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This is to certify that the Dissertation entitled

Zenith Pharmaceutical Application

was succesfully carried out by

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Internal Examiner External Examiner Principal

**Introduction**

Introduction

Over the past decade, virtually every major industry invested heavily in computerization. Yet, despite these advances in our society, the majority of customers are given handwritten medication prescriptions. Electronic health record (EHR) systems have the potential to transform the health care system from a mostly paper-based industry to one that utilizes clinical and other pieces of information to assist providers in delivering higher quality of care to their customers

Why we need EHR’s

In automated pharmacist order entry systems, pharmacists enter orders directly on the computer. Compared with manual systems, advantages are that, orders are legible, transcription is eliminated, the writer can be identified, and orders can rapidly be routed to their destinations. But most importantly, pharmacists order entry allows order checking and provision of decision support to the client in real time.

EHR decreases delay in order completion, reduces errors related to handwriting or transcription, allows order entry at the point of care or off-site, provides error-checking for duplicate or incorrect doses or tests, and simplifies inventory and posting of charges. EHR is a form of customer management software.

Aim of the project

**The aim of this project is to create software similar to an EHR that would carry out minimum functions required by the user.**

System Requirement

1. NetBeans IDE (Version > 6.0)
2. MySql Server (Version > 5.0)
3. MySql Connector J
4. MySql Administrator

**E-R Diagrams**

CUSTOMER SETINGS

ADMIN SETTINGS

MANUFACTURER SETTINGS

TRANSACTION OPTIONS

MEDICINE SETTINGS

NEW USER

LOGIN

MENU

NEW ADMIN

LOGIN

MENU PAGE

Customer Details

ADMIN SETTINGS

MANUFACTURER SETTINGS

TRANSACTION OPTIONS

MEDICINE SETTINGS

CUSTOMER SETINGS

LOGOUT

EDIT ACCOUNT

ADMIN DETAILS

Manufacturer Details

Order Product

New Purchase

Sales History

Medicines available

Add Medicines

Update Customer

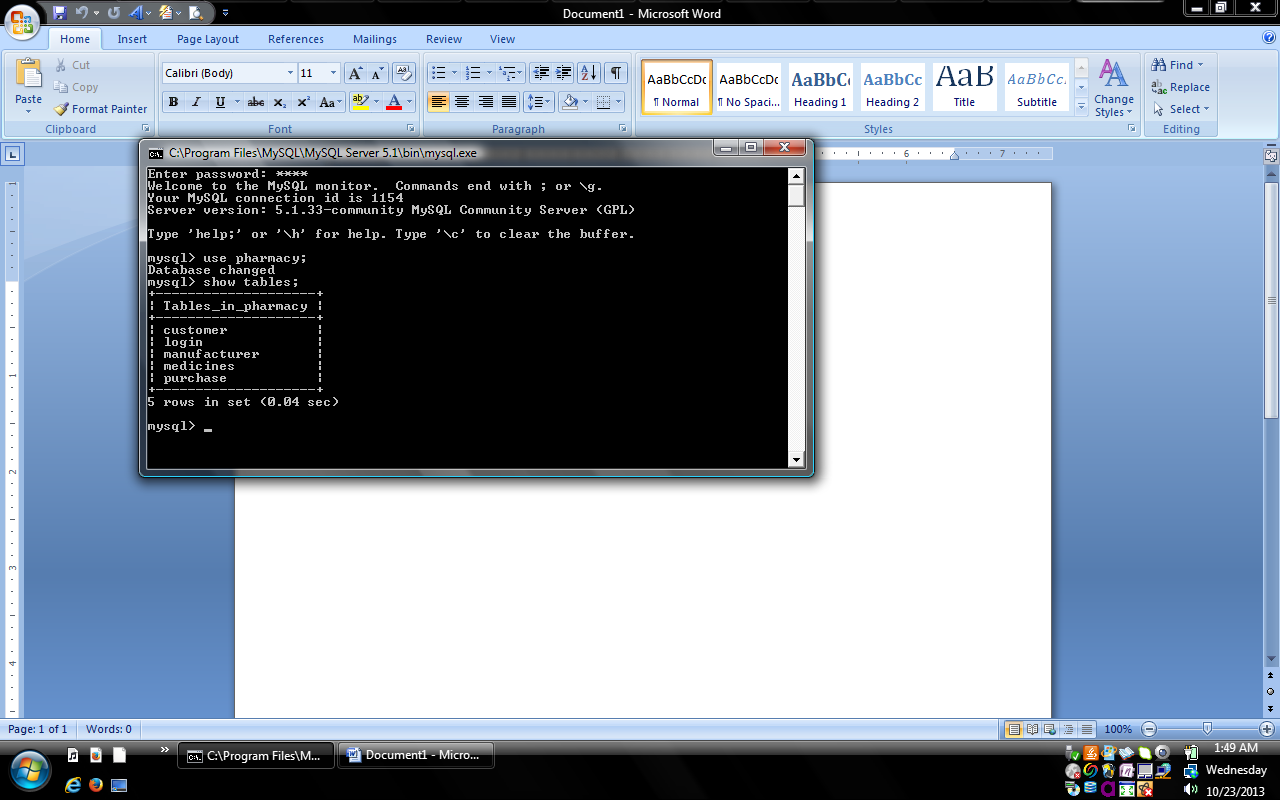
New Customer

Search Customer

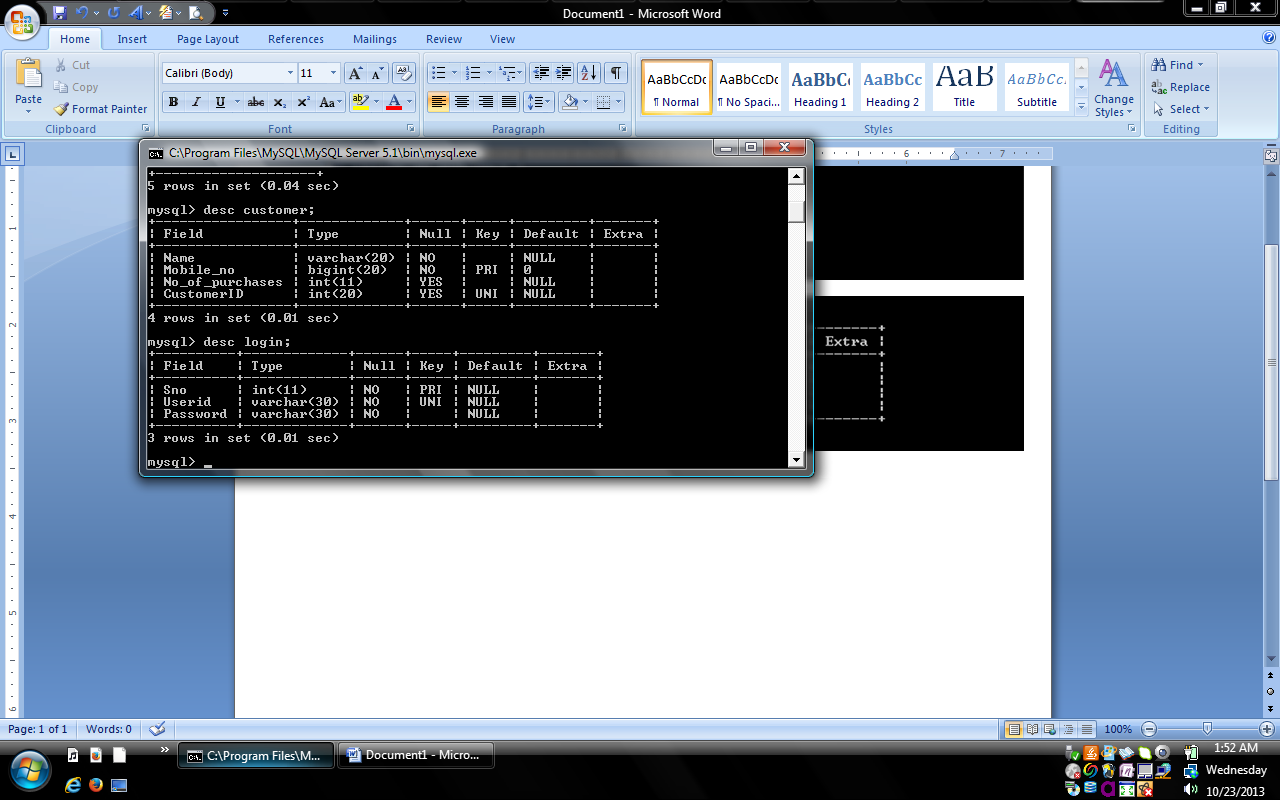
**Database**

**Screenshots**

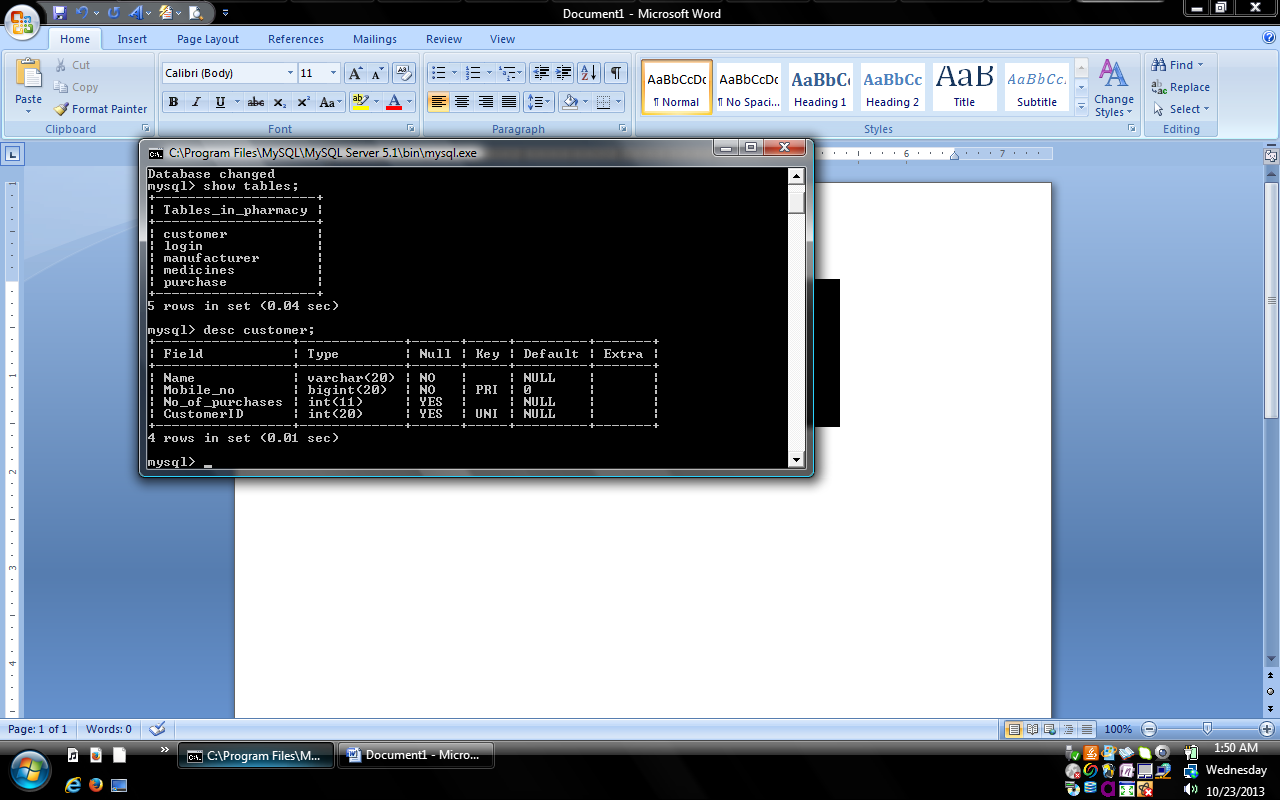
**Tables in database “Pharmacy” :**



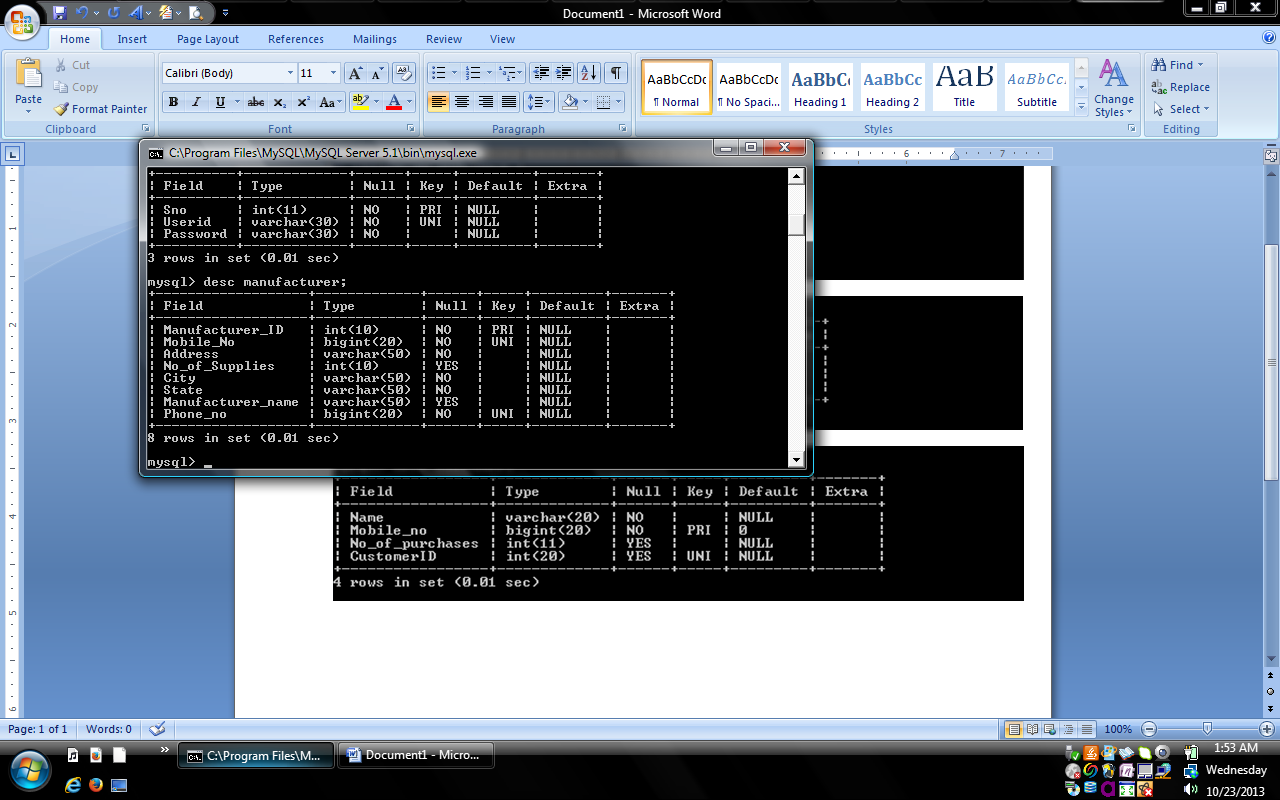
**Login Table :**



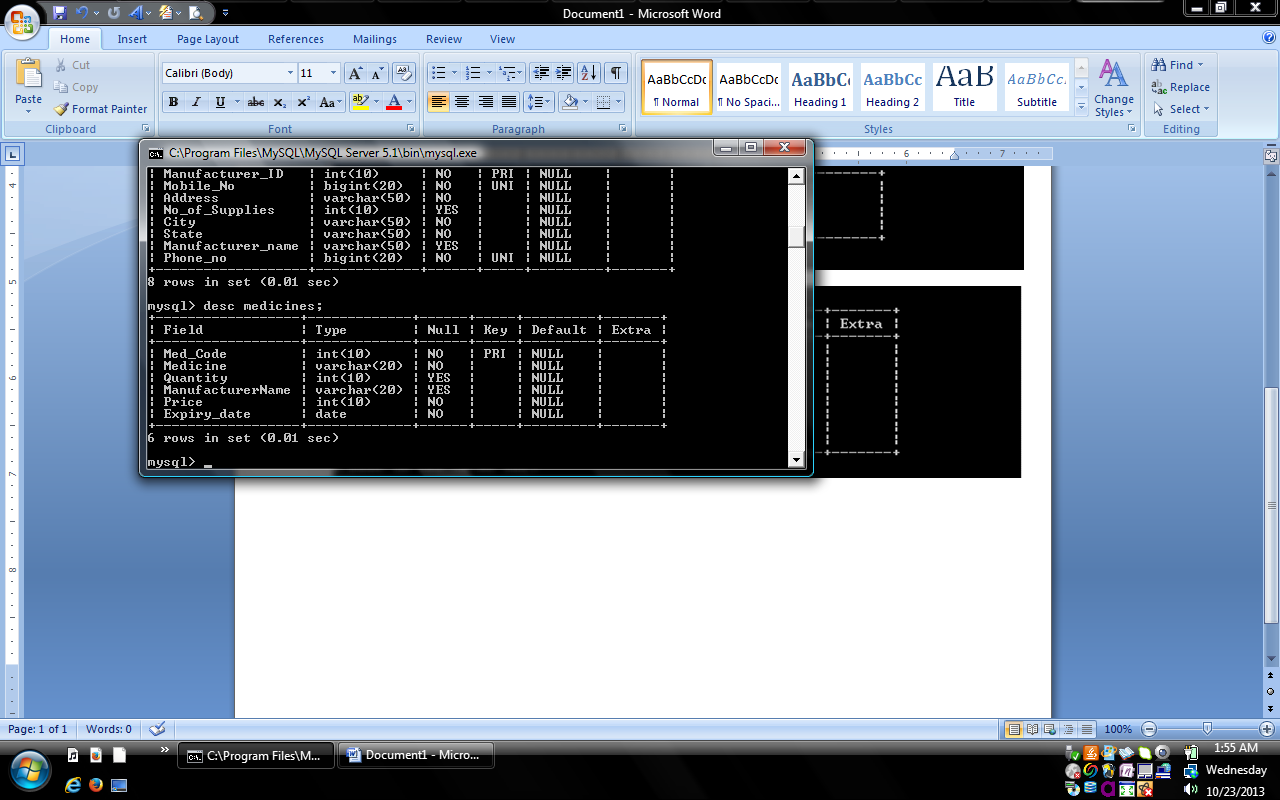
**Customer Table :**



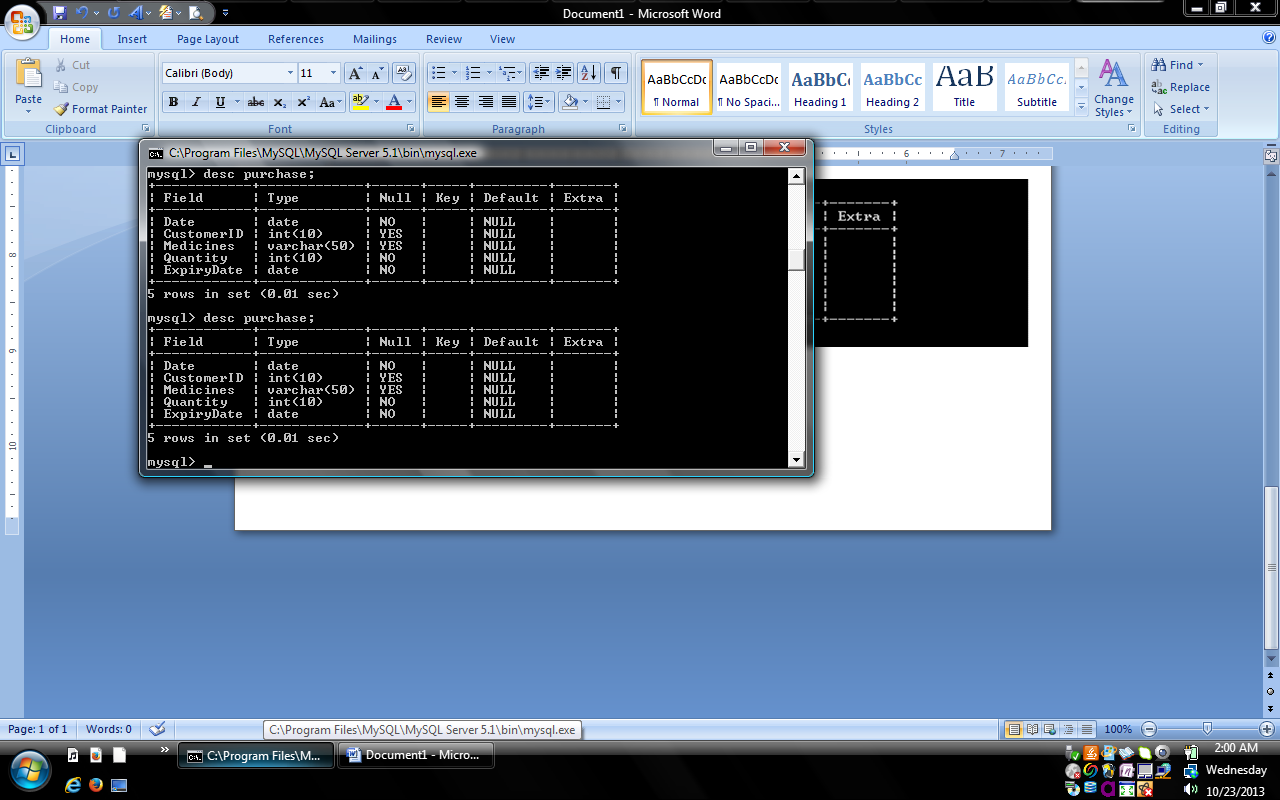
**Manufacturer Table :**



**Medicines Table :**



**Purchase Table :**

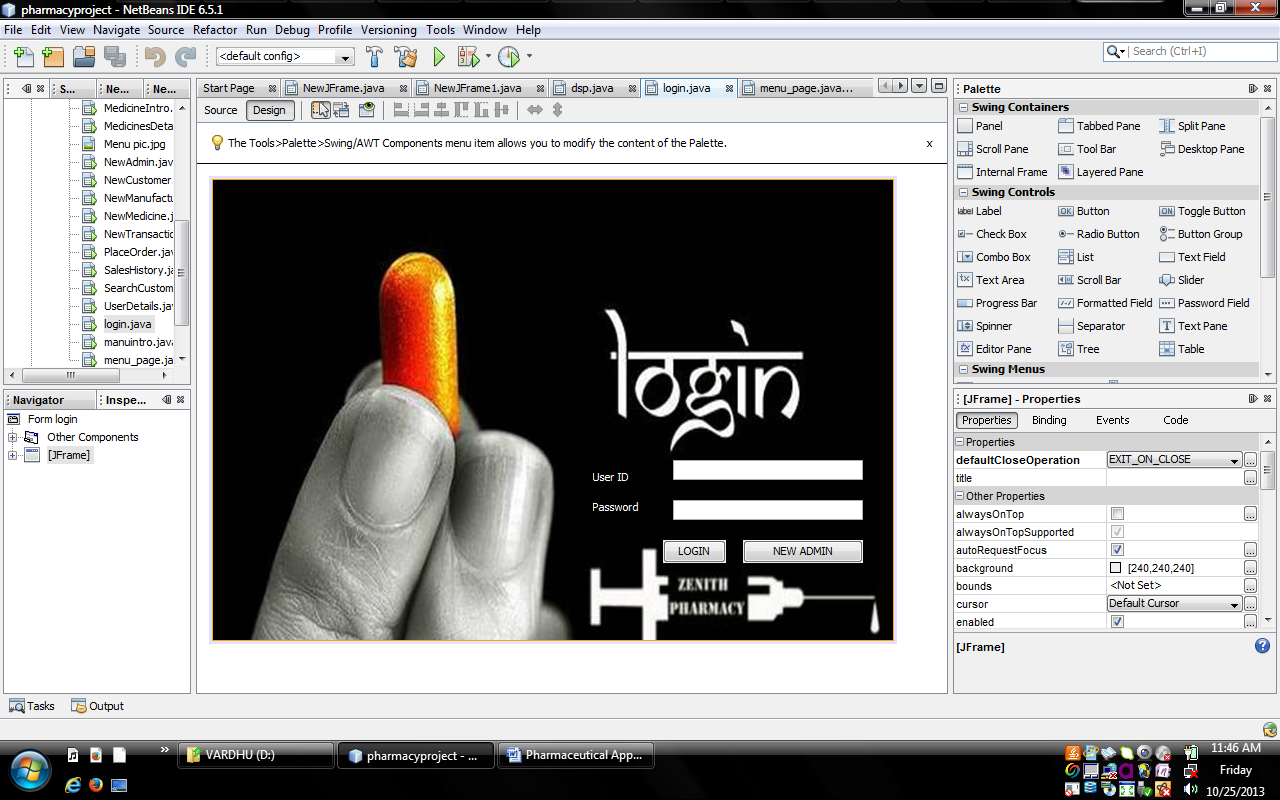


**Source Codes**

**&**

**Screenshots**

**LOGIN :**



**//Creating a “Main Class”:**

public class BasisClass {

public static int manu\_id,itemcount,S\_no,customerid,customer\_purchases,med\_code;

public static StringBuffer id=new StringBuffer();

public static StringBuffer pwd=new StringBuffer();

}

**//Imported Statements :**

import javax.swing.JOptionPane;

import java.sql.\*;

**//Creating Global Variables:**

Int c=0;

**//Code for “Login” button:**

if (jTextField1.getText().equals("")||jPasswordField1.getPassword().equals(""))

JOptionPane.showMessageDialog(null, "UserID or Password not entered.Please Try Again");

else{

try{

String uid=jTextField1.getText();

String pass=new String(jPasswordField1.getPassword());

Class.forName("java.sql.DriverManager");

Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacy","root","team");

Statement stmt=con.createStatement();

String query="select \* from login;";

ResultSet rs=stmt.executeQuery(query);

while (rs.next()){

String userid=rs.getString("Userid");

String password=rs.getString("Password");

if (userid.equals(uid)&& password.equals(pass)){

BasisClass.id=new StringBuffer(uid);

BasisClass.pwd=new StringBuffer(pass);

BasisClass.S\_no=rs.getInt("Sno");

new menu\_page().setVisible(true);

dispose();

c++;}}

if(c==0)

{JOptionPane.showMessageDialog(null, "Wrong User ID or Password. Try again");

jTextField1.setText("");

jPasswordField1.setText("");

}}

catch (Exception e){

JOptionPane.showMessageDialog(null, e.getMessage());}

**//Code for New User Button:**

new NewUser().setVisible(true);

dispose() ;

**//Code for Exit Button:**

dispose() ;

**MENU :** 

**MENU ITEMS:**

* Admin
* Manufacturer
* Customer
* Medicines
* Transactions

**MENU-ADMIN:**

**//Code for “Admin Details” :**

new AdminDetails().setVisible(true);

dispose();

**//Code for “Edit Account” :**

new EditAdmin().setVisible(true);

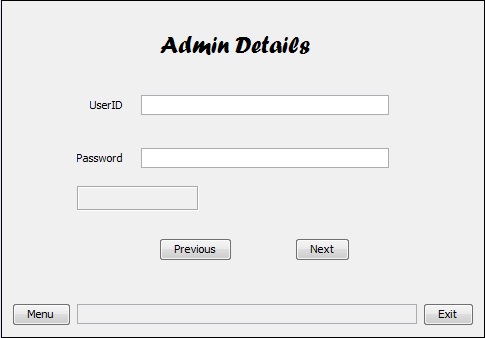
dispose();

**//Code for “Logout” :**

new login().setVisible(true);

dispose();

**Admin Details:**

****

**//Imported Statements:**

import java.sql.\*;

import javax.swing.JOptionPane;

**//Creating “Display()” method:**

int c=0;

private void Display()

{

try{

jTextField1.setText(rs.getString("Userid"));

jTextField2.setText(rs.getString("Password"));

record.setText("Record Position:"+rs.getRow()+"/"+rowcount);

}

catch(Exception e)

{JOptionPane.showMessageDialog(null,e.getMessage());

}}

**//Code for “formWindowGainedFocus”:**

try{

Class.forName("java.sql.DriverManager" );

Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacy","root","team");

Statement stmt=con.createStatement();

String query="select \* from login;";

rs=stmt.executeQuery(query);

while(rs.next()){

rowcount=rs.getInt(1);}

rs.first();

Display();

}

catch(Exception e)

{JOptionPane.showMessageDialog(null,e.getMessage());

}

**//Code for “Previous” button:**

try{

if(rs.isFirst()==true)

{JOptionPane.showMessageDialog(null,"Already first record");}

else

{rs.previous();

Display();

}}

catch(Exception e)

{JOptionPane.showMessageDialog(null,e.getMessage());

}

**//Code for “Next” button:**

try{

if(rs.isLast()==true)

{JOptionPane.showMessageDialog(null,"Already last record");

c++;

}

else

{rs.next();

Display();

}}

catch(Exception e)

{JOptionPane.showMessageDialog(null,e.getMessage());

}

**//Code for “Exit” button:**

dispose();

**//Code for “Menu” button:**

new menu\_page().setVisible(true);

dispose();

**Edit Account:**



**//Imported Statements:**

import java.sql.\*;

import javax.swing.JOptionPane;

**//Code for “formWindowGainedFocus” :**

jTextField1.setText(""+(BasisClass.id));

jPasswordField1.setText(""+(BasisClass.pwd));

jPasswordField2.setText(""+(BasisClass.pwd));

**//Code for “Save” button :**

if(jTextField1.getText().equals("")||jPasswordField1.getPassword().equals("")||jPasswordField2.getPassword().equals(""))

JOptionPane.showMessageDialog(null, "Enter all values before updating");

else{

try{

String uid=jTextField1.getText();

String pass=new String(jPasswordField1.getPassword());

String confpass=new String(jPasswordField2.getPassword());

if(pass.equals(confpass)==true)

{

Class.forName("java.sql.DriverManager" );

Connection con=(Connection)DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacy","root","team");

Statement stmt=con.createStatement();

String query="update login set Userid='"+uid+"',Password='"+pass+"' where Sno='"+BasisClass.S\_no+"';";

stmt.executeUpdate(query);

JOptionPane.showMessageDialog(null,"Record Updated");}

else

JOptionPane.showMessageDialog(null,"Password does not match. Try again.");}

catch(Exception e){

JOptionPane.showMessageDialog(null, e.getMessage());}

new menu\_page().setVisible(true);

dispose();}

**//Code for “Menu” button :**

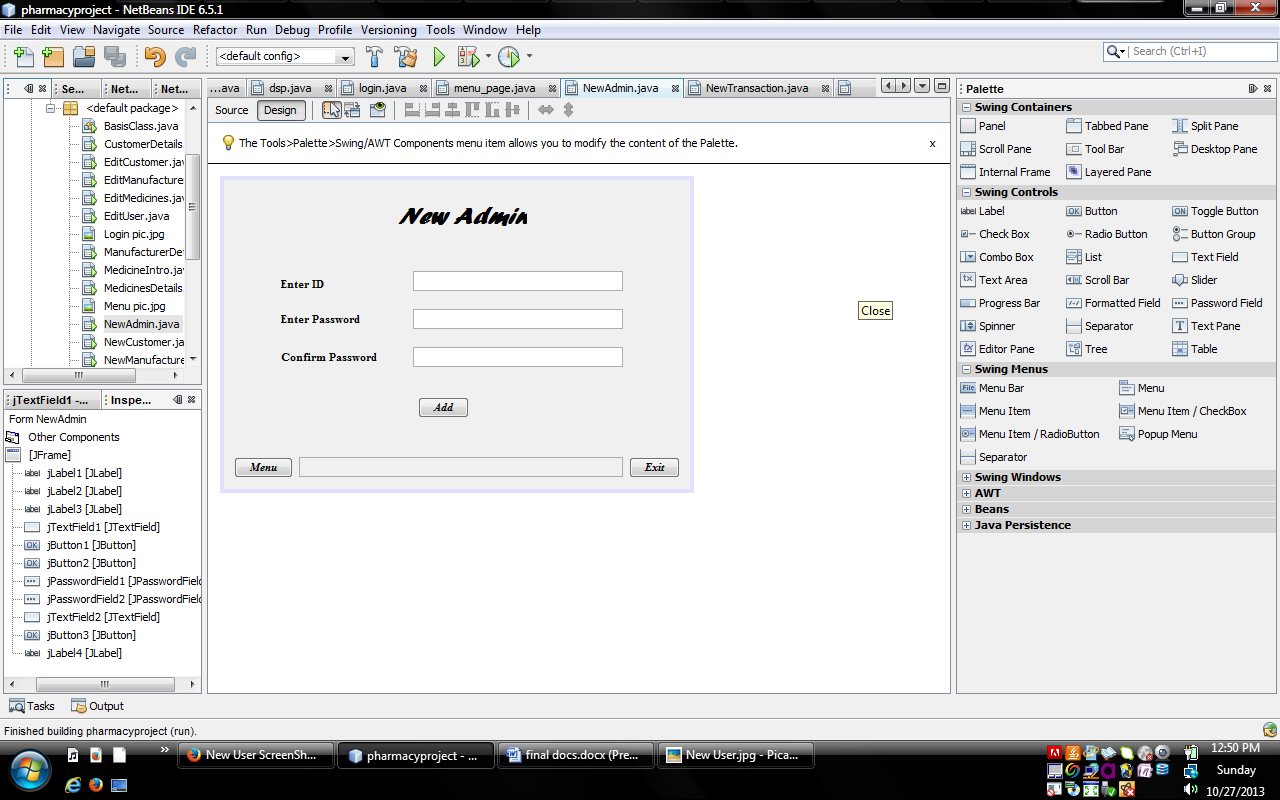
new menu\_page().setVisible(true);

dispose();

**//Code for “Exit” button:**

dispose();

**New Admin:**

****

**//Import Statements :**

import java.sql.\*;

import javax.swing.JOptionPane;

**//Creating Global Variables :**

int rowcount;

**//Code for “Add” button :**

if(jTextField1.getText().equals("")||jPasswordField1.getPassword().equals("")||jPasswordField2.getPassword().equals(""))

JOptionPane.showMessageDialog(null, "Enter all values before updating");

else{

try{

String uid=jTextField1.getText();

String pass=new String(jPasswordField1.getPassword());

String confpass=new String(jPasswordField2.getPassword());

if(pass.equals(confpass)){

Class.forName("java.sql.DriverManager" );

Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacy","root","team");

Statement stmt=con.createStatement();

String query="select \* from login;";

ResultSet rs=stmt.executeQuery(query);

while(rs.next())

{rowcount=rs.getInt("Sno");

}

String sqlquery="insert into login values('"+(rowcount+1)+"','"+uid+"','"+pass+"')";

stmt.executeUpdate(sqlquery);

JOptionPane.showMessageDialog(null, "Record Added");}

else

JOptionPane.showMessageDialog(null, "Cannot add record as Password does not match.");

}

catch (Exception e){

JOptionPane.showMessageDialog(null, e.getMessage());

}

new login().setVisible(true);

dispose();

};

**//Code for “Cancel” button:**

new login().setVisible(true);

dispose();

**Menu-Manufacturer:**



**//Code for “Manufacturer” :**

new MedicineIntro().setVisible(true);

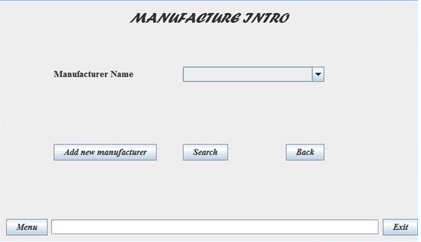
dispose();

**//Code for “Order Product” :**

new NewMedicine().setVisible(true);

dispose();

**Manufacturer-Intro:**



**//Imported Statements:**

import java.sql.\*;

import javax.swing.JOptionPane;

**//Code for ”formWindowGainedFocus” :**

jComboBox1.removeAllItems();

try{

Class.forName("java.sql.DriverManager" );

Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacy","root","team");

Statement stmt=con.createStatement();

String query="select Manufacturer\_name from manufacturer;";

ResultSet rs=stmt.executeQuery(query);

while(rs.next()){

jComboBox1.addItem(rs.getString(1));

}}

catch(Exception e){

JOptionPane.showMessageDialog(null,e.getMessage());

}

BasisClass.itemcount=jComboBox1.getItemCount();

**//Code for “jComboBox1” :**

BasisClass.manu\_id=jComboBox1.getSelectedIndex();

**//Code for “Add New Manufactrer” button :**

new NewManufacturer().setVisible(true);

dispose();

**//Code for “Search” button :**

new ManufacturerDetails().setVisible(true);

dispose();

**//Code for “Menu” button :**

new menu\_page().setVisible(true);

dispose();

**//Code for “Exit” button:**

dispose();

**Manufacturers Details:**



**//Imported Statements:**

import java.sql.\*;

import javax.swing.JOptionPane;

**//Code for “formWindowGainedFocus”:**

try{

jTextField1.setText(""+(BasisClass.manu\_id+1));

jTextField2.setText("Manufacturer"+(BasisClass.manu\_id+1));

String manName=jTextField2.getText();

Class.forName("java.sql.DriverManager" );

Connection con=(Connection)DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacy","root","team");

Statement stmt=con.createStatement();

String query="select \* from manufacturer where Manufacturer\_name='"+manName+"';";

ResultSet rs=stmt.executeQuery(query);

while (rs.next()){

long mobile=rs.getLong("Mobile\_No");

long phone=rs.getLong("Phone\_no");

String address=rs.getString("Address");

String city=rs.getString("City");

String state=rs.getString("State");

int supplies=rs.getInt("No\_of\_Supplies");

jTextField3.setText(""+phone);

jTextField4.setText(""+city);

jTextField5.setText(""+supplies);

jTextField6.setText(""+mobile);

jTextField7.setText(""+address);

jTextField8.setText(""+state);

}}catch(Exception e){

JOptionPane.showMessageDialog(null, e.getMessage());

}

**//Code for “Add New Manufacturer” button:**

new NewManufacturer().setVisible(true);

dispose();

**//Code for “Edit” button:**

new EditManufacturer().setVisible(true);

dispose();

**//Code for “Delete Record” button :**

try{

int manid=Integer.parseInt(jTextField1.getText());

int reply=JOptionPane.showConfirmDialog(null,"Are you sure you want to delete this record?","Confirm",JOptionPane.YES\_NO\_OPTION);

if(reply==JOptionPane.YES\_OPTION)

{

Class.forName("java.sql.DriverManager" );

Connection con=(Connection)DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacy","root","team");

Statement stmt=con.createStatement();

String query="delete from manufacturer where Manufacturer\_ID='"+manid+"';";

stmt.executeUpdate(query);

JOptionPane.showMessageDialog(null,"Record Deleted");

new manuintro().setVisible(true);

dispose();}

else

new manuintro().setVisible(true);}

catch(Exception e){

JOptionPane.showMessageDialog(null, e.getMessage());}

**//Code for “Menu” button :**

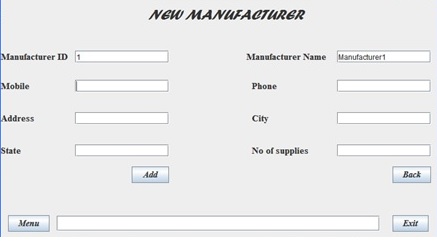
new menu\_page().setVisible(true);

dispose();

**//Code for “Exit” button:**

dispose();

**Add New Manufacturer:**



**//Imported Statements:**

import java.sql.\*;

import javax.swing.JOptionPane;

**//Code for “formWindowGainedFocus”:**

jTextField1.setText(""+(BasisClass.itemcount+1));

jTextField2.setText("Manufacturer"+(BasisClass.itemcount+1));

**//Code for ‘Add” button:**

if(jTextField3.getText().equals("")||jTextField4.getText().equals("")||jTextField5.getText().equals("")||jTextField6.getText().equals("")||jTextField7.getText().equals("")||jTextField8.getText().equals(""))

JOptionPane.showMessageDialog(null, "Enter all values before updating");

else{

try{

String manname=jTextField2.getText();

int manid=Integer.parseInt(jTextField1.getText());

long phone=Long.parseLong(jTextField3.getText());

String city=jTextField4.getText();

int supplies=Integer.parseInt(jTextField5.getText());

String address=jTextField7.getText();

String state=jTextField8.getText();

long mobile=Long.parseLong(jTextField6.getText());

Class.forName("java.sql.DriverManager" );

Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacy","root","team");

Statement stmt=con.createStatement();

String query="insert into manufacturer values("+manid+","+mobile+",'"+address+"',"+supplies+",'"+city+"','"+state+"','"+manname+"',"+phone+");";

stmt.executeUpdate(query);

JOptionPane.showMessageDialog(null,"Record Added");

}

catch(Exception e){

JOptionPane.showMessageDialog(null, e.getMessage());

}

new manuintro().setVisible(true);

dispose();}

**//Code for “Back” button:**

new manuintro().setVisible(true);

dispose();

**//Code for “Menu” button :**

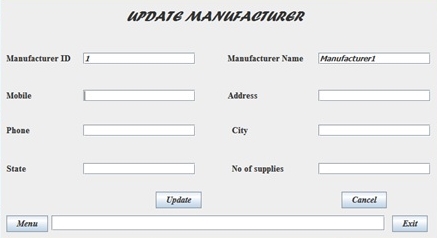
new menu\_page().setVisible(true);

dispose();

**//Code for “Exit” button:**

dispose();

**Edit Manufacturer:**



**//Imported Statements:**

import java.sql.\*;

import javax.swing.JOptionPane;

**//Code for “formWindowGainedFocus”:**

jTextField1.setText(""+(BasisClass.manu\_id+1));

jTextField2.setText("Manufacturer"+(BasisClass.manu\_id+1));

**//Code for “Update” button:**

if(jTextField3.getText().equals("")||jTextField4.getText().equals("")||jTextField5.getText().equals("")||jTextField6.getText().equals("")||jTextField7.getText().equals("")||jTextField8.getText().equals(""))

JOptionPane.showMessageDialog(null, "Enter all values before updating");

else{

try{

int manid=Integer.parseInt(jTextField1.getText());

long phone=Long.parseLong(jTextField3.getText());

String city=jTextField4.getText();

int supplies=Integer.parseInt(jTextField5.getText());

String address=jTextField7.getText();

String state=jTextField8.getText();

long mobile=Long.parseLong(jTextField6.getText());

Class.forName("java.sql.DriverManager" );

Connection con=(Connection)DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacy","root","team");

Statement stmt=con.createStatement();

String query="update manufacturer set Mobile\_No='"+mobile+"',Address='"+address+"',No\_of\_Supplies='"+supplies+"',City='"+city+"',State='"+state+"',Phone\_no='"+phone+"' where Manufacturer\_ID='"+manid+"';";

stmt.executeUpdate(query);

JOptionPane.showMessageDialog(null, "Record Updated");}

catch(Exception e){

JOptionPane.showMessageDialog(null, e.getMessage());}

new ManufacturerDetails().setVisible(true);

dispose();}

**//Code for “Cancel” button :**

new ManufacturerDetails().setVisible(true);

dispose();

**//Code for “Menu” button :**

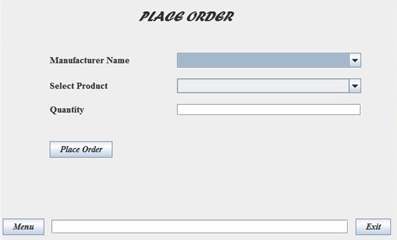
new menu\_page().setVisible(true);

dispose();

**//Code for “Exit” button:**

dispose();

**Place order:**



**//Imported Statements:**

import java.sql.\*;

import javax.swing.JOptionPane;

**//Code for “formWindowGainedFocus”:**

jComboBox1.removeAllItems();

try{

Class.forName("java.sql.DriverManager" );

Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacy","root","team");

Statement stmt=con.createStatement();

String query="select Manufacturer\_name from manufacturer;";

ResultSet rs=stmt.executeQuery(query);

while(rs.next()){

jComboBox1.addItem(rs.getString(1));

}}

catch(Exception e){

JOptionPane.showMessageDialog(null,e.getMessage());

}

jComboBox2.removeAllItems();

try{

Class.forName("java.sql.DriverManager" );

Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacy","root","team");

Statement stmt=con.createStatement();

String query="select Medicine from medicines;";

ResultSet rs=stmt.executeQuery(query);

while(rs.next()){

jComboBox2.addItem(rs.getString(1));

}}

catch(Exception e){

JOptionPane.showMessageDialog(null,e.getMessage());}

**//Code for “Place Order” button:**

if(jTextField1.getText().equals(""))

JOptionPane.showMessageDialog(null,"Enter Quantity");

else{

try{

int qnty=Integer.parseInt(jTextField1.getText());

String meds=(String)jComboBox2.getSelectedItem();

Class.forName("java.sql.DriverManager" );

Connection con=(Connection)DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacy","root","team");

Statement stmt=con.createStatement();

String query="update medicines set Quantity=Quantity+'"+qnty+"' where Medicine='"+meds+"'";

stmt.executeUpdate(query);

}

catch(Exception e){

JOptionPane.showMessageDialog(null,e.getMessage());}

try{

String manName=(String)jComboBox1.getSelectedItem();

int supplies=0;

Class.forName("java.sql.DriverManager" );

Connection con=(Connection)DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacy","root","team");

Statement stmt=con.createStatement();

String query="select \* from manufacturer where Manufacturer\_name='"+manName+"';";

ResultSet rs=stmt.executeQuery(query);

if(rs.next()){

supplies=rs.getInt("No\_of\_Supplies");

supplies+=1;

String sqlQuery="update manufacturer set No\_of\_Supplies='"+supplies+"' where Manufacturer\_name='"+manName+"'; ";

stmt.executeUpdate(sqlQuery);

JOptionPane.showMessageDialog(null,"Your Order Is Placed");

new menu\_page().setVisible(true);

dispose();}

else

JOptionPane.showMessageDialog(null,"No such Manufacturer.Try Again.");

}

catch(Exception e){

JOptionPane.showMessageDialog(null,e.getMessage());}

}

**//Code for “Menu” button :**

new menu\_page().setVisible(true);

dispose();

**//Code for “Exit” button:**

dispose();

**Menu-Customer:**



**//Code for “Customer Details” :**

new CustomerDetails().setVisible(true);

dispose();

**//Code for “Search Details” :**

new SearchCustomer().setVisible(true);

dispose();

**//Code for “New Customer” :**

new NewCustomer().setVisible(true);

dispose();

**Customer Details:**

****

**//Imported Statements:**

import java.sql.\*;

import javax.swing.JOptionPane;

**//Creating “Display()” method:**

private void Display()

{try{

jTextField1.setText(""+rs.getInt("CustomerID"));

jTextField2.setText(rs.getString("Name"));

jTextField3.setText(""+rs.getLong("Mobile\_no"));

jTextField4.setText(""+rs.getLong("No\_of\_purchases"));

jLabel5.setText("Record Position:"+rs.getRow()+"/"+rowcount);

}

catch(Exception e)

{JOptionPane.showMessageDialog(null,e.getMessage());

}

}

**//Code for “formWindowGainedFocus”:**

try{

Class.forName("java.sql.DriverManager" );

Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacy","root","team");

Statement stmt=con.createStatement();

String query="select \* from customer order by CustomerID;";

rs=stmt.executeQuery(query);

while(rs.next()){

rowcount=rs.getInt("CustomerID");}

rs.first();

Display();

}

catch(Exception e)

{JOptionPane.showMessageDialog(null, e.getMessage());

}

**//Code for “Next” button :**

try{

if(rs.isLast()==true)

{JOptionPane.showMessageDialog(null,"Already last record");

rs.last();}

else

{rs.next();

Display();

}}

catch(Exception e)

{JOptionPane.showMessageDialog(null,e.getMessage());

}

**//Code for “Previous” button :**

try{

if(rs.isFirst()==true)

{JOptionPane.showMessageDialog(null,"Already first record");}

else

{rs.previous();

Display();

}}

catch(Exception e)

{JOptionPane.showMessageDialog(null,e.getMessage());

}

**//Code for “Edit” button :**

BasisClass.customerid=Integer.parseInt(jTextField1.getText());

new EditCustomer().setVisible(true);

dispose();

**//Code for “Menu” button :**

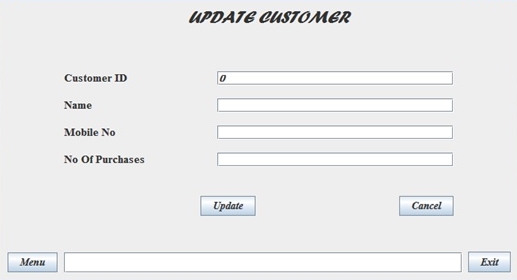
new menu\_page().setVisible(true);

dispose();

**//Code for “Exit” button:**

dispose();

**Edit Customer:**



**//Imported Statements:**

import java.sql.\*;

import javax.swing.JOptionPane;

**//Code for “formWindowGainedFocus”:**

jTextField1.setText(""+BasisClass.customerid);

**//Code for “Update Customer” button :**

if(jTextField1.getText().equals("")||jTextField2.getText().equals("")||jTextField3.getText().equals("")||jTextField4.getText().equals(""))

JOptionPane.showMessageDialog(null, "Enter all values before updating");

else{

try{

int id=Integer.parseInt(jTextField1.getText());

String name=jTextField2.getText();

long mobile=Long.parseLong(jTextField3.getText());

int purchases=Integer.parseInt(jTextField4.getText());

Class.forName("java.sql.DriverManager" );

Connection con=(Connection)DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacy","root","team");

Statement stmt=con.createStatement();

String query="update customer set Name='"+name+"',Mobile\_no='"+mobile+"',No\_of\_purchases='"+purchases+"' where CustomerID='"+id+"';";

stmt.executeUpdate(query);

JOptionPane.showMessageDialog(null, "Record Updated");}

catch(Exception e){

JOptionPane.showMessageDialog(null, e.getMessage());}

new CustomerDetails().setVisible(true);

dispose();}

**//Code for “Cancel” button:**

new CustomerDetails().setVisible(true);

dispose();

**//Code for “Menu” button :**

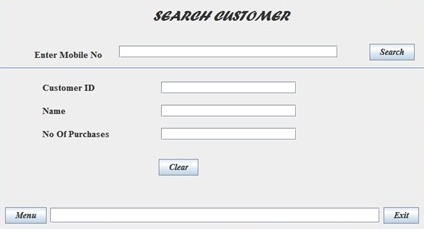
new menu\_page().setVisible(true);

dispose();

**//Code for “Exit” button:**

dispose();

**Search Customer:**



**//Imported Statements:**

import java.sql.\*;

import javax.swing.JOptionPane;

**//Code for “Search” button:**

try{

if(jTextField1.getText().equals("Enter Mobile Number")){

JOptionPane.showMessageDialog(null,"");

String mobile=jTextField1.getText();

Class.forName("java.sql.DriverManager" );

Connection con=(Connection)DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacy","root","team");

Statement stmt=con.createStatement();

String query="select \* from customer where Mobile\_no='"+mobile+"';";

ResultSet rs=stmt.executeQuery(query);

if(rs.next()){

int id=rs.getInt("CustomerID");

String name=rs.getString("Name");

int purchases=rs.getInt("No\_of\_purchases");

jTextField3.setText(""+id);

jTextField4.setText(""+name);

jTextField5.setText(""+purchases);

}}

else

{JOptionPane.showMessageDialog(null,"Wrong Mobile Entry. Try Again.");

jTextField1.setText("");

}}

catch(Exception e){

JOptionPane.showMessageDialog(null,e.getMessage());

}

**//Code for “Clear” button :**

jTextField1.setText("");

jTextField3.setText("");

jTextField4.setText("");

jTextField5.setText("");

**//Code for “Menu” button :**

new menu\_page().setVisible(true);

dispose();

**//Code for “Exit” button:**

dispose();

**New Customer:**



**//Imported Statements:**

import java.sql.\*;

import javax.swing.JOptionPane;

**//Code for “formWindowGainedFocus”:**

try{

Class.forName("java.sql.DriverManager" );

Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacy","root","team");

Statement stmt=con.createStatement();

String query="select \* from customer order by CustomerID;";

ResultSet rs=stmt.executeQuery(query);

while(rs.next())

{rowcount=rs.getInt("CustomerID");}

jTextField1.setText(""+(rowcount+1));

}

catch (Exception e){

JOptionPane.showMessageDialog(null, e.getMessage());

}

**//Code for “Add” button :**

if(jTextField1.getText().equals("")||jTextField2.getText().equals("")||jTextField3.getText().equals("")||jTextField4.getText().equals(""))

JOptionPane.showMessageDialog(null, "Enter all values before updating");

else{

try{

int id=Integer.parseInt(jTextField1.getText());

String name=jTextField2.getText();

long mobile=Long.parseLong(jTextField3.getText());

int purchases=Integer.parseInt(jTextField4.getText());

Class.forName("java.sql.DriverManager" );

Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacy","root","team");

Statement stmt=con.createStatement();

String sqlquery="insert into customer values('"+name+"','"+mobile+"','"+purchases+"','"+id+"');";

stmt.executeUpdate(sqlquery);

JOptionPane.showMessageDialog(null,"Record Added");

}

catch (Exception e){

JOptionPane.showMessageDialog(null, e.getMessage());

}

new menu\_page().setVisible(true);

dispose();}

**//Code for “Menu” button :**

new menu\_page().setVisible(true);

dispose();

**//Code for “Exit” button:**

dispose();

**Menu-Medicines:**



**//Code for “Medicines Available” :**

new MedicineIntro().setVisible(true);

dispose();

**//Code for “Add Medicnes” :**

new NewMedicine().setVisible(true);

dispose();

**Medicines Intro:**



**//Imported Statements:**

import java.sql.\*;

import javax.swing.JOptionPane;

**//Code for “formWindowGainedFocus”:**

jComboBox1.removeAllItems();

try{

Class.forName("java.sql.DriverManager" );

Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacy","root","team");

Statement stmt=con.createStatement();

String query="select Medicine from medicines;";

ResultSet rs=stmt.executeQuery(query);

while(rs.next()){

jComboBox1.addItem(rs.getString(1));

}}

catch(Exception e){

JOptionPane.showMessageDialog(null,e.getMessage());

}

BasisClass.itemcount=jComboBox1.getItemCount();

**//Code for “Search Details” :**

BasisClass.med\_code=jComboBox1.getSelectedIndex();

new MedicinesDetails().setVisible(true);

dispose();

**//Code for “Ad New Medicine”**

new NewMedicine().setVisible(true);

dispose();

**//Code for “Menu” button :**

new menu\_page().setVisible(true);

dispose();

**//Code for “Exit” button:**

dispose();

**Medicine Details:**



**//Imported Statements:**

import java.sql.\*;

import javax.swing.JOptionPane;

**//Code for “formWindowGainedFocus”:**

try{

int med\_code=BasisClass.med\_code+1;

Class.forName("java.sql.DriverManager" );

Connection con=(Connection)DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacy","root","team");

Statement stmt=con.createStatement();

String query="select \* from medicines where Med\_Code='"+med\_code+"';";

ResultSet rs=stmt.executeQuery(query);

while (rs.next()){

String meds=rs.getString("Medicine");

int qnty=rs.getInt("Quantity");

String man\_name=rs.getString("ManufacturerName");

String date=rs.getString("Expiry\_date");

double price=rs.getDouble("Price");

jTextField1.setText(""+med\_code);

jTextField2.setText(""+meds);

jTextField3.setText(""+qnty);

jTextField4.setText(""+price);

jTextField5.setText(""+date);

jTextField6.setText(""+man\_name);

}}

catch(Exception e){

JOptionPane.showMessageDialog(null, e.getMessage());

}

**//Code for ‘Add New Medicine” button:**

new NewMedicine().setVisible(true);

dispose();

**//Code for “Edit” button :**

new EditMedicines().setVisible(true);

dispose();

**//Code for “Delete Record” button :**

try{

int med\_code=Integer.parseInt(jTextField1.getText());

Class.forName("java.sql.DriverManager" );

Connection con=(Connection)DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacy","root","team");

Statement stmt=con.createStatement();

String query="delete from medicines where Med\_Code='"+med\_code+"';";

stmt.executeUpdate(query);

JOptionPane.showMessageDialog(null,"Record Delected");}

catch(Exception e){

JOptionPane.showMessageDialog(null, e.getMessage());}

new MedicineIntro().setVisible(true);

dispose();

**//Code for “Menu” button :**

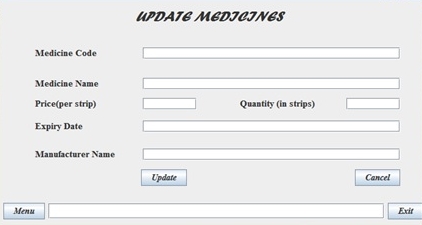
new menu\_page().setVisible(true);

dispose();

**//Code for “Exit” button:**

dispose();

**Edit medicines:**



**//Imported Statements:**

import java.sql.\*;

import javax.swing.JOptionPane;

**//Code for “formWindowGainedFocus”:**

jTextField1.setText(""+(BasisClass.med\_code+1));

try{

Class.forName("java.sql.DriverManager" );

Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacy","root","team");

Statement stmt=con.createStatement();

String query="select Medicine from medicines where Med\_Code='"+BasisClass.med\_code+"';";

ResultSet rs=stmt.executeQuery(query);

while(rs.next()){

jTextField2.setText(rs.getString(1));

}}

catch(Exception e){

JOptionPane.showMessageDialog(null, e.getMessage());}

**//Code for “Update” button :**

if(jTextField2.getText().equals("")||jTextField3.getText().equals("")||jTextField4.getText().equals("")||jTextField5.getText().equals("")||jTextField6.getText().equals(""))

JOptionPane.showMessageDialog(null, "Enter all values before updating");

else{

try{

int med\_code=Integer.parseInt(jTextField1.getText());

String meds=jTextField2.getText();

int qnty=Integer.parseInt(jTextField3.getText());

double price=Double.parseDouble(jTextField4.getText());

String date=jTextField5.getText();

String man\_name=jTextField6.getText();

Class.forName("java.sql.DriverManager" );

Connection con=(Connection)DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacy","root","team");

Statement stmt=con.createStatement();

String query="update medicine set Med\_Code='"+med\_code+"',Medicine='"+meds+"',Quantity='"+qnty+"',Price='"+price+"',Expiry\_date='"+date+"',ManufacturerName='"+man\_name+"' where Med\_Code='"+med\_code+"';";

stmt.executeUpdate(query);

JOptionPane.showMessageDialog(null, "Record Updated");}

catch(Exception e){

JOptionPane.showMessageDialog(null, e.getMessage());}

new MedicinesDetails().setVisible(true);

dispose();}

**//Code for “Cancel” buton:**

new MedicinesDetails().setVisible(true);

dispose();

**//Code for “Menu” button :**

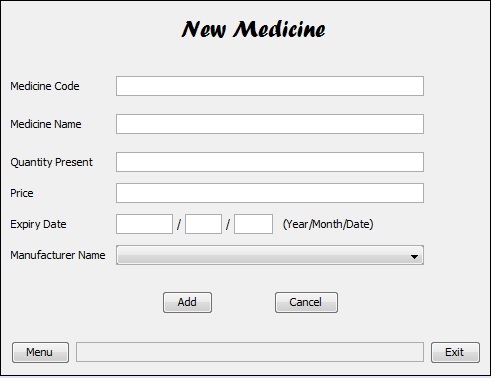
new menu\_page().setVisible(true);

dispose();

**//Code for “Exit” button:**

dispose();

**New Medicine:**



**//Imported Statements:**

import java.sql.\*;

import javax.swing.JOptionPane;

**//Code for “formWindowGainedFocus”:**

jComboBox1.removeAllItems();

try{

Class.forName("java.sql.DriverManager" );

Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacy","root","team");

Statement stmt=con.createStatement();

String query="select Manufacturer\_name from manufacturer;";

ResultSet rs=stmt.executeQuery(query);

while(rs.next()){

jComboBox1.addItem(rs.getString(1));

}

rs.close();

String sqlquery="select Med\_Code from medicines;";

rs=stmt.executeQuery(sqlquery);

while(rs.next())

{BasisClass.itemcount=rs.getInt(1);

}

jTextField1.setText(""+(BasisClass.itemcount+1));

}

catch(Exception e){

JOptionPane.showMessageDialog(null,e.getMessage());

}

**//Code for “Add” Button:**

if(jTextField2.getText().equals("")||jTextField3.getText().equals("")||jTextField4.getText().equals("")||jTextField5.getText().equals(""))

JOptionPane.showMessageDialog(null, "Enter all values before updating");

else{

try{

int med\_code=Integer.parseInt(jTextField1.getText());

String meds=jTextField2.getText();

int qnty=Integer.parseInt(jTextField3.getText());

double price=Double.parseDouble(jTextField4.getText());

String date=jTextField5.getText()+"/"+jTextField6.getText()+"/"+jTextField7.getText();

String man\_name=(String)jComboBox1.getSelectedItem();

Class.forName("java.sql.DriverManager" );

Connection con=(Connection)DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacy","root","team");

Statement stmt=con.createStatement();

String query="insert into medicines values('"+med\_code+"','"+meds+"','"+qnty+"','"+man\_name+"','"+price+"','"+date+"');";

stmt.executeUpdate(query);

JOptionPane.showMessageDialog(null,"Record Added");

BasisClass.med\_code=med\_code;

new MedicineIntro().setVisible(true);

dispose();}

catch(Exception e){

JOptionPane.showMessageDialog(null, e.getMessage());}

}

**//Code for “Cancel” button:**

new menu\_page().setVisible(true);

dispose();

**//Code for “Menu” button :**

new menu\_page().setVisible(true);

dispose();

**//Code for “Exit” button:**

dispose();

**Menu-Transaction:**



**//Code for “New Transaction” :**

new NewTransaction().setVisible(true);

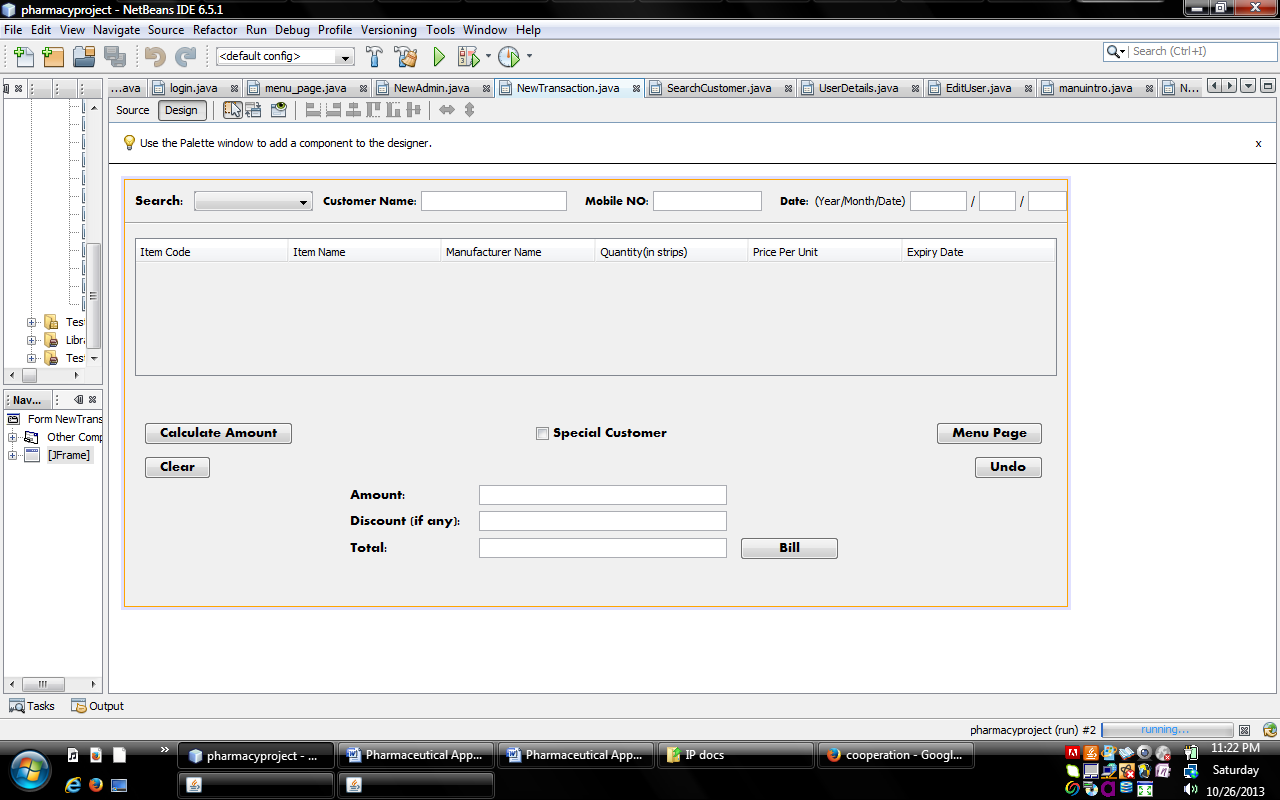
dispose();

**//Code for “Sales History” :**

new SalesHistory().setVisible(true);

dispose();

**New Transaction:**



**//Imported Statements:**

import java.sql.\*;

import javax.swing.JOptionPane;

import javax.swing.table.DefaultTableModel;

**//Creating Global Variables:**

int id;

double amt=0.0,disc=0.0;

**//Code for “formWindowGainedFocus”:**

jComboBox1.removeAllItems();

jComboBox1.addItem("-Select Medicines-");

try{

Class.forName("java.sql.DriverManager" );

Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacy","root","team");

Statement stmt=con.createStatement();

String query="select Medicine from medicines;";

ResultSet rs=stmt.executeQuery(query);

while(rs.next()){

jComboBox1.addItem(rs.getString(1));

}

String yearquery="select year(curdate()) as year;";

ResultSet rs1=stmt.executeQuery(yearquery);

if(rs1.next())

jTextField3.setText(rs1.getString(1));

String monthquery="select month(curdate()) as month;";

ResultSet rs2=stmt.executeQuery(monthquery);

if(rs2.next())

jTextField4.setText(rs2.getString(1));

String dayquery="select dayofmonth(curdate()) as day;";

ResultSet rs3=stmt.executeQuery(dayquery);

if(rs3.next())

jTextField5.setText(rs3.getString(1));

}

catch(Exception e){

JOptionPane.showMessageDialog(null,e.getMessage());

}

**//Code for Combo Box :**

DefaultTableModel model = (DefaultTableModel) jTable1.getModel();

try{

String meds=(String)jComboBox1.getSelectedItem();

Class.forName("java.sql.DriverManager" );

Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacy","root","team");

Statement stmt=con.createStatement();

String query="select \* from medicines where Medicine='"+meds+"';";

ResultSet rs=stmt.executeQuery(query);

while(rs.next()){

int med\_code=rs.getInt("Med\_Code");

int totqnty=rs.getInt("Quantity");

String man\_name=rs.getString("ManufacturerName");

int price=rs.getInt("Price");

String date=rs.getString("Expiry\_date");

String reply=JOptionPane.showInputDialog(null,"Total Quantity (in strips)is '"+totqnty+ "'","Enter Medicine Quantity",JOptionPane.PLAIN\_MESSAGE);

int qnty=Integer.parseInt(reply);

BasisClass.qnty=qnty;

model.addRow(new Object[] {med\_code,meds,man\_name,BasisClass.qnty,price,date});

amt=amt+(price\*qnty);

}}

catch(Exception e){

JOptionPane.showMessageDialog(null,e.getMessage());

}

**//Code for “Calculate” button :**

if(jTextField1.getText().equals("")||jTextField2.getText().equals("")||jTextField3.getText().equals(""))

JOptionPane.showMessageDialog(null, "Enter all details before proceeding");

else{

try{

String name=jTextField1.getText();

long mobile=Long.parseLong(jTextField2.getText());

Class.forName("java.sql.DriverManager" );

Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacy","root","team");

Statement stmt=con.createStatement();

String query="select \* from customer where Name='"+name+"' AND Mobile\_no='"+mobile+"';";

ResultSet rs=stmt.executeQuery(query);

if(rs.next()){

id=rs.getInt("CustomerID");

int purchases=rs.getInt("No\_of\_purchases");

if(purchases>5)

disc=10;

double total=amt-disc;

jTextField5.setText(""+amt);

jTextField6.setText(""+disc);

jTextField7.setText(""+total);}

else

JOptionPane.showMessageDialog(null,"No such Record. Try Again");

}

catch(Exception e){

JOptionPane.showMessageDialog(null,e.getMessage());

}}

**//Code for “Clear” button :**

DefaultTableModel model = (DefaultTableModel) jTable1.getModel();

int rows = model.getRowCount();

if (rows > 0) {

for (int i = 0; i < rows; i++) {

model.removeRow(0);

}

}

jTextField1.setText("");

jTextField2.setText("");

jTextField6.setText("");

jTextField7.setText("");

jTextField8.setText("");

amt=0;

**//Code for “Speacial Customer” checkbox:**

if(jCheckBox1.isSelected()){

jTextField1.setFocusable(false);

jTextField2.setFocusable(false);

}

else{

jTextField1.setFocusable(true);

jTextField2.setFocusable(true);

}

**//Code for “Undo” button :**

DefaultTableModel model = (DefaultTableModel) jTable1.getModel();

int rows = model.getRowCount();

if(rows>0)

model.removeRow(rows-1);

else

JOptionPane.showMessageDialog(null,"No More Values To Undo");

**//Code for “Bill” button :**

DefaultTableModel model = (DefaultTableModel) jTable1.getModel();

int rows = model.getRowCount();

if(jCheckBox1.isSelected()==false){

if(jTextField1.getText().equals("")||jTextField2.getText().equals("")||jTextField6.getText().equals("")||jTextField7.getText().equals("")||jTextField8.getText().equals("")||rows==0)

JOptionPane.showMessageDialog(null, "Enter All Details And Calculate Amount Before Proceeding.");

else{

try{

String date=jTextField3.getText()+"/"+jTextField4.getText()+"/"+jTextField5.getText();

String name=jTextField1.getText();

long mobile=Long.parseLong(jTextField2.getText());

Class.forName("java.sql.DriverManager" );

Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacy","root","team");

Statement stmt=con.createStatement();

String query="select CustomerID from customer where Name='"+name+"' AND Mobile\_no='"+mobile+"';";

ResultSet rs=stmt.executeQuery(query);

if(rs.next())

id=rs.getInt("CustomerID");

for(int i=0;i<rows;i++)

{

int qnty=Integer.parseInt(String.valueOf(jTable1.getModel().getValueAt(i,3)));

String meds=String.valueOf(jTable1.getModel().getValueAt(i,1));

String ex\_date=String.valueOf(jTable1.getModel().getValueAt(i,5));

String sqlquery="insert into purchase values('"+date+"','"+id+"','"+meds+"','"+qnty+"','"+ex\_date+"');";

stmt.executeUpdate(sqlquery);

String sqlquery2="update medicines set Quantity=Quantity-'"+qnty+"' where Medicine='"+meds+"';";

stmt.executeUpdate(sqlquery2);

}

String sqlquery3="update customer set No\_of\_purchases=No\_of\_purchases+1 where CustomerID='"+id+"';";

stmt.executeUpdate(sqlquery3);

JOptionPane.showMessageDialog(null,"Your Bill Is Produced.");

jButton2.doClick();

}

catch(Exception e){

JOptionPane.showMessageDialog(null,e.getMessage());

}}}

else{

if(jTextField6.getText().equals("")||jTextField7.getText().equals("")||jTextField8.getText().equals("")||rows==0)

JOptionPane.showMessageDialog(null, "Select Medicines And Calculate Amount Before Proceeding.");

else

{JOptionPane.showMessageDialog(null,"Your Bill Is Produced.");

jButton2.doClick();}}

**//Code for “Menu” button :**

new menu\_page().setVisible(true);

dispose();

**Sales History:**



**//Imported Statements:**

import java.sql.\*;

import javax.swing.JOptionPane;

import javax.swing.table.DefaultTableModel;

**//Code for “Search” button:**

DefaultTableModel model = (DefaultTableModel) jTable1.getModel();

if(jTextField1.getText().equals("")||jTextField2.getText().equals(""))

JOptionPane.showMessageDialog(null,"Enter All Details Before Proceeding");

else{

try{

int id=0;

String name=jTextField1.getText();

long mobile=Long.parseLong(jTextField2.getText());

Class.forName("java.sql.DriverManager" );

Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacy","root","team");

Statement stmt=con.createStatement();

String query="select CustomerID from customer where Name='"+name+"' and Mobile\_no='"+mobile+"';";

ResultSet rs=stmt.executeQuery(query);

if(rs.next()){

id=rs.getInt(1);

String sqlquery="select \* from purchase where CustomerID='"+id+"';";

ResultSet rs1=stmt.executeQuery(sqlquery);

while(rs1.next()){

String purchase\_date=rs1.getString("Date");

String meds=rs1.getString("Medicines");

int qnty=rs1.getInt("Quantity");

String expiry\_date=rs1.getString("ExpiryDate");

model.addRow(new Object[] {purchase\_date,meds,qnty,expiry\_date});

}}

else

JOptionPane.showMessageDialog(null,"No Such Record. Try Again.");}

catch(Exception e){

JOptionPane.showMessageDialog(null,e.getMessage());

}}

**//Code for “Clear” button :**

jTextField1.setText("");

jTextField2.setText("");

DefaultTableModel model = (DefaultTableModel) jTable1.getModel();

int rows = model.getRowCount();

if (rows > 0) {

for (int i = 0; i < rows; i++) {

model.removeRow(0);

}}

**//Code for “Menu” button :**

new menu\_page().setVisible(true);

dispose();

**//Code for “Exit” button:**

dispose();

**Acknowledgement**

I would like to thank my teammates for all the support they have given me. This project could not be completed without their valuable coordination.

We thank ***Mrs.Deepshika Banerjee Ma’am*** for having given us an opportunity to explore our skills in the developing a software project. We are grateful for the encouragement, assistance and cooperation ***Deepshika Banerjee*** ***Ma’am*** has given us.

We also thank *Yash Mishra*-our senior for his valuable guidance.

**Conclusion**

With the increased incentive to document and scrutinize the delivery of medicines, the use of the EHR’s should continue to increase.

First, the system must be beneficial to the user, the individual pharmacist who will be entering the data and using the results for customers. Thus, data entry must not be excessively time-consuming or otherwise difficult, while obtaining information out must be similarly fast and easy.

On the other hand, the system must not compromise customer confidentiality. Reasonable mechanisms must be implemented to insure patient information is not viewed by inappropriate viewers and those who breach security. However, the security must not be so restrictive as to impede use of the system by pharmacist.

**Future Scope**

It is likely that the pharmacist of the future will interact heavily with computers. Not only will various processes of health care delivery become increasingly automated, but larger amounts of non-customer information, such as the medical literature, will also be accessed electronically.

This future pharmacist will likely use a computer to enter findings and diagnoses, take advantage of links that connect these with decision support modules and the medical literature.