# **Pharmacy Management System**

# **Group No 10**

## **ICT 2304**

# Object Oriented Programming 2017/2018 Batch

Department of Information & Communication Technology

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1. Project Introduction

This system is very useful to the pharmacy to handle implementation of the

pharmacy. The owner(admin) and workers(cashiers) of the pharmacy can log into this

system. These two persons have unique username and password to log into system.as well

as admin can add many workers into system and maintain whole system. The workers can

use the system within limit. Therefore there is best security guard to protect.

The workers' details are stored in the system and they can view any time but one of

the worker can not view other worker's details.as well as Admin can view all of the

workers' details.

The medicine information, suppliers' details, daily transactions are stored in

database and this information can be viewed by admin.

After analyzing the above conditions, we create this system as a solution for those

problems. Here, to improve efficiency of the people. We can protect our resources.

**System Roles:** 

Admin:

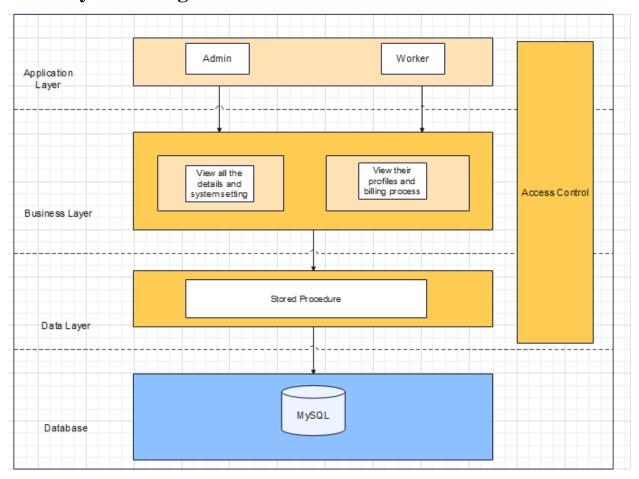
Admin is the owner of the pharmacy.

User:

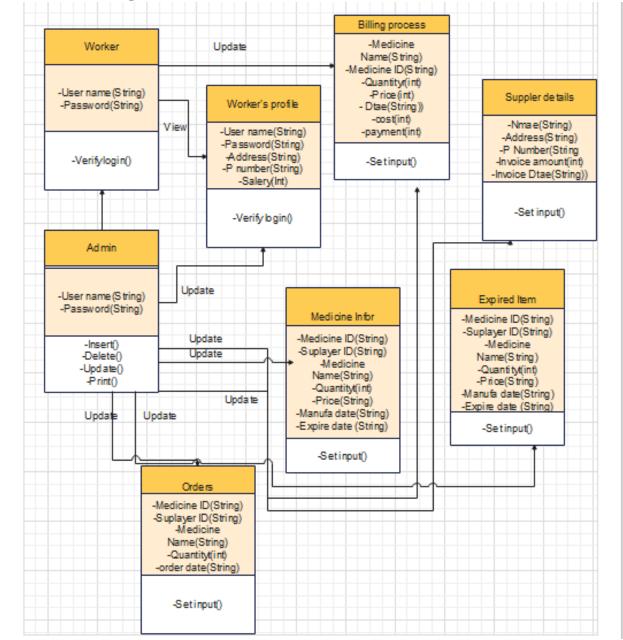
The workers of the pharmacy.

4

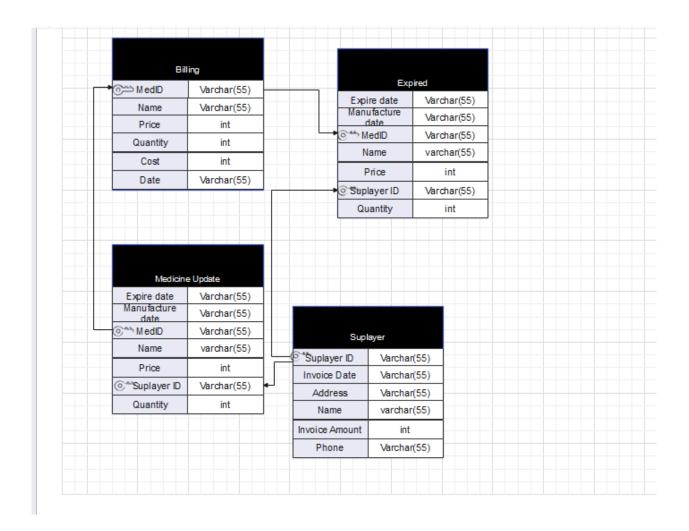
## 2. System Design



3. Class Diagram

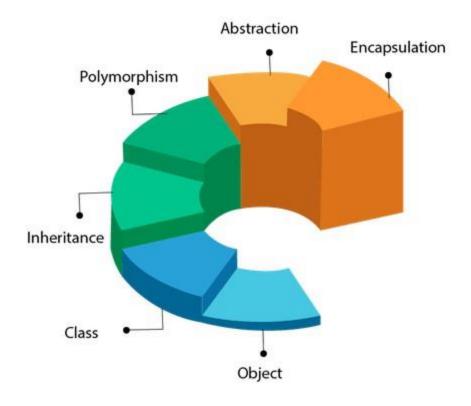


#### 4. Database Design



## **5.System Demonstration**

## a. Application of the OOP Concepts



#### **Object:**

```
public void search12(String str){
   model=(DefaultTableModel) mtable.getModel();
   TableRowSorter<DefaultTableModel> trs=new TableRowSorter<>(model);
   mtable.setRowSorter(trs);
   trs.setRowFilter(RowFilter.regexFilter(str));
```

}

```
private void mtableMouseClicked(java.awt.event.MouseEvent evt) {
     // TODO add your handling code here:
     DefaultTableModel model=(DefaultTableModel)mtable.getModel();
     int myidex=mtable.getSelectedRow();
      int d1=mtable.getSelectedRow();
      Date date2, date1;
       id.setText(model.getValueAt(myidex,0).toString());
    name.setText(model.getValueAt(myidex, 1).toString());
     qty.setText(model.getValueAt(myidex, 2).toString());
     price.setText(model.getValueAt(myidex, 3).toString());
     try {
         date2 = new SimpleDateFormat("YYYY-MM-dd").parse((String)model.getValueAt(d1, 4));
         date1 = new SimpleDateFormat("YYYY-MM-dd").parse((String)model.getValueAt(d1, 5));
         mdate.setDate(date2);
         edate.setDate(date1);
     } catch (ParseException ex) {
         Logger.getLogger(expired2.class.getName()).log(Level.SEVERE, null, ex);
     sid.setSelectedItem(model.getValueAt(myidex, 6).toString());
```

#### **Class and Inheritance:**

```
public class billing1 extends javax.swing.JFrame {
7
     public billing1() {
          initComponents();
          selectMed1();
          selectMed();
    DefaultTableModel model, model1;
    String old:
    int x=1,pay1=0,cost=0;
    public void selectMed1(){
          try{
              Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmarcy", "root", "");
              Statement st=con.createStatement();
              ResultSet Rs=st.executeQuery("SELECT * FROM billing");
             mtable1.setModel(DbUtils.resultSetToTableModel(Rs));
          catch(SQLException e) {
              e.printStackTrace();
```

```
public class supler{
String name;
String id;
public supler(String id,String name){
   this.id=id;
   this.name=name;
}

public String toString() {
   return name;
}
```

#### **Polymorphism:**

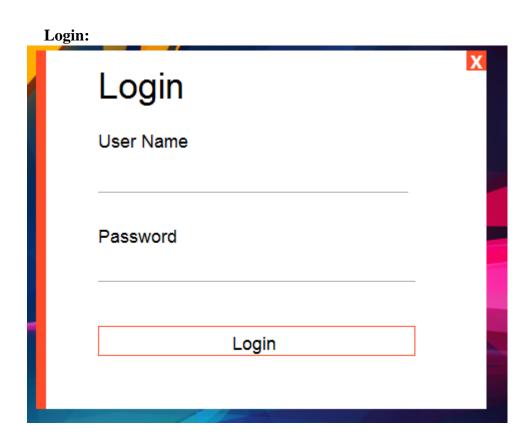
```
]
     public expired2() {
        initComponents();
     String name12;
]
     public expired2(String name) {
         initComponents();
         connect();
         this.name12=name;
         selectMed();
         loadSupler();
    }
     Connection con;
     PreparedStatement pst;
     ResultSet rs;
     DefaultTableModel model;
```

#### **Encapsulation:**

```
private void delete1MouseExited(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
    delete1.setBackground(new Color(255,76,41));
}
```

#### **b.** Interfaces

There are different technologies to create a Graphical User Interface. In the light of that, I have used Java, MySQL, xampp server and NetBeans ,launch4j , inno setup to create a Graphical User Interface.



When the Admin and worker (cashier) access the system they will be shown unique home pages to each other.

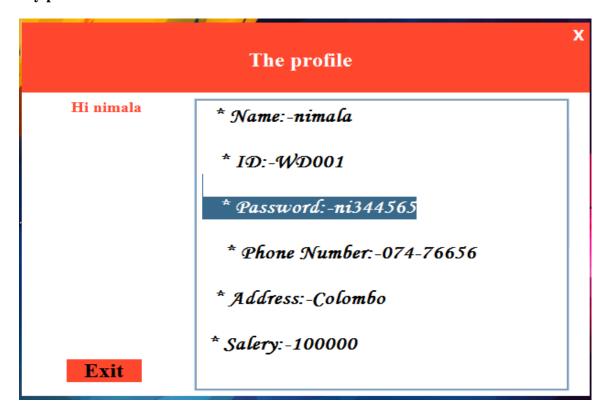
If it is worker of the pharmacy, he or she can see below interface and this interface can be used to do their works according to deuty.

#### Cashier'home page:



The cashier can use my profile and billing process interfaces in this system. If cashier view my profile . He or She can see he's details or she's details but they can not change the details. Only admin can change information of workers.

#### My profile:



They can go back to home page by clicking Exit button.

#### **Billing process Page:**



This page is completed all daily transactions by cashier.

When Admin log into the system.

#### **Admin home Page:**



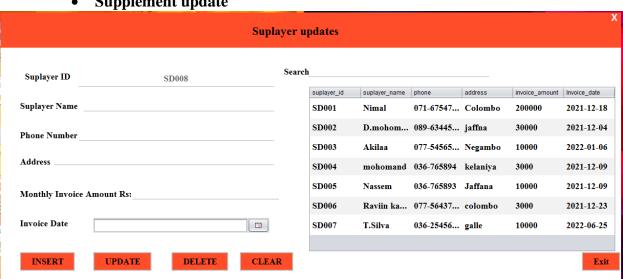


Admin can move anywhere in this system using home page of admin. There are five interfaces here.

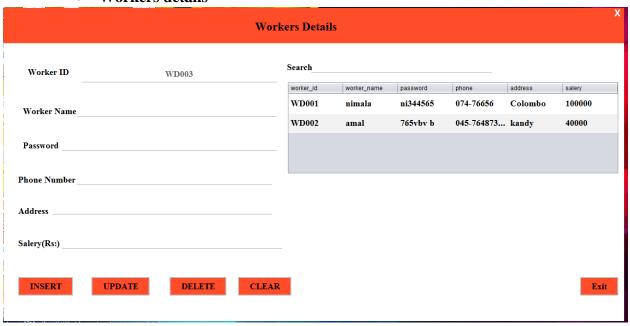
#### Medicine update

		Medicine	Updates						х
Medicine ID	MD016	Searc	ch						
			medice_id	medicne_n	quntity	price	Manufacture	Exppire_Date	suplayer_id
Suplayer ID	NY 1		MD001	Vitami	4000	50000	2021-12	2021-12	Nimal
Suplayer 1D	Nimal		MD002	panadol	4500	50000	2021-12	2021-12	D.moh
Medicine Name			MD003	FDR400	9000	40000	2021-12	2022-12	Akilaa
Quantity		MD004	GT34	400	56	2021-12	2021-12	D.moh	
		MD005	DHT1	1000	45	2021-12	2022-12	D.moh	
Price			MD006	Faica	2000	4000	2022-12	2023-12	Akilaa
Manufacture D	ate		MD007	Vitami	10000	6	2022-12	2023-01	Nimal
Exppire Date			MD010	bgdvx	300	49	2018-12	2021-12	D.moh
			MD011	Avr	23	1000	2021-12	2022-12	mohom
INSERT	UPDATE	CLEAR							Exit

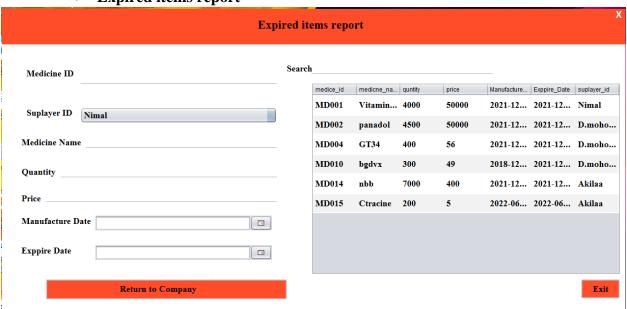
#### Supplement update



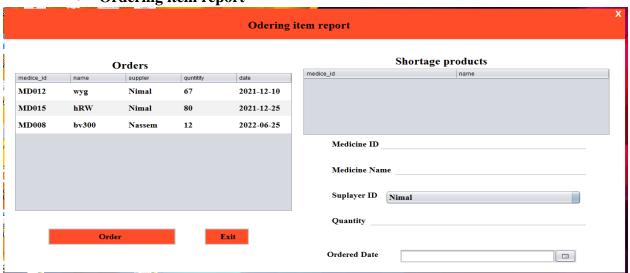
#### • Workers details



• Expired items report



• Ordering item report



In this pages, Admin can

**Insert:** By clicking "insert" button admin can add new information to the database.

**Update:** The admin can change /update previously entered information by clicking "update" button.

**Delete:** The admin can delete entered information by clicking "delete" button.

**Clear:** If admin wants to clear that data that he/she have already added and reenter data, then admin should click the "Clear" button and can reset data.

**Print:** when admin click the "print" button then he/she gets a feedback of printing details.

#### c. System Codes

#### **Delete:**

```
delete1.setBackground(Color.white);
          if(id.getText().isEmpty()){
           JOptionPane.showMessageDialog(this, "Enert id to be delete");
        else{
    try{
       Class.forName("com.mysql.jdbc.Driver");
       Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmarcy", "root", "");
       PreparedStatement pst=con.prepareStatement("DELETE FROM mupdate WHERE medice_id=?");
       pst.setString(1,id.getText());
       pst.executeUpdate();
       selectMed();
       autoId();
       name.setText(null);
       qty.setText(null);
      price.setText(null);
      mdate.setCalendar(null);
      edate.setCalendar(null):
       sid.setSelectedIndex(-1);
       JOptionPane.showMessageDialog(null, "Deletion successful");
<
```

#### **Insert:**

```
private void insertMouseClicked(java.awt.event.MouseEvent evt) {
      // TODO add your handling code here:
      insert.setBackground(Color.white);
      DefaultTableModel model=(DefaultTableModel)mtable.getModel();
      trv{
      Class.forName("com.mysql.jdbc.Driver");
      Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmarcy", "root", "");
      PreparedStatement pst=con.prepareStatement("insert into mupdate values(?,?,?,?,?,?,?)");
      supler sup=(supler)sid.getSelectedItem();
      pst.setString(1,id.getText());
      pst.setString(2,name.getText());
      pst.setString(3,qty.getText());
      pst.setString(4,price.getText());
      SimpleDateFormat df=new SimpleDateFormat("YYYY-MM-dd");
      String date1=df.format(mdate.getDate());
      String date2=df.format(edate.getDate());
      pst.setString(5,date1);
      pst.setString(6,date2);
      pst.setString(7,sid.getSelectedItem().toString());
      pst.executeUpdate();
      selectMed();
      autoId();
      name.setText(null);
     qty.setText(null);
     price.setText(null);
     mdate.setCalendar(null);
     edate.setCalendar(null);
    sid.setSelectedIndex(-1);
      JOptionPane.showMessageDialog(null, "successful");
```

.....END.....