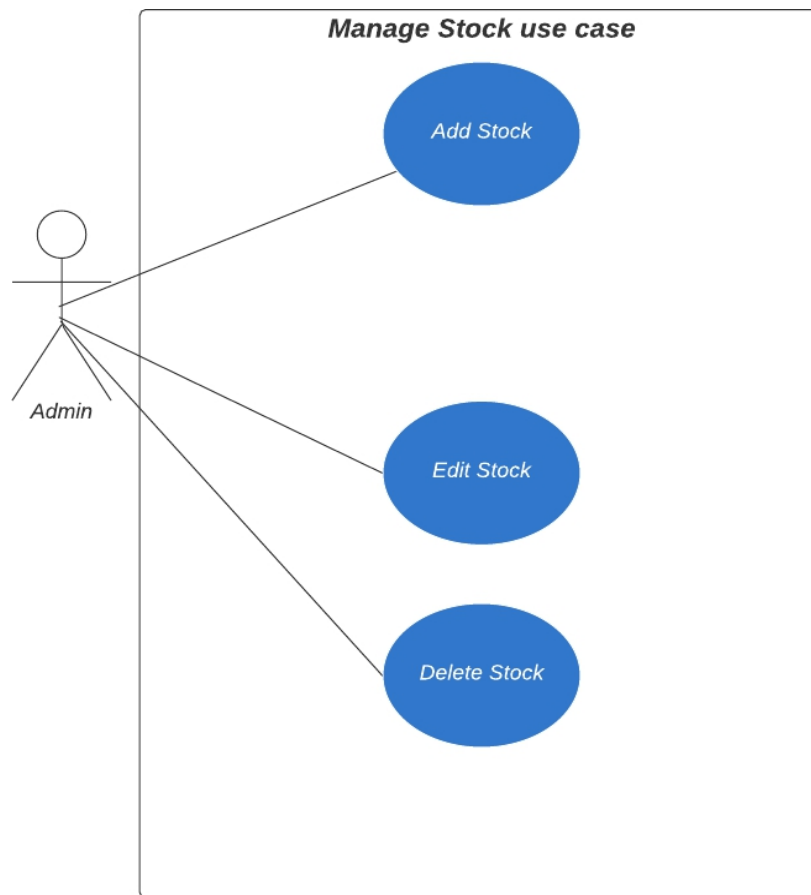*Figure2. 1*
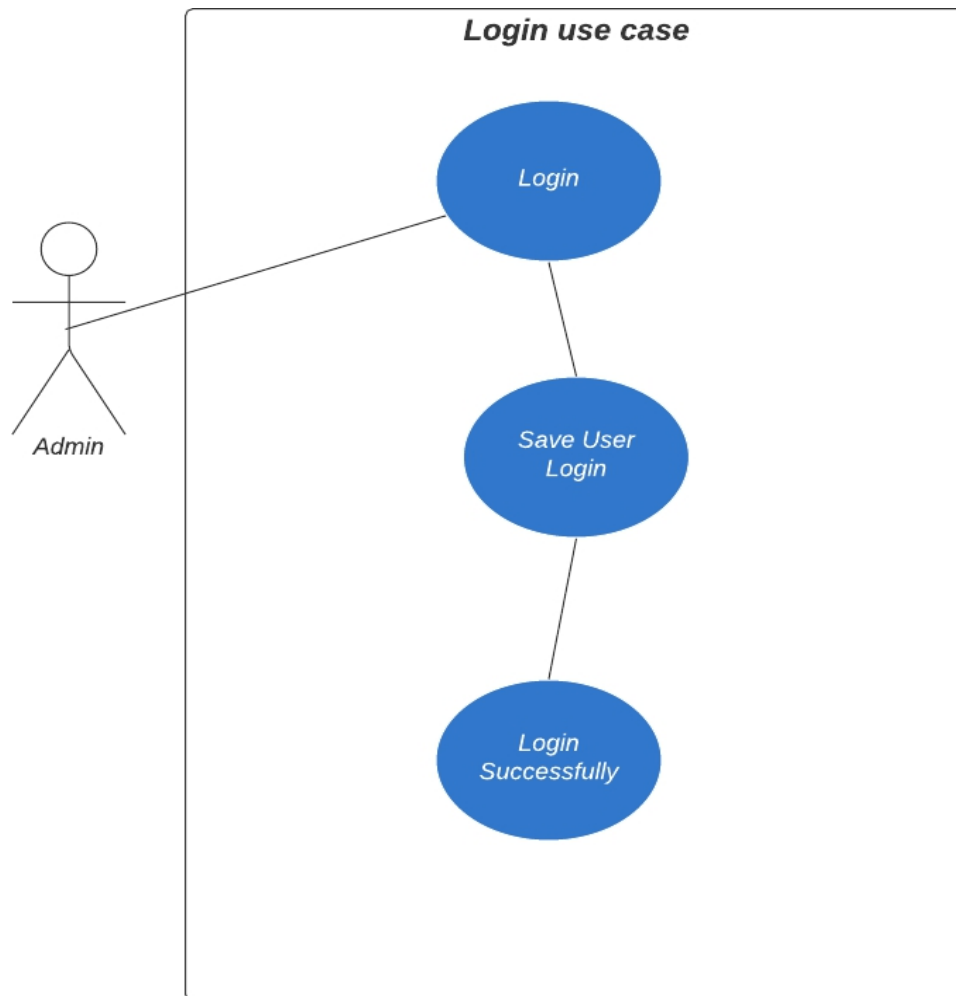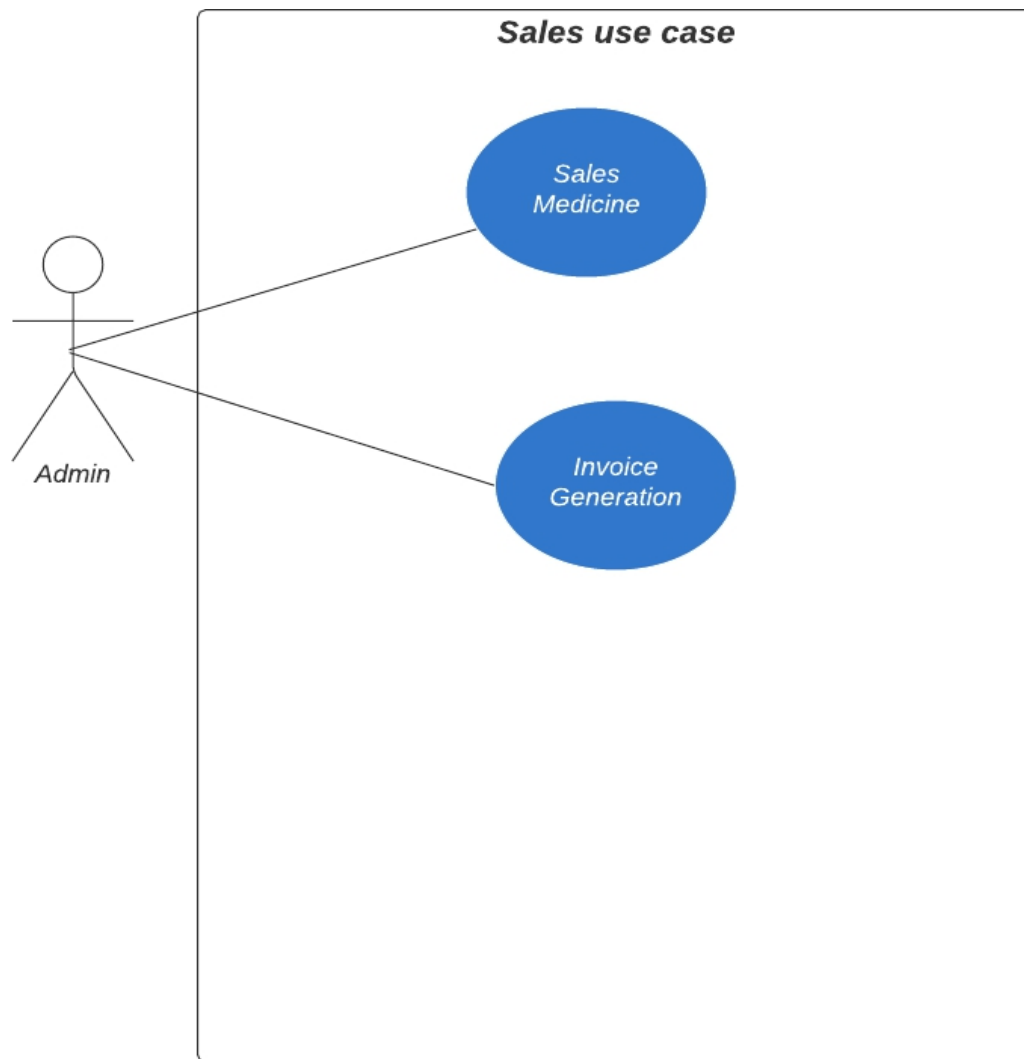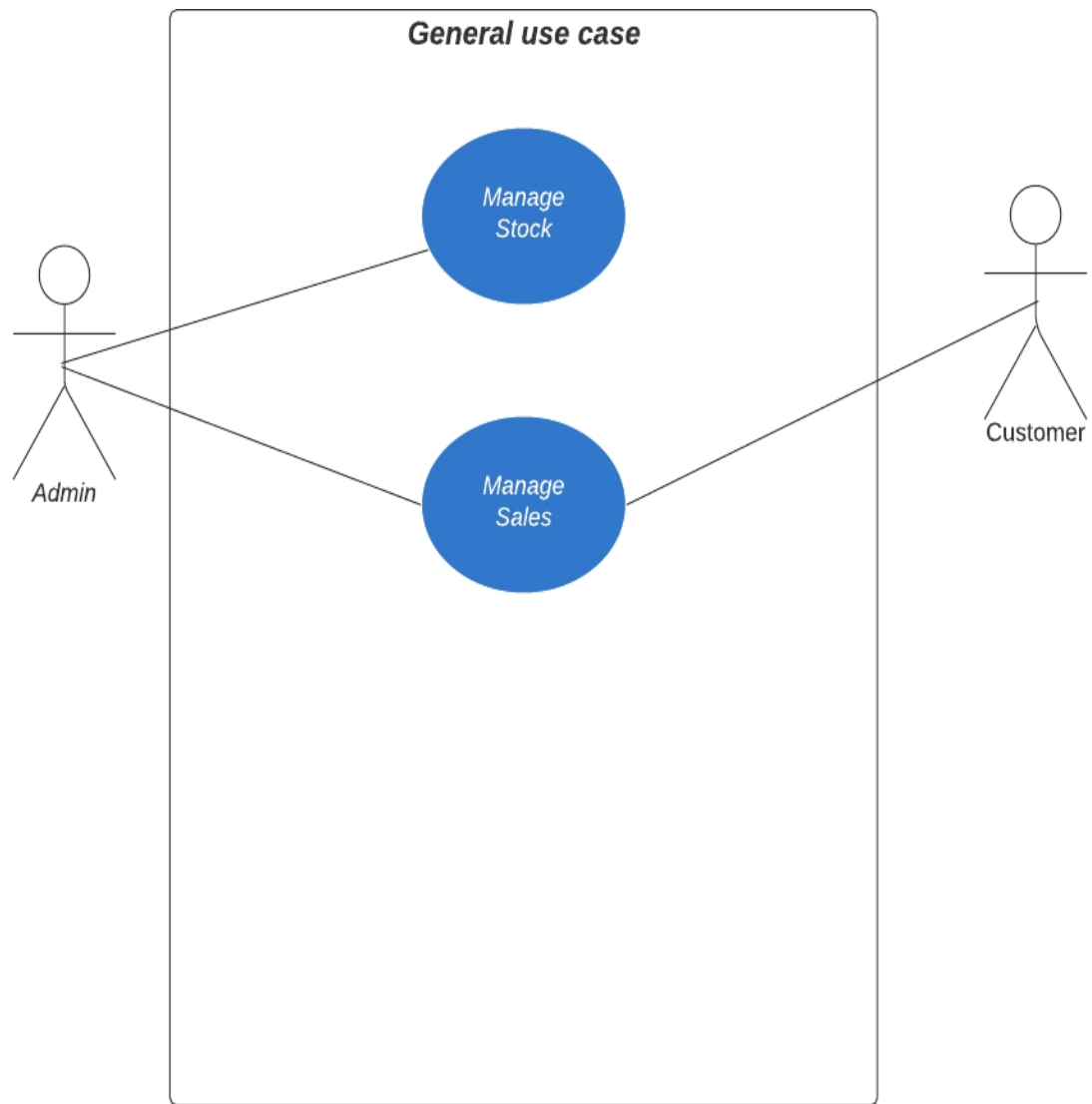
Figure2. 2

Figure2. 3

Figure2. 4

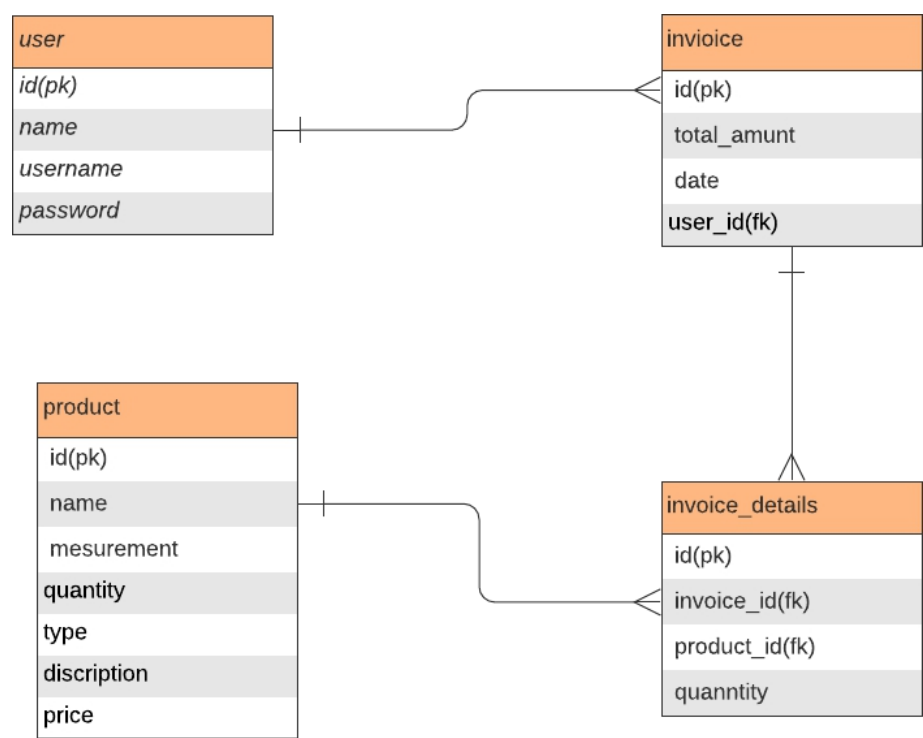**Entity Relationship Diagram (ERD)**

Figure2. 5

CHAPTER-3

IMPLEMENTATION AND INTERFACE

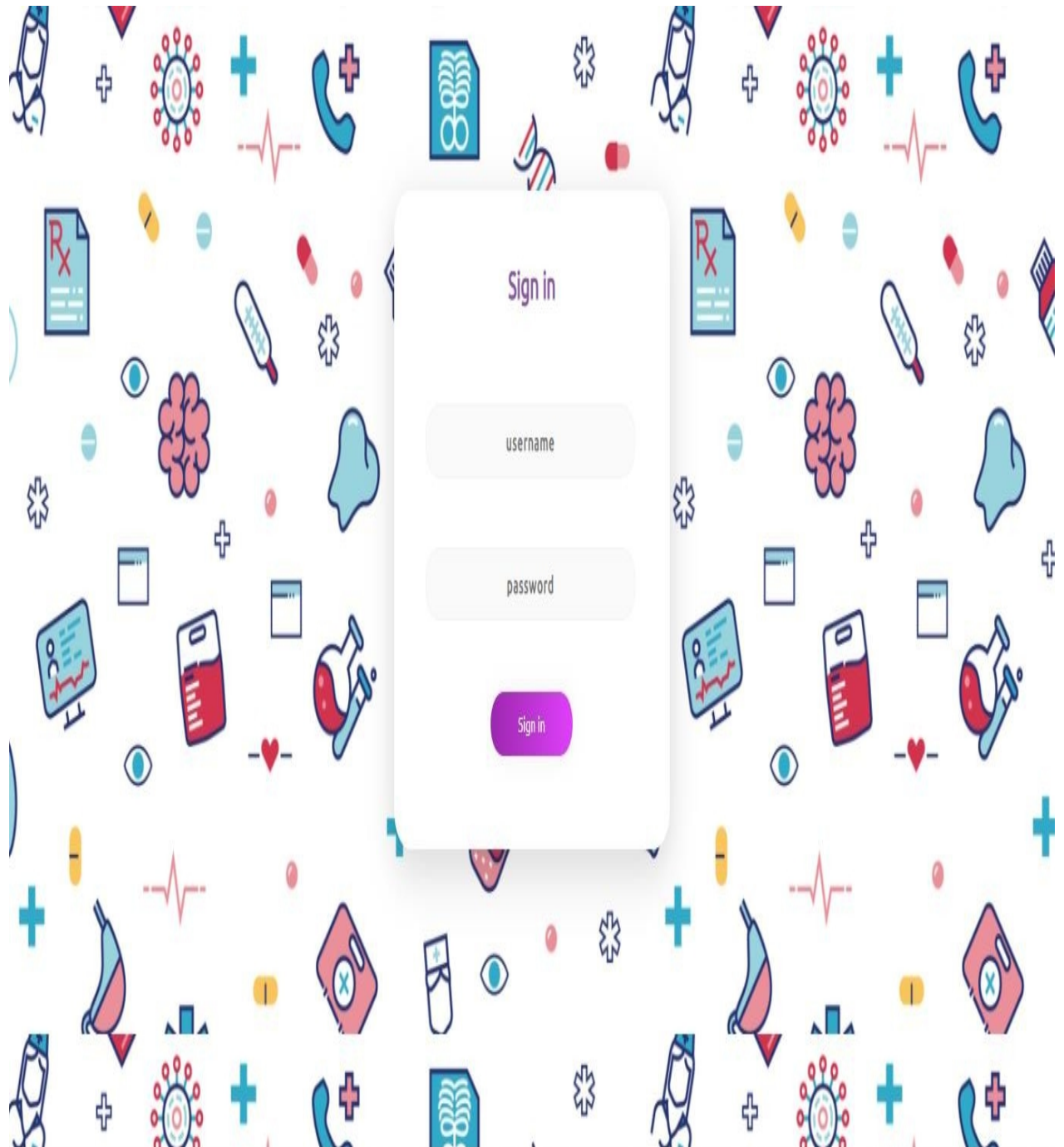**Code/Algorithm of Main scenarios and Main units of systems**

Login Page

Figure3. 1

In computer security, logging in is the process by which an individual gains access to a computer system by identifying and authenticating themselves. The user credentials are typically some form of "username" and a matching "password", and these credentials themselves are sometimes referred to as a login (or logon, sign-in, sign-on).When access is no longer needed, the user can log out (log off, sign out or sign off)

Coding of Login Page

```php
<?php


  include('db_connect.php');


  $username=$_POST['username'];

  $password=$_POST['password'];

  $sql = "SELECT * FROM `user` where username='$username' and password='$password'  ";

$result = $conn->query($sql);

if ($result->num_rows > 0) {


    echo '<script>


    window.location.href="http://localhost/pharmacynew/dashboard.php"; </script>';

}

else{

   echo '<script>

       alert("username or password is incorrect");

          window.location.href="http://localhost/pharmacynew/index.php"; </script>'}
```

Dashboard /Home

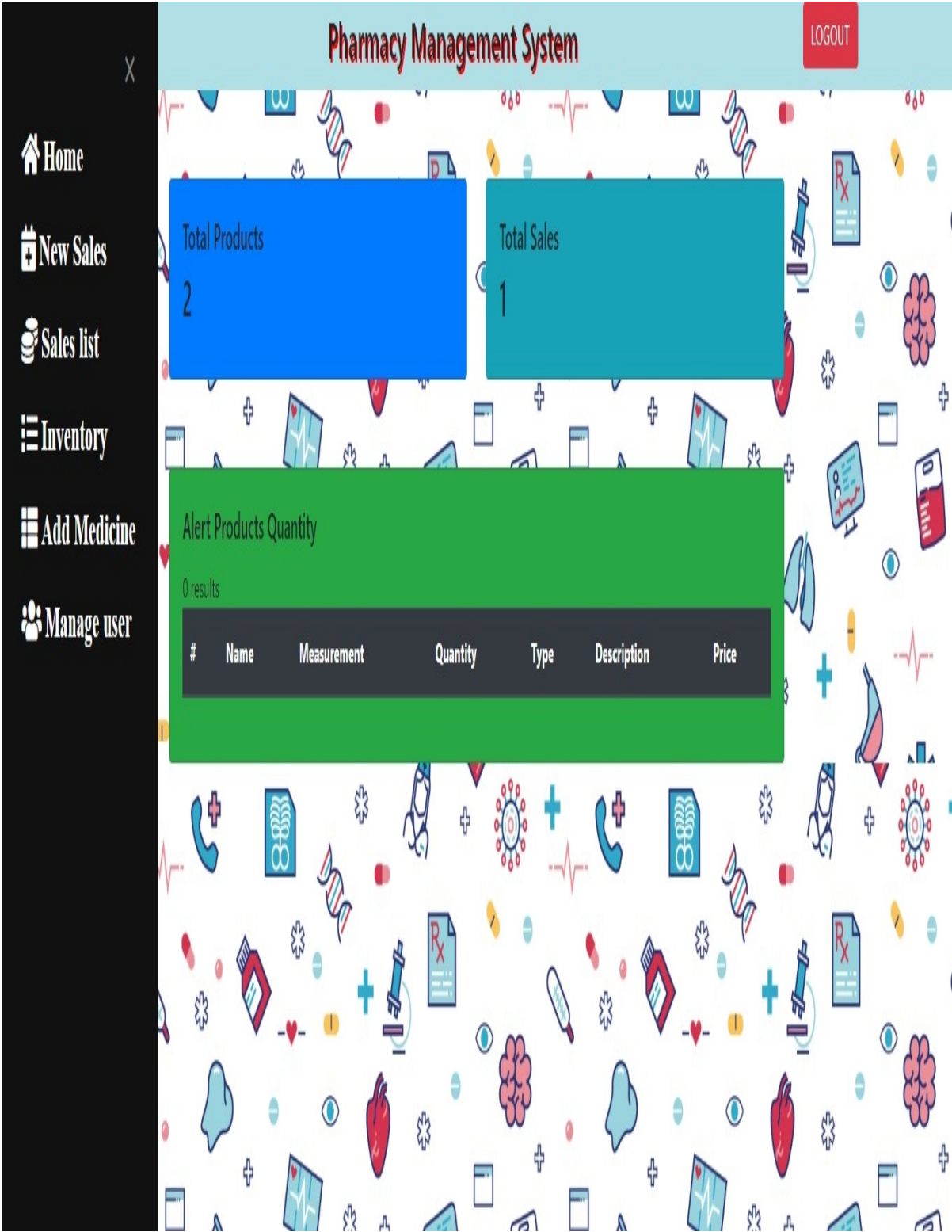*Figure3. 2*

In The dashboard, we have three things

Sidenavbar

1. New Sale
2. Sales List
3. Inventory
4. Add Medicine
5. Manage users

Top Nav

1. Logo
2. Heading
3. Logout button

Cards

1. Total Products(Which show the all products available in the stock)
2. Total sale(It shows us how much medicine will be sale)
3. Alert Product Quantity (This alerts us that there is a shortage of medicines; such as Name, type, price etc.)

Coding of Dashboard

```php
<?php include('header.php'); ?>

<?php include('topnav.php'); ?>

<?php include('sidenav.php'); ?>
<div class="row" style="margin-top: 50px;">


  <div class="col-md-2" ></div>
  <div class="col-md-8" >
    <div class='row' >
      <div class='col-md-6' >
        <div class="card bg-primary" style="width:100%; " >


          <div class="card-body">
            <h5 class="card-title">Total Products</h5>
            <h3 class="card-subtitle mb-2 ">


              <?php
```

```php
    include('db_connect.php');
    $sql = "SELECT count(*)as count_product  FROM `product` ";
    $result = $conn->query($sql);

    if ($result->num_rows > 0) {
      // output data of each row
      while ($row = $result->fetch_assoc()) {


        echo $row["count_product"];
      }
    }
    ?>



        </h3>

      </div>

  </div>
</div>
<div class='col-md-6' >
  <div class="card bg-info" style="width:100%; " >

    <div class="card-body">
      <h5 class="card-title">Total Sales</h5>
      <h3 class="card-subtitle mb-2 ">

      <?php
      include('db_connect.php');
      $sql = "SELECT count(*)as count_sales  FROM `invoice` ";
      $result = $conn->query($sql);
```

```php
                if ($result->num_rows > 0) {
                    // output data of each row
                    while ($row = $result->fetch_assoc()) {

                        echo $row["count_sales"];
                    }
                }
                ?>
            </h3>

        </div>

    </div>

    </div>

    </div>
    <div class="col-md-2" ></div>
</div>
<div class="row" style="margin-top: 50px;">

    <div class="col-md-2"></div>
    <div class="col-md-8">
        <div class="card bg-success" style="width:100%; " >
```

```
<div class="card-body">
    <h5 class="card-title">Alert Products Quantity</h5>


    <table class="table">
        <thead class="thead-dark">
            <tr>
                <th scope="col">#</th>
                <th scope="col">Name</th>
                <th scope="col">Measurement</th>
                <th scope="col">Quantity</th>
                <th scope="col">Type</th>
                <th scope="col">Description</th>
                <th scope="col">Price</th>
            </tr>
        </thead>
        <tbody>



            <?php
            include('db_connect.php');
            $sql = "SELECT `id`, `name`, `Measurement`, `quantity`, `type`, `description`, `price` FROM `product` where quantity <= 5 ";
            $result = $conn->query($sql);

            if ($result->num_rows > 0) {
                // output data of each row
                while ($row = $result->fetch_assoc()) {

                    echo "<tr>
                            <td>" . $row["id"] . "</td>
                            <td>" . $row["name"] . "</td>
                            <td>" . $row["Measurement"] . "</td>
```

```php
                    <td>" . $row["quantity"] . "</td>
                    <td>" . $row["type"] . "</td>
                    <td>" . $row["description"] . "</td>
                    <td>" . $row["price"] . "</td>
                </tr>";
            }
        } else {
            echo "0 results";
        }
        ?>




            </tbody>
        </table>
    </div>
    </div>



    </div>
<div class="col-md-2"></div>
</div>
<?php include('footer.php'); ?>
```

New Sale

Figure3. 3

In the sale, we have two text box and one button which is called products and quantity and the button +add to list.in the product(selection option is added) we choose the medicine name and in the second text box we write the quantity how much medicines are required .if the medicines are in stock then a alert box is open which show that the price of 1 medicine. If the medicine in out of stock then a alert blox is open that this medicine in stock is (for example 12) no more.

Then we have table which show the value automatically such as(Product , Quantity, price, Total price , Total Amount).

Coding of New sales

```php
<?php include('header.php'); ?>

<?php include('topnav.php'); ?>

<?php include('sidenav.php'); ?>


<div class="row" style="margin-top: 50px;">


  <div class="col-md-2" ></div>
  <div class="col-md-8" >


    <div class="card bg-light" style="width:100%; " >


      <div class="card-body">
        <h5 class="card-title">Sales</h5>
        <hr>




        <div class="row">
          <div class="col-md-4">
            <label class="control-label">Product</label>
            <div class="input-group mb-3">


              <select class="custom-select" id="inputGroupSelect01">
                <option value="0" selected>Choose...</option>
                <?php
                include('db_connect.php');
                $sql = "SELECT * FROM `product` ";
                $result = $conn->query($sql);
```

```php
                if ($result->num_rows > 0) {
                    // output data of each row
                    while ($row = $result->fetch_assoc()) {
                        ?>
                        <option value="<?php echo $row['id'].",".$row['price'].",".$row['quantity'].",",$row['name'] ?>"><?php echo $row['name'] . ' | ' . $row['id'] ?></option>

                        <?php
                    }
                }
                ?>
            </select>
        </div>
```

```html
    </div>
    <div class="col-md-2">
        <label class="control-label">Qty</label>
        <input type="number" class="form-control " id="qty" >
    </div>
    <div class="col-md-3">
        <label class="control-label">&nbsp</label>
        <button class="btn btn-block btn-primary" type="button" id="add_list" onclick="addintbl()"><i class="fa fa-plus"></i> Add to List</button>
    </div>

</div>

<hr>
```

```html
<form method="post" action="invoice.php" >
<div class="row">
  <table class="table table-bordered" id="list">
    <colgroup>
      <col width="30%">
      <col width="10%">
      <col width="25%">
      <col width="25%">
      <col width="10%">
    </colgroup>
    <thead>
      <tr>
        <th class="text-center">Product</th>
        <th class="text-center">Qty</th>
        <th class="text-center">Price</th>
        <th class="text-center">Amount</th>
        <th class="text-center"></th>
      </tr>
    </thead>
    <tbody>

    </tbody>
    <tfoot>
      <tr>
        <th class="text-right" colspan="3">Total</th>
        <th class="text-right tamount" id="total"><input type='hidden' name='total_amount' id="total_amount" value=" > </th>
        <th></th>
      </tr>
    </tfoot>
  </table>
</div>
<div class="row">
```

```html
            <div class="col-lg-12">


            </div>

            <div class="col-lg-12">

                <button    class="btn    btn-primary    col-sm-3    btn-sm    btn-block    float-right    "
type="submit" name="pay" id="pay">Pay</button>

            </div>

        </div>

        </form>

      </div>

    </div>

  </div>


  <div class="col-md-2" ></div>

</div>



<?php include('footer.php'); ?>
```

Sales List

Figure3. 4

In new sales,we have a table . In it we can see all the medics that have been sale with the reference number such as #, total amount , date.

Coding of sale

```php
<?php include('header.php'); ?>
<?php include('topnav.php'); ?>
```

```php
<?php include('sidenav.php'); ?>
<div class="row" style="margin-top: 50px;">



    <div class="col-md-2" ></div>


    <div class="col-md-8" >
        <div class="card bg-warning" style="width:100%; " >


            <div class="card-body">
                <h5 class="card-title">Sales list</h5>


    <table class="table" id="sales_list_tbl">
 <thead class="thead-dark">
  <tr>
    <th scope="col">#</th>
    <th scope="col">Total Amount</th>
    <th scope="col">Date</th>


  </tr>
 </thead>
 <tbody>



  <?php
  include('db_connect.php');
  $sql = "SELECT `id`, `total_amount`, `date` FROM `invoice`  ";
$result = $conn->query($sql);

if ($result->num_rows > 0) {
 // output data of each row
  while($row = $result->fetch_assoc()) {
```

```php
echo "<tr>
    <td>".$row["id"]."</td>
    <td>".$row["total_amount"]."</td>
    <td>".$row["date"]."</td>


  </tr>";
 }
} else {
 echo "0 results";
}


    ?>



  </tbody>
</table>



            </div>
        </div>
    </div>
    <div class="col-md-2" ></div>

</div>



<?php include('footer.php'); ?>
```

Inventory

Figure3. 5

In pharmacy operations, inventory is referred to the stock of pharmaceutical products retained to meet future demand. Inventory represents the largest current asset, as well as liquid asset in pharmacy practice and its value continues to rise because of the growth in variety and cost of pharmaceutical products

We can also search any medicine with the help of search box .

Coding of inventory

<?php include('header.php'); ?>

```php
<?php include('topnav.php'); ?>
<?php include('sidenav.php'); ?>
<div class="row" style="margin-top: 50px;">



    <div class="col-md-2" ></div>


    <div class="col-md-8" >
        <div class="card bg-warning" style="width:100%; " >


            <div class="card-body">
                <h5 class="card-title">Stock Products</h5>


    <input type="text" id="search_id" onkeyup="myFunction()" placeholder="Search for
names..">
    <table class="table" id="product_tbl">
  <thead class="thead-dark">
   <tr>
    <th scope="col">#</th>
    <th scope="col">Name</th>
    <th scope="col">Measurement</th>
    <th scope="col">Quantity</th>
    <th scope="col">Type</th>
    <th scope="col">Description</th>
    <th scope="col">Price</th>
    <th scope="col">Action</th>
   </tr>
  </thead>
  <tbody>



  <?php
  include('db_connect.php');
```

```php
    $sql = "SELECT `id`, `name`, `Measurement`, `quantity`, `type`, `description`, `price` FROM `product`  ";
$result = $conn->query($sql);


if ($result->num_rows > 0) {
 // output data of each row
  while($row = $result->fetch_assoc()) {


echo "<tr>
    <td>".$row["id"]."</td>
    <td>".$row["name"]."</td>
    <td>".$row["Measurement"]."</td>
    <td>".$row["quantity"]."</td>
    <td>".$row["type"]."</td>
    <td>".$row["description"]."</td>
    <td>".$row["price"]."</td>
    <td>
    <a
href='edit_product.php?id=".$row["id"]."&name=".$row["name"]."&Measurement=".$row["Mea
surement"]."&quantity=".$row["quantity"]."&type=".$row["type"]."&description=".$row["descri
ption"]."&price=".$row["price"]."'
      class='btn btn-success'  >Edit</a></td>
  </tr>";
 }
} else {
 echo "0 results";
}


    ?>




 </tbody>
</table>
```

```
            </div>

        </div>

    </div>

    <div class="col-md-2" ></div>


</div>
<?php include('footer.php'); ?>
```

Add Medicine

Figure3. 6

Name(in this text box we write the name of the medicine)

Quantity(in this text box we write the quantity of medicine)

Type(in this text box we select which type of medicine e.g. drops, tablet)

Description(in this description box we describe about the medicine for which is used)

Product price(In this text box we write the price of medicine such as Panadol price is 20)

Submit button(we have submit button that is used to send the details)

Coding of Add medicine

```php
<?php include('header.php'); ?>
<?php include('topnav.php'); ?>
<?php include('sidenav.php'); ?>


<?php if (isset($_GET['done'])) {
  ?>
  <script> alert('product inserted');</script>
  <?php }
?>


<div class="row" style="margin-top: 50px;" >
  <div class="col-md-3" ></div>
  <div class="col-md-6 card" style="width: 100%; border-radius: 5%;"  >



    <form style="padding:50px;" method="post" action="addproduct.php">
      <div class="form-group">
        <label  >Name</label>
        <input type="text" class="form-control" placeholder="Name" name="name">
      </div>
      <div class="form-group">
        <label >Measurement</label>
        <input    type="number"   class="form-control"   placeholder="Measurement" name="measurement">
      </div>
      <div class="form-group">
        <label  >Quantity</label>
        <input type="number" class="form-control" placeholder="Quantity" name="quantity">
      </div>
      <div class="form-group">
        <label  >Type</label>
        <Select  class="form-control"   name="type">
```

```
                <option value='Liquid' >Liquid</option>

                <option value='Capsule' >Capsule</option>

                <option value='Drops' >Drops</option>

                <option value='Tablet' >Tablet</option>

                <option value='Sample Type' >Sample Type     </option>


            </select>
        </div>


        <div class="form-group">

            <label  >Description</label>

            <textarea            class="form-control"            placeholder="Description"
name='description'></textarea>

        </div>

        <div class="form-group">

            <label  >Product Price</label>

            <input    type="number"    class="form-control"    placeholder="Product    Price"
name="price">

        </div>


        <button type="submit" class="btn btn-primary" name="addproduct">Submit</button>

    </form>


   </div>

   <div class="col-md-3" ></div>

</div>

<?php include('footer.php'); ?>
```

Manage users

In this Manage users, we can see the user list also see the user reference number, user name, user password , user Action. We have a button of edit user .

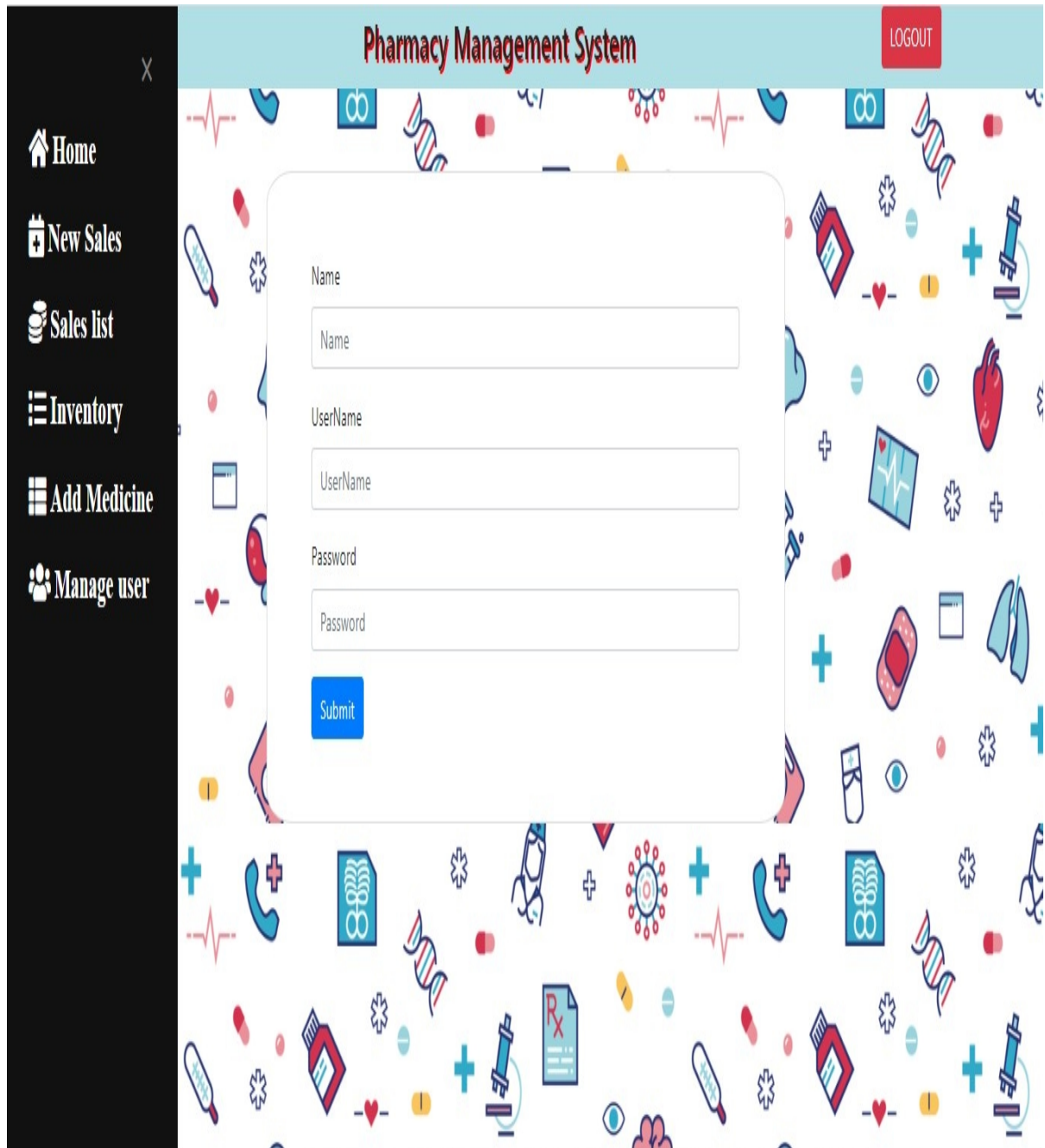With the help of edit we can change the name , user name and password.

We have also a button of add new user, with the help of add new user button we can add new user with name ,username, and password.

Coding of user

<?php include('header.php'); ?>

```php
<?php include('topnav.php'); ?>
<?php include('sidenav.php'); ?>


<div class="row" style="margin-top: 50px;">


  <div class="col-md-2"></div>
  <div class="col-md-8">
    <div class="card bg-warning" style="width:100%; " >


      <div class="card-body">
        <h5 class="card-title">Users List <a class="btn btn-primary" href="createuser.php" >Add New</a></h5>


        <table class="table">
          <thead class="thead-dark">
            <tr>
              <th scope="col">#</th>
              <th scope="col">Name</th>
              <th scope="col">UserName</th>
              <th scope="col">Password</th>
              <th scope="col">Action</th>



            </tr>
          </thead>
          <tbody>



            <?php
            include('db_connect.php');
            $sql = "SELECT `id`, `name`, `username`, `password` FROM `user`";
            $result = $conn->query($sql);
```

```php
        if ($result->num_rows > 0) {
            // output data of each row
            while ($row = $result->fetch_assoc()) {

                echo "<tr>
                    <td>" . $row["id"] . "</td>
                    <td>" . $row["name"] . "</td>
                    <td>" . $row["username"] . "</td>
                    <td>" . $row["password"] . "</td>
                    <td>
    <a
href='edit_user.php?id=".$row["id"]."&name=".$row["name"]."&username=".$row["username"].
"&password=".$row["password"]."'
        class='btn btn-success'  >Edit</a></td>


                </tr>";
            }
        } else {
            echo "0 results";
        }
        ?>



        </tbody>
    </table>



    </div>
    </div>
```

```
    </div>


  <div class="col-md-2"></div>




</div>




<?php include('footer.php'); ?>
```

Invoice

Figure3. 9

The **pharmacy invoice** is used to bill a patient for a prescription filled on a per pill basis.

the patient will be required to pay the amount at the time of pickup.

Chapter 04

SYSTEM TESTING

Testing

After the successful implementation of the system the next step most important and last phase of the system development life cycle is system testing.

System Testing

System testing is a type of testing in which the system is checked according to its specific Requirements and functions

The system modeling is checked. Either it's worked properly. All the end-user requirements are tested and the tester debug all the system

Black Box Testing

Black box testing is a method in which the functionality of the system is checked without getting into the internal system or without getting in touch with the code source. It is checked whether the developed website is professional or not

White Box Testing

White box testing is the type of testing in which the tester check the internal source code.   The code is enhanced and different data structures and algorithms are checked. The   speed optimization of the code is checked.

Test Cases:
Login Test Caser 1:

Test Case ID	Test Scenarios	Test Steps	Test Data	Expected Result	Actual Result	P/F
TC – 1	Sign up with data entered	• Username(empty) • Password(empty)	Role: Employer Username: Password:	Successfully	As Expected	P

Table 4. 1 login test case

Login Test Case 2:

Test Case ID	Test Scenarios	Test Steps	Test Data	Expected Result	Actual Result	P/F
TC – 2	Login with data entered	• Username (correct) • Password(correct)	Role: Employer Username: faizan Password: 000000	Successfully Login	As expected	P

Table 4. 2 login test case

Login Test Case 3:

Test Case ID	Test Scenarios	Test Steps	Test Data	Expected Result	Actual Result	P/F
TC – 3	Login with data entered	• Username (correct) • Password(empty)	Role: Employer Username: faizan Password:	Successfully	As expected	p

Table 4. 3 login test case

Login Test Case 4:

Test Case ID	Test Scenarios	Test Steps	Test Data	Expected Result	Actual Result	P/F
TC – 4	Login with data entered	• Username(empty) • Password(correct)	Role: Employer Username: Password: 000000	Successfully	As expected	p

Table 4. 4 login test case

Login Test Case 5:

Test Case ID	Test Scenarios	Test Steps	Test Data	Expected Result	Actual Result	P/F
TC – 4	Login with data entered	• Username(empty) • Password(empty)	Role: Employer Username: Password:	Successfully	As expected	P

Table 4. 5 login test case

Login Test Case 6:

Test Case ID	Test Scenarios	Test Steps	Test Data	Expected Result	Actual Result	P/F
TC – 4	Login with data entered	• Username(incorrect) • Password(incorrect)	Role: Employer Username: asfgveg Password: zvdsdgqeqea	Successfully	As expected	P

Table 4. 6 login test case

Sales Test Case 1:

Test Case ID	Test Scenarios	Test Steps	Test Data	Expected Result	Actual Result	P/F
TC – 1	Add medicine in a list with data entered	• Product(empty) • Qty(empty)	Role: Employer Product: Qty:	Successfully	As expected	P

Table 4. 7 sales test case

Sales Test Case 2:

Test Case ID	Test Scenarios	Test Steps	Test Data	Expected Result	Actual Result	P/F
TC – 2	Add medicine in a list with data entered	• Product(correct) • Qty(empty)	Role: Employer Product: Panadol | 6 Qty:	Successfully	As expected	P

Table 4. 8sales test case

Sales Test Case 3:

Test Case ID	Test Scenarios	Test Steps	Test Data	Expected Result	Actual Result	P/F
TC – 3	Add medicine in a list with data entered	• Product(empty) • Qty(correct)	Role: Employer Product: Qty: 6	Successfully	As expected	P

Table 4. 9 sales test case

Sales Test Case 4:

Test Case ID	Test Scenarios	Test Steps	Test Data	Expected Result	Actual Result	P/F
TC – 4	Add medicine in a list with data entered	• Product(correct) • Qty (correct)	Role: Employer Product: Panadol | 6 Qty: 6	successfully add to list	As expected	P

Table 4. 10sales test case

Add Medicine Test Case 1

Test Case ID	Test Scenarios	Test Steps	Test Data	Expected Result	Actual Result	P/F
TC – 1	Add Medicine with data entered	• Name(empty) • Measurement(empty) • Quantity(empty) • Type(empty) • Description(empty) • Product Price(empty)	Role: Employer Name: Measurement: Quantity: Type: Description: Product Price:	Successfully	As expected	P

Table 4. 11 Add Medicine Test Case

Add Medicine Test Case 2

Test Case ID	Test Scenarios	Test Steps	Test Data	Expected Result	Actual Result	P/F
TC – 1	Add Medicine with data entered	- Name(correct) - Measurement(correct) - Quantity(correct) - Type(correct) - Description(correct) - Product Price(correct)	Role: Employer Name: Panadol Measurement: 20mg Quantity: 12 Type: Tablet Description: headpin Product Price: 20	Successfully Add medicine	As expected	P

Table 4. 12 Add Medicine Test Case

Add Medicine Test Case 3:

Test Case ID	Test Scenarios	Test Steps	Test Data	Expected Result	Actual Result	P/F
TC – 1	Add Medicine with data entered	- Name(correct) - Measurement(empty) - Quantity(correct) - Type(empty) - Description(empty) - Product Price(correct)	Role: Employer Name: Panadol Measurement: Quantity: 12 Type: Description: Product Price: 20	Successfully	As expected	P

Table 4. 13 Add Medicine Test Case