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School of Business

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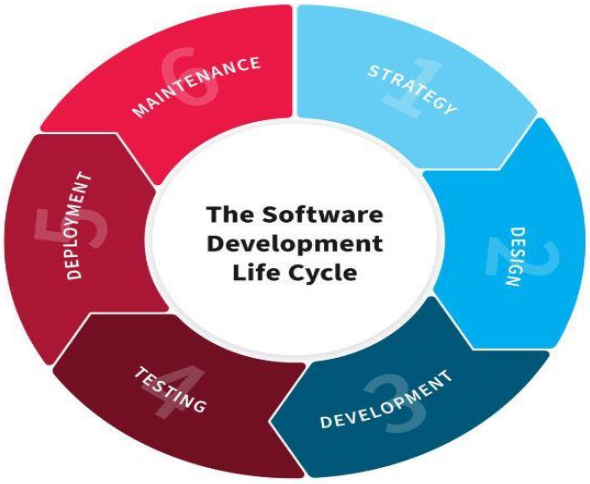
LEVEL 2

Group 3

Project Name: Pharmacy Management System

Below is a description of how our team project complete with all stages in SDLC phases(system development life cycle) as presented below:



Stage 1: STRATEGY

Pharmacy management system is java application developed using java programing designed to make work easier by giving the details and simplify the supply, acquisition and storage of medical drugs all in a neat, bug-free and user-friendly system. It became very difficult in bi medical stores to handle the details of all the medicine manually, so by using this pharmacy management system we can maintain the records of all the medicine. With this application ,the user(a certified licensed pharmacist) will be able to keep track of his/her drug inventory, access supplier details, insure that all drugs are still usable and sell drugs on a regular basis.

The pharmacy management system application has more benefit, easy to find medicine because we use easy to add medicine, medicine type, medicine deadline and also delete and modify option its help to both of customer and pharmacist.

Our application was designed to address the following specific problems

- Store medicine data
- Update, delete and edit medicine information
- Generate report on medicine
- Prepare bill for the medicine
- Security

The main goal of the system is to insure that pharmacist/user will be able to access data concerning drugs at any time and apply changes swiftly and effortlessly.

Main objective of the system is to provide a safe platform for pharmacist to perform their everyday work with simplicity and more effectively which would improve the overall process of service delivery in the healthcare system.

Main objective of this project is making the pharmacy organizations computerized by creating neat work through minimizing or eliminating

wasting of time as well as removing the resources such as papers for data saving.

Stage 2: DESIGN

Our pharmacy management system, design system will be user friendly. It shall be designed in such way that employees will be able to navigate easily through the information supplied on the system. The design of this system will be user friendly. The design of this system consist of design activities that produce development.

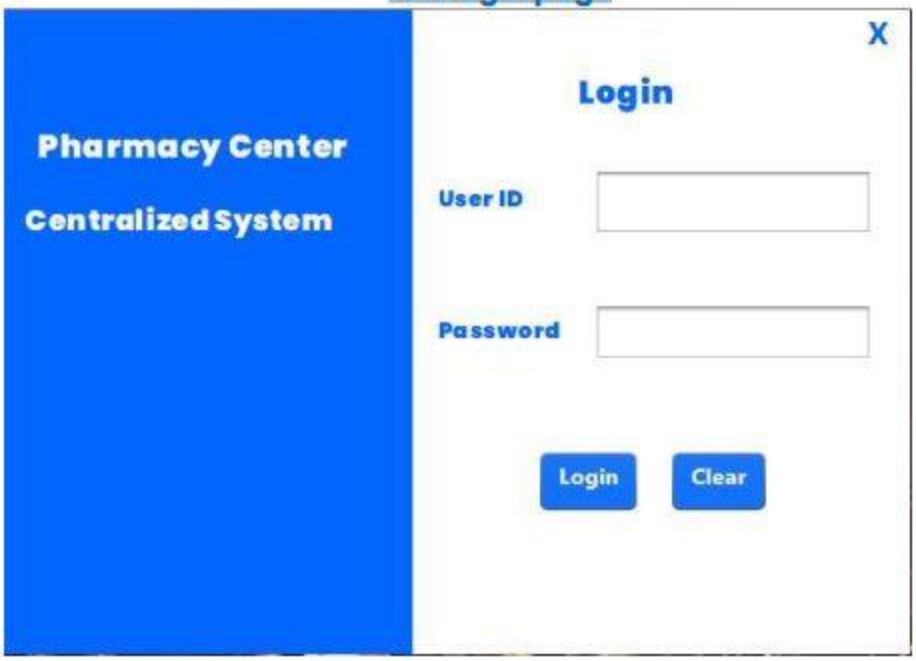
The loading dock splash page

This page illustrates the name of the application. It contains an image that represents the pharmacy logo as well as progress bar to display how far the system is loading.

Its key functionality is to provide a starting point for the user, admin to begin to login in the application.

Login page

The login page



Login page contains

- A Text area for user name
- A text area for user password
- An x sign that hold exit button to close the application
- A login button to confirm the user credential and verify if the user is true or not
- A clear button to reset of any content within both text areas(password &username)

The main function of the login page is to provide the user with space to identify themselves in order to access the system. In case the user is not find, the system message will be “WRONG PASSWORD OR USERNAME”.

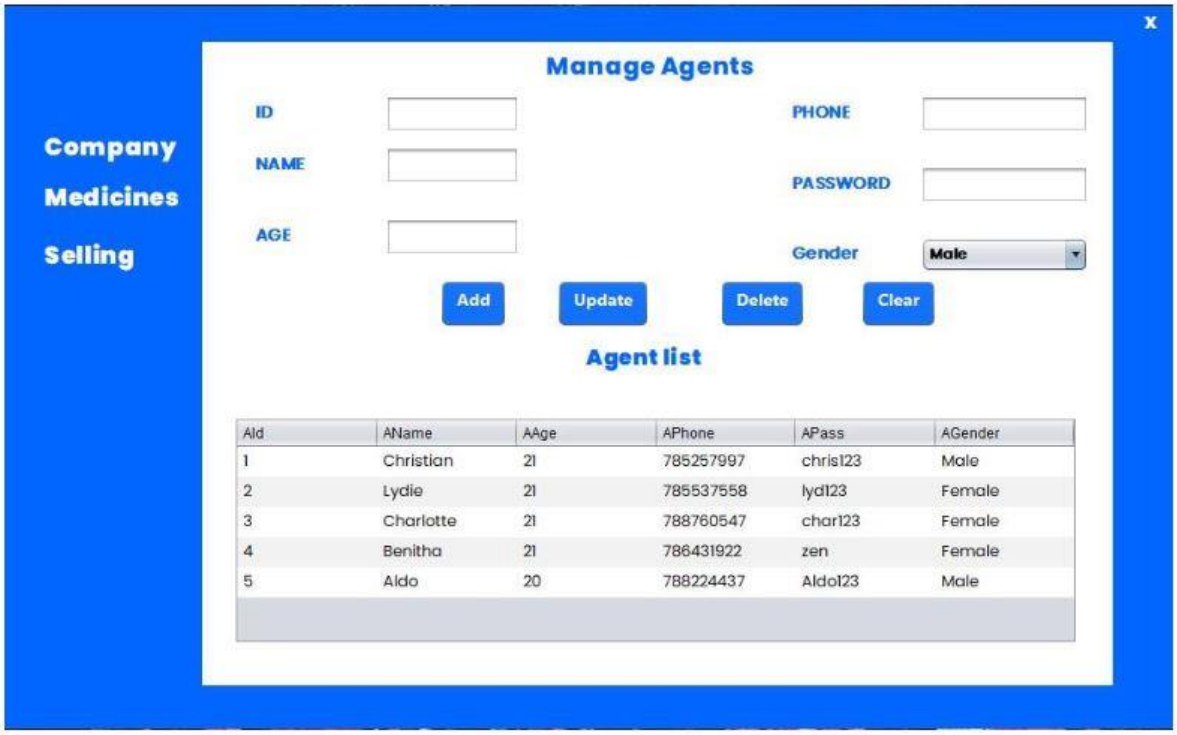
Medicine management page

The medicine management page allow user the possibility to operate on drugs and access to any information about it.

- A text field for medicine ID
- A text field for medicine name
- A text field for medicine price
- A text field for medicine quantity available in stock
- A calendar date chooser to input medicine fabrication date
- A calendar date chooser to input medicine expiration date
- A combo box to allow user to choose the company supplying medicine
- Add button to add new medicine
- Update button to modify or updating medicine information
- Delete button to remove any medicine from medicine table
- Clear button to empty text fields (ID, medname, medprice and medquantity).
- Medicine table to select any medicine from it
- A company label that links to the company management page
- Agents labels that links to the agent management page

- Selling label that links to the selling management page

The Agent management page



The agent management page allow user the possibility to operate on agents and access any information concerning them.

The following function were provided:

- A text field for agent id
- A text field for agent name
- A text field for agent age
- A text field for agent phone number(cell)
- A text field for agent password
- A combo box to allow user to choose agent sex
- Add button to add new agent
- Update button to update or modify agent information from table
- Clear button to empty the text fields
- Agent table to select any agent from table
- A company label that links to the company management page

- Medicine label that links to the medicine management page
- Selling label that links to the selling management page

The company management page

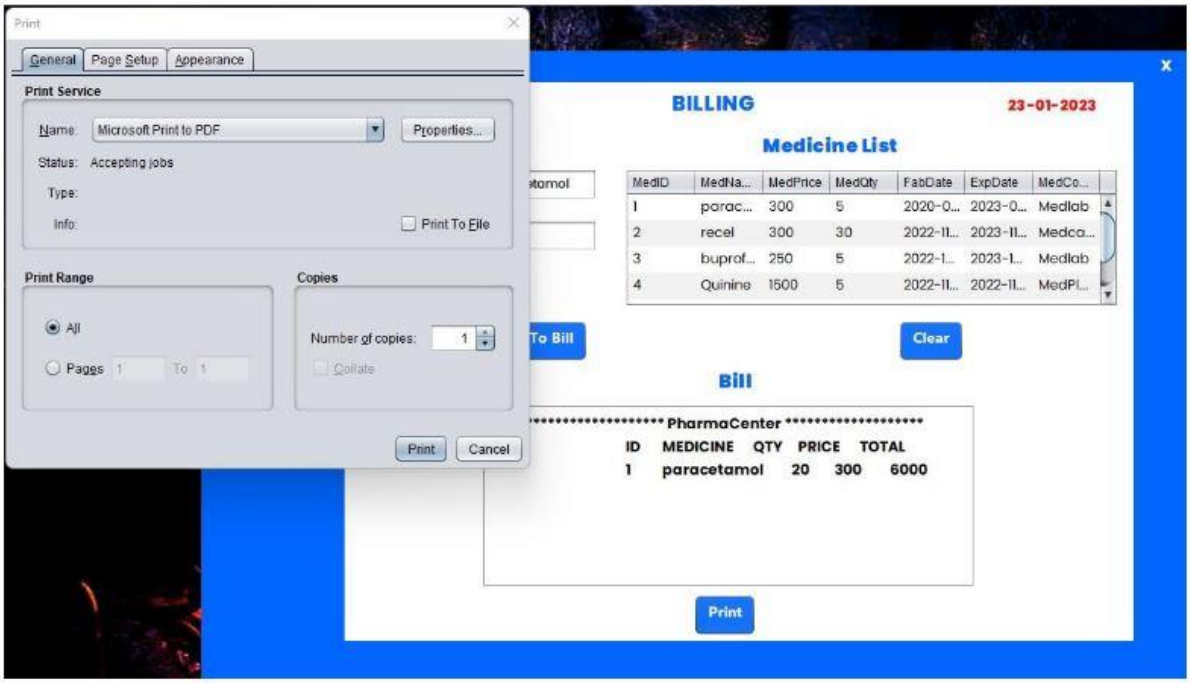
A company management page provides the user the possibility to operate on company supplying medicine to the pharmacy and access to any information about them

The following functionality are provided:

- A text field for company id
- A text field for company name
- A text field for company address
- A text field for company phone number
- A text field for company experience. this field holds how much time the company has been operating and manufacturing medical drugs and supplies
- Add button to add new company

- Update button to modify company information
- Delete button to remove any company from the company table
- Clear button to empty the text fields
- Company table to select any company from it
- Medicine label that links to the medicine management page
- Agent label that links to the agent management page
- Selling label that links to the selling management page

The selling management page



The selling management page allow operating on sells of medicine to the clients, creating bills and accessing any information about sells.

The following functionalities are provided:

- A text field for medicine name to be sold
- A text field for medicine quantity to be sold
- A text field for medicine to be sold that is added to the bill
- Add to bill button the medicine to the bill
- Clear button to empty the text fields
- Print button to print bill

- Company table to select any company from it
- Medicine label that links the medicine management page
- Company label that links to the company management page
- Agent label that links to the agent management page

Stage 3: DEVELOPMENT

We talked about it previously in first stage (strategy or system analysis) phase of the application development life cycle; our system is a java based web application. Both front-end and backend were implemented with help of apache NetBeans IDE version 15 application and database with xammp server

The flowing libraries were used:

- **Mysql-connector-j-8.0.31.jar** to connect to the database
- **PostgreSQL JDBC Driver-psorgresql-442.2.16.jar** to access the database in the application (apache NetBeans IDE 15).
- **Commons-dbutils-1.5-sources.jar** to link up the tables created in the design to the tables in MySQL database.
- **Rs2xml.jar** to manipulate the data input into the tables and allow selection.
- **Jcalendar-1.4.jar** to create a jcalendar field on the medicine management page that allows the user to select fabrication date as well as expiration date.
- **JDK 19** to allow the computer to read jar based files.

The storage database used in the development of this application is **MySQL** with the use of XAMMP control panel to start the server

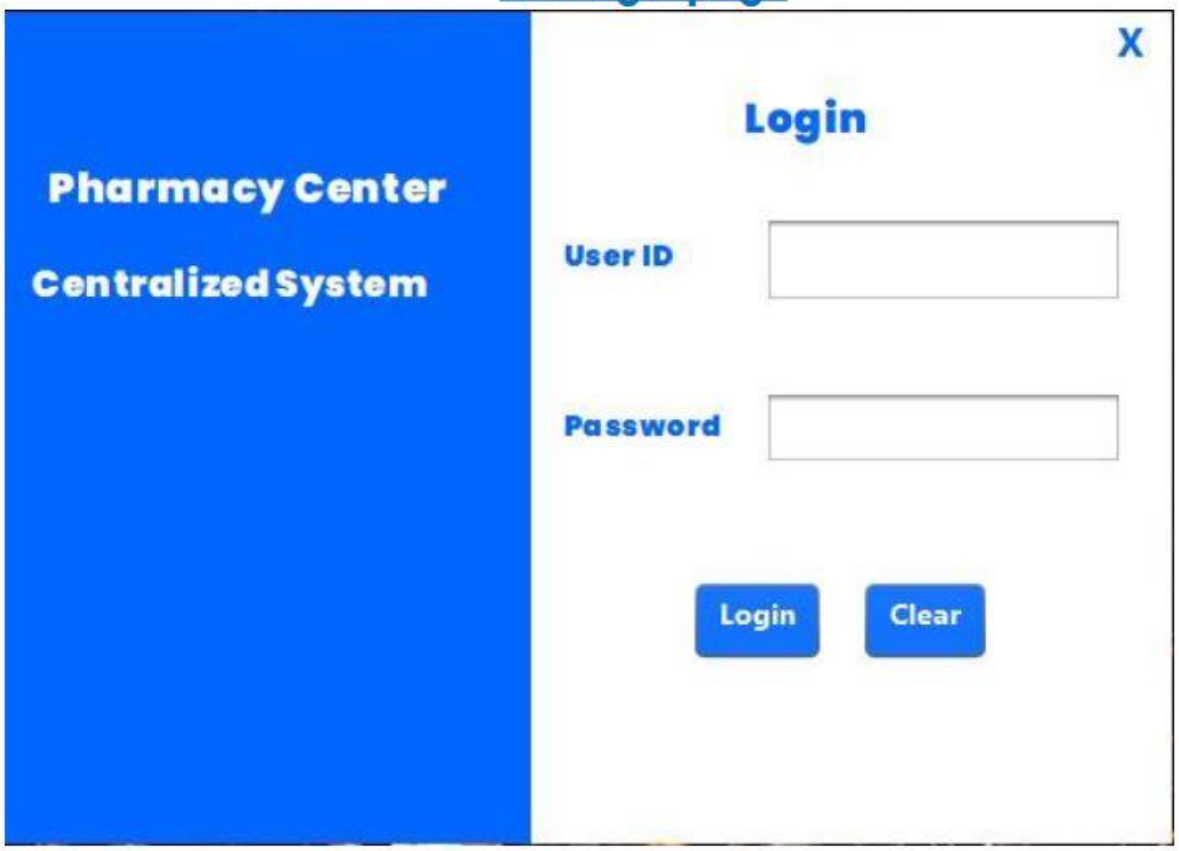
This are the flowing code used to create the application

codes

```
public class SPLASH extends javax.swing.JFrame {
public SPLASH() {
initComponents();
private void jLabel2MouseClicked(java.awt.event.MouseEvent evt) {
System.exit(0);
}
public static void main(String args[]) {
SPLASH Mysplash = new SPLASH();
Mysplash.setVisible(true);
try
{
for (int i = 0; i<= 100; i++)
{
Thread.sleep(10000);
Mysplash.Myprogress.setValue(i);
Mysplash.Percentage.setText(Integer.toString(i)+"%");
}
}
catch (Exception e)
{
}
Mysplash.dispose();
new Login().setVisible(true);
```

}
}

The login page



Codes

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.Statement;
import javax.swing.JOptionPane;
import java.sql.SQLException;
import java.sql.ResultSet;

public class Login extends javax.swing.JFrame {
```

```
public Login() {
initComponents();
}
Connection Con = null;
Statement St = null;
ResultSet Rs = null;
private void jButton2MouseClicked(java.awt.event.MouseEvent evt) {
String Query = "select * from agenttbl where AName = '" +Uid.getText()+"'
and APass =
'"+Pass.getText()+"'";
try
{
Con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacydb?zer
oDateTimeBeh
avior=CONVERT_TO_NULL" ,"root", "");
St = Con.createStatement();
Rs = St.executeQuery(Query);
if (Rs.next())
{
new Medicine().setVisible(true);
this.dispose();
}
else
{
JOptionPane.showMessageDialog(this, "WRONG PASSWORD");
}
}
catch(SQLException e)
{
e.printStackTrace();
}
}
private void jLabel7MouseClicked(java.awt.event.MouseEvent evt) {
System.exit(0);
}
private void ClearBtnMouseClicked(java.awt.event.MouseEvent evt) {
```

```
Uid.setText("");
Pass.setText("");
}
/**
* @param args the command line arguments
*/
public static void main(String args[]) {
java.awt.EventQueue.invokeLater(new Runnable() {
public void run() {
new Login().setVisible(true);
}
});
}
}
```

The medicine management page

The medicine management page codes

```
import java.sql.Statement;
import java.sql.Connection;
import java.sql.SQLException;
import java.sql.ResultSet;
import java.sql.PreparedStatement;
import java.sql.DriverManager;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
import net.proteanit.sql.DbUtils;
public class Medicine extends javax.swing.JFrame {
public Medicine() {
initComponents();
SelectMed();
GetCompany();
}
Connection Con = null;
Statement St = null;
ResultSet Rs = null;
java.util.Date FDate,EDate;
java.sql.Date MyFabDate, MyExpDate;
public void SelectMed()
{
try {
Con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacydb?zer
oDateTimeBeh
avior=CONVERT_TO_NULL" ,"root", "");
St = Con.createStatement();
Rs = St.executeQuery("Select * from medicinetbl");
MedicineTable.setModel(DbUtils.resultSetToTableModel(Rs));
}
catch(SQLException e)
{
e.printStackTrace();
```

```
}
}
public void GetCompany()
{
try
{
Con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacydb?zer
oDateTimeBeh
avior=CONVERT_TO_NULL" ,"root", "");
St = Con.createStatement();
String query = "Select * from companytbl";
Rs = St.executeQuery(query);
while(Rs.next())
{
String MyComp = Rs.getString("CompName");
CompCb.addItem(MyComp);
}
}
catch(SQLException e)
{
e.printStackTrace();
}
}
private void AddBtn1MouseClicked(java.awt.event.MouseEvent evt) {
FDate = FabDate.getDate();
MyFabDate = new java.sql.Date(FDate.getTime());
EDate = ExpDate.getDate();
MyExpDate = new java.sql.Date(EDate.getTime());
try {
Con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacydb?zer
oDateTimeBeh
avior=CONVERT_TO_NULL" ,"root", "");
PreparedStatement add = Con.prepareStatement("insert into medicinetbl
values
(?,?,?,?,?,?,?)");
```

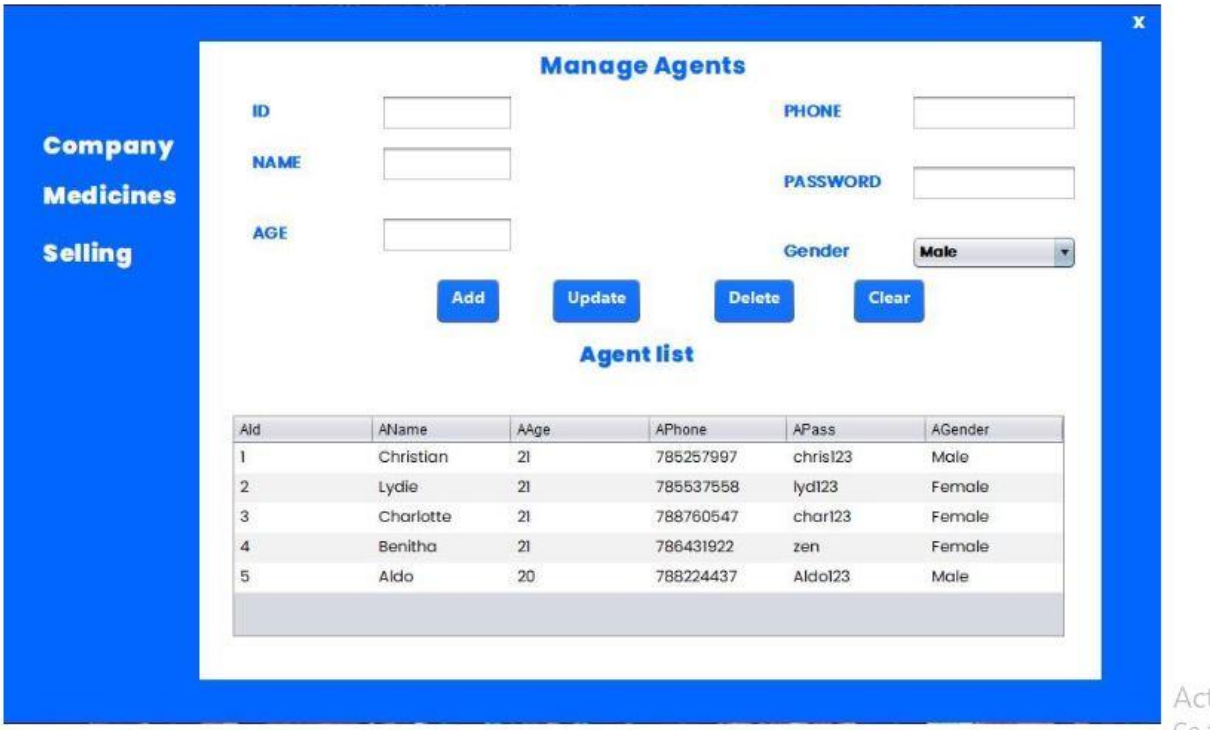
```
add.setInt(1, Integer.valueOf(MedId.getText()));
add.setString(2,MedName.getText());
add.setInt(3,Integer.valueOf(MedPrice.getText()));
add.setInt(4,Integer.valueOf(MedQty.getText()));
add.setDate(5, MyFabDate);
add.setDate(6, MyExpDate);
add.setString(7, CompCb.getSelectedItem().toString());
int row = add. executeUpdate();
JOptionPane.showMessageDialog(this, "Medicine Added Successfully");
Con.close();
SelectMed();
}
catch(SQLException e)
{
e.printStackTrace();
}
}
private void DeleteBtnMouseClicked(java.awt.event.MouseEvent evt) {
if (MedId.getText().isEmpty())
{
JOptionPane.showMessageDialog(this, "Enter Medicine to be Deleted");
}
else
{
try
{
Con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacydb?zer
oDateTimeBeh
avior=CONVERT_TO_NULL" ,"root", "");
String Id = MedId.getText();
String Query = "Delete from medicinetbl where MedId="+Id;
Statement Add = Con.createStatement();
Add.executeUpdate(Query);
SelectMed();
JOptionPane.showMessageDialog(this, "Medicine Deleted successfully");
}
```

```
catch(SQLException e)
{
e.printStackTrace();
}
}
}
private void MedicineTableMouseClicked(java.awt.event.MouseEvent evt) {
DefaultTableModel model =
(DefaultTableModel)MedicineTable.getModel();
int Myindex = MedicineTable.getSelectedRow();
MedId.setText(model.getValueAt(Myindex, 0).toString());
MedName.setText(model.getValueAt(Myindex, 1).toString());
MedPrice.setText(model.getValueAt(Myindex, 2).toString());
MedQty.setText(model.getValueAt(Myindex, 3).toString());
}
private void UpdateBtnMouseClicked(java.awt.event.MouseEvent evt) {
if(MedId .getText().isEmpty() || MedName.getText().isEmpty() ||
MedPrice.getText().isEmpty() || MedQty.getText().isEmpty())
{
JOptionPane.showMessageDialog(this, "Missing Innformation");
}
else
{
try
{
FDate = FabDate.getDate();
MyFabDate = new java.sql.Date(FDate.getTime());
EDate = ExpDate.getDate();
MyExpDate = new java.sql.Date(EDate.getTime());
Con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacydb?zer
oDateTimeBeh
avior=CONVERT_TO_NULL" ,"root", "");
String Id = MedId.getText();
String UpdateQuery = "Update medicinetbl set MedName =
'"+MedName.getText()+"',MedPrice = '"+ MedPrice.getText()+"',MedQty =
'"+MedQty.getText()+"',FabDate = '"+MyFabDate+"',ExpDate =
```

```
'"+MyExpDate+"',MedComp
= "'+ CompCb.getSelectedItem().toString()+"' where MedID ="+Id;
Statement Add = Con.createStatement();
Add.executeUpdate(UpdateQuery);
JOptionPane.showMessageDialog(this, "Medicine Update successfully");
}
catch (SQLException e)
{
e.printStackTrace();
}
SelectMed();
}
}
private void ClearBtnMouseClicked(java.awt.event.MouseEvent evt) {
MedId.setText("");
MedName.setText("");
MedPrice.setText("");
MedQty.setText("");
}
private void jLabel2MouseClicked(java.awt.event.MouseEvent evt) {
new Company().setVisible(true);
this.dispose();
}
private void jLabel4MouseClicked(java.awt.event.MouseEvent evt) {
new Agents().setVisible(true);
this.dispose();
}
private void jLabel1MouseClicked(java.awt.event.MouseEvent evt) {
new Selling ().setVisible(true);
this.dispose();
}
private void jLabel13MouseClicked(java.awt.event.MouseEvent evt) {
System.exit(0);
}
/**
* @param args the command line arguments
*/
```

```
public static void main(String args[]) {
java.awt.EventQueue.invokeLater(new Runnable() {
public void run() {
new Medicine().setVisible(true);
}
});
}
```

The Agents management page.



Agent management pages CODES

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;
import java.sql.Statement;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
```

```
import net.proteanit.sql.DbUtils;

public class Agents extends javax.swing.JFrame {
/**
* Creates new form Agents
*/
public Agents() {
initComponents();
SelectAgent();
}
Connection Con = null;
Statement St = null;
java.sql.ResultSet Rs = null;
public void SelectAgent()
{
try {
Con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacydb?zer
oDateTimeBeh
avior=CONVERT_TO_NULL" ,"root", "");
St = Con.createStatement();
Rs = St.executeQuery("Select * from agenttbl");
AgentTable.setModel(DbUtils.resultSetToTableModel(Rs));
}
catch(SQLException e)
{
e.printStackTrace();
}
}
private void AddBtnMouseClicked(java.awt.event.MouseEvent evt) {
try {
Con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacydb?zer
oDateTimeBeh
avior=CONVERT_TO_NULL" ,"root", "");
PreparedStatement add = Con.prepareStatement("insert into agenttbl values
(?,?,?,?,?,?)");
```

```
add.setInt(1, Integer.valueOf(AId.getText()));
add.setString(2,AName.getText());
add.setInt(3,Integer.valueOf(Aage.getText()));
add.setString(4,Aphone.getText());
add.setString(5,Apass.getText());
add.setString(6, GenderCb.getSelectedItem().toString());
int row = add. executeUpdate();
JOptionPane.showMessageDialog(this, "Agent Added Successfully");
Con.close();
SelectAgent();
}
catch(SQLException e)
{
e.printStackTrace();
}
}
private void ClearBtnMouseClicked(java.awt.event.MouseEvent evt) {
AId.setText("");
AName.setText("");
Aage.setText("");
Aphone.setText("");
Apass.setText("");
}
private void DeleteBtnMouseClicked(java.awt.event.MouseEvent evt) {
if (AId.getText().isEmpty())
{
JOptionPane.showMessageDialog(this, "Enter Agent to be Deleted");
}
else
{
try
{
Con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacydb?zer
oDateTimeBeh
avior=CONVERT_TO_NULL" ,"root", "");
String Id = AId.getText();
```

```
String Query = "Delete from agenttbl where AId="+Id;
Statement Add = Con.createStatement();
Add.executeUpdate(Query);
SelectAgent();
JOptionPane.showMessageDialog(this, "Agent Deleted successfully");
}
catch(SQLException e)
{
e.printStackTrace();
}
}
}
private void AgentTableMouseClicked(java.awt.event.MouseEvent evt) {
DefaultTableModel model = (DefaultTableModel)AgentTable.getModel();
int Myindex = AgentTable.getSelectedRow();
AId.setText(model.getValueAt(Myindex, 0).toString());
AName.setText(model.getValueAt(Myindex, 1).toString());
Aage.setText(model.getValueAt(Myindex, 2).toString());
Aphone.setText(model.getValueAt(Myindex, 3).toString());
Apass.setText(model.getValueAt(Myindex, 4).toString());
}
private void UpdateBtnMouseClicked(java.awt.event.MouseEvent evt) {
if(AId .getText().isEmpty() || AName.getText().isEmpty() ||
Aage.getText().isEmpty()
|| Aphone.getText().isEmpty() || Apass.getText().isEmpty())
{
JOptionPane.showMessageDialog(this, "Missing Innformation");
}
else
{
try
{
Con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacydb?zer
oDateTimeBeh
avior=CONVERT_TO_NULL" ,"root", "");
String Id = AId.getText();
```

```
String UpdateQuery = "Update agenttbl set AName =
'"+AName.getText()+"',AAge= '"+
Aage.getText()+"',APhone = '"+Aphone.getText()+"',APass=
'"+Apass.getText()+"',AGender
= '"+ GenderCb.getSelectedItem().toString()+"' where AId ="+Id;
Statement Add = Con.createStatement();
Add.executeUpdate(UpdateQuery);
JOptionPane.showMessageDialog(this, "Agent Update successfully");
}
catch (SQLException e)
{
e.printStackTrace();
}
SelectAgent();
}
}
private void jLabel2MouseClicked(java.awt.event.MouseEvent evt) {
new Company().setVisible(true);
this.dispose();
}
private void jLabel4MouseClicked(java.awt.event.MouseEvent evt) {
new Medicine().setVisible(true);
this.dispose();
}
private void GenderCbActionPerformed(java.awt.event.ActionEvent evt) {
// TODO add your handling code here:
}
private void UpdateBtnActionPerformed(java.awt.event.ActionEvent evt) {
// TODO add your handling code here:
}
private void ClearBtnActionPerformed(java.awt.event.ActionEvent evt) {
// TODO add your handling code here:
}
private void AIdActionPerformed(java.awt.event.ActionEvent evt) {
// TODO add your handling code here:
}
private void jLabel14MouseClicked(java.awt.event.MouseEvent evt) {
```

```
new Selling ().setVisible(true);
this.dispose();
}
private void jLabel1MouseClicked(java.awt.event.MouseEvent evt) {
System.exit(0);
}
/**
* @param args the command line arguments
*/
public static void main(String args[]) {
java.awt.EventQueue.invokeLater(new Runnable() {
public void run() {
new Agents().setVisible(true);
}
});
}
}
```

Company management CODES

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;
import java.sql.Statement;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
import net.proteanit.sql.DbUtils;

public class Company extends javax.swing.JFrame {
/**
* Creates new form Company
*/
public Company() {
initComponents();
SelectCompany();
}
Connection Con = null;
Statement St = null;
java.sql.ResultSet Rs = null;
public void SelectCompany()
{
try {
Con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacydb?zer
oDateTimeBeh
avior=CONVERT_TO_NULL" ,"root", "");
St = Con.createStatement();
Rs = St.executeQuery("Select * from companytbl");
CompanyTable.setModel(DbUtils.resultSetToTableModel(Rs));
}
catch(SQLException e)
{
e.printStackTrace();
}
}
```

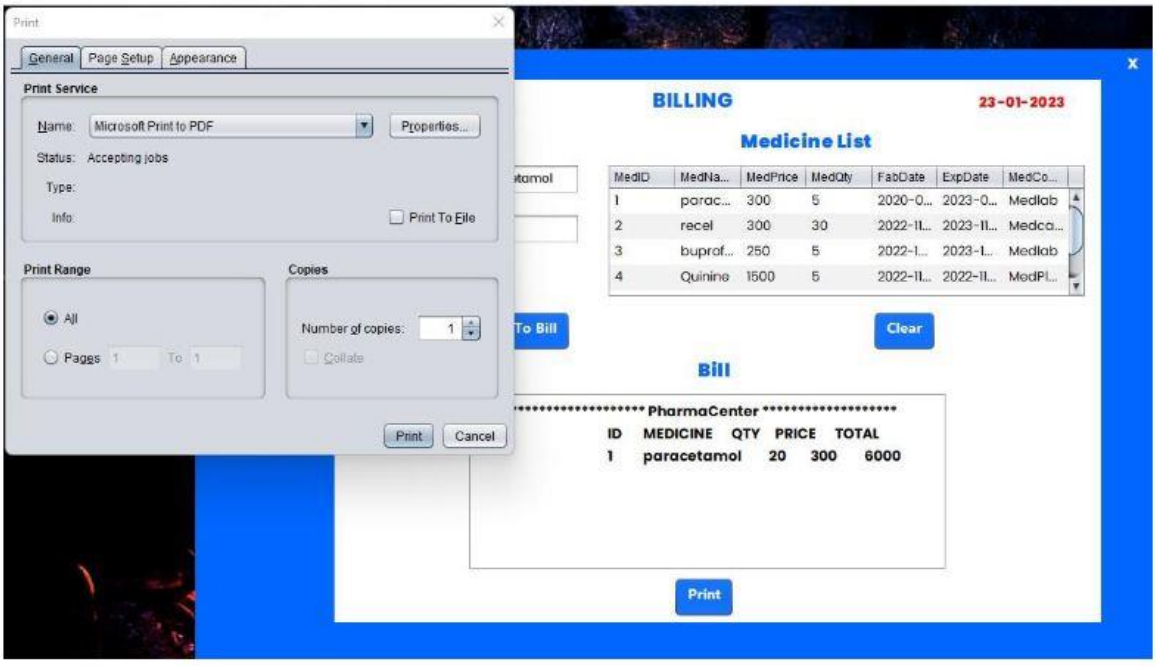
```
private void AddBtnMouseClicked(java.awt.event.MouseEvent evt) {
try {
Con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacydb?zer
oDateTimeBeh
avior=CONVERT_TO_NULL" ,"root", "");
PreparedStatement add = Con.prepareStatement("insert into companytbl
values
(?,?,?,?,?)");
add.setInt(1, Integer.valueOf(CompId.getText()));
add.setString(2,Compname.getText());
add.setString(3,Compad.getText());
add.setInt(4, Integer.valueOf(Compexp.getText()));
add.setString(5,Compphone.getText());
int row = add. executeUpdate();
JOptionPane.showMessageDialog(this, "Company Added Successfully");
Con.close();
SelectCompany();
}
catch(SQLException e)
{
e.printStackTrace();
}
}
private void DeleteBtnMouseClicked(java.awt.event.MouseEvent evt) {
if (CompId.getText().isEmpty())
{
JOptionPane.showMessageDialog(this, "Enter company to be Deleted");
}
else
{
try
{
Con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacydb?zer
oDateTimeBeh
avior=CONVERT_TO_NULL" ,"root", "");
```

```
String Id = CompId.getText();
String Query = "Delete from companytbl where CompID="+Id;
Statement Add = Con.createStatement();
Add.executeUpdate(Query);
SelectCompany();
JOptionPane.showMessageDialog(this, "Company Deleted successfully");
}
catch(SQLException e)
{
e.printStackTrace();
}
}
}
private void UpdateBtnMouseClicked(java.awt.event.MouseEvent evt) {
if(CompId .getText().isEmpty() || Compname.getText().isEmpty() ||
Compad.getText().isEmpty() || Compexp.getText().isEmpty() ||
Compphone.getText().isEmpty())
{
JOptionPane.showMessageDialog(this, "Missing Innformation");
}
else
{
try
{
Con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacydb?zer
oDateTimeBeh
avior=CONVERT_TO_NULL" ,"root", "");
String Id = CompId.getText();
String UpdateQuery = "Update companytbl set CompName =
'"+Compname.getText()+"',CompAd = '"+ Compad.getText()+"',CompExp =
'"+Compexp.getText()+"',CompPhone= '"+Compphone.getText()+"' where
CompID ="+Id;
Statement Add = Con.createStatement();
Add.executeUpdate(UpdateQuery);
JOptionPane.showMessageDialog(this, "Company Update successfully");
}
```

```
catch (SQLException e)
{
e.printStackTrace();
}
SelectCompany();
}
}
private void ClearBtnMouseClicked(java.awt.event.MouseEvent evt) {
CompId.setText("");
Compname.setText("");
Compad.setText("");
Compexp.setText("");
Compphone.setText("");
}
private void jLabel2MouseClicked(java.awt.event.MouseEvent evt) {
new Medicine().setVisible(true);
this.dispose();
}
private void jLabel4MouseClicked(java.awt.event.MouseEvent evt) {
new Agents().setVisible(true);
this.dispose();
}
private void CompanyTableMouseClicked(java.awt.event.MouseEvent evt) {
DefaultTableModel model =
(DefaultTableModel)CompanyTable.getModel();
int Myindex = CompanyTable.getSelectedRow();
CompId.setText(model.getValueAt(Myindex, 0).toString());
Compname.setText(model.getValueAt(Myindex, 1).toString());
Compad.setText(model.getValueAt(Myindex, 2).toString());
Compexp.setText(model.getValueAt(Myindex, 3).toString());
Compphone.setText(model.getValueAt(Myindex, 4).toString());
}
private void CompnameActionPerformed(java.awt.event.ActionEvent evt) {
// TODO add your handling code here:
}
private void jLabel1MouseClicked(java.awt.event.MouseEvent evt) {
```

```
new Selling ().setVisible(true);
this.dispose();
}
private void jLabel13MouseClicked(java.awt.event.MouseEvent evt) {
System.exit(0);
}
/**
* @param args the command line arguments
*/
public static void main(String args[]) {
java.awt.EventQueue.invokeLater(new Runnable() {
public void run() {
new Company().setVisible(true);
}
});
}
}
```

The selling management page.



Selling management page codes

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.sql.Statement;
import java.text.SimpleDateFormat;
import java.util.Date;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
import net.proteanit.sql.DbUtils;

public class Selling extends javax.swing.JFrame {
/**
* Creates new form Selling
*/
public Selling() {
initComponents();

SelectMed();
ShowDate();
}
public void ShowDate()
{
Date d = new Date();
SimpleDateFormat s = new SimpleDateFormat("dd-MM-yyyy");
DateLbl.setText(s.format(d));
}
Connection Con = null;
Statement St = null;
java.sql.ResultSet Rs = null;
public void SelectMed()
{
try {
Con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacydb?zer
```

```
oDateTimeBeh
avior=CONVERT_TO_NULL" ,"root", "");
St = Con.createStatement();
Rs = St.executeQuery("Select * from medicinetbl");
MedicineTable.setModel(DbUtils.resultSetToTableModel(Rs));
}
catch(SQLException e)
{
e.printStackTrace();
}
}
private void PrintBtnMouseClicked(java.awt.event.MouseEvent evt) {
/* if(AId .getText().isEmpty() || AName.getText().isEmpty() ||
Aage.getText().isEmpty() ||
Aphone.getText().isEmpty() || Apass.getText().isEmpty())
{
JOptionPane.showMessageDialog(this, "Missing Innformation");
}
else
{
try
{
Con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacydb?zer
oDateTimeBeh
avior=CONVERT_TO_NULL" ,"root", "");
String Id = AId.getText();
String UpdateQuery = "Update agenttbl set AName =
'"+AName.getText()+"',AAge=
'"+ Aage.getText()+"',APhone = '"+Aphone.getText()+"',APass=
'"+Apass.getText()+"',AGender = '"+
GenderCb.getSelectedItem().toString()+"' where AId
="+Id;
Statement Add = Con.createStatement();
Add.executeUpdate(UpdateQuery);
JOptionPane.showMessageDialog(this, "Agent Update successfully");
}
```

```
catch (SQLException e)
{
e.printStackTrace();
}
SelectSells();
}*/
try
{
BillTxt.print();
}
catch(Exception e)
{
e.printStackTrace();
}
}
private void PrintBtnActionPerformed(java.awt.event.ActionEvent evt) {
// TODO add your handling code here:
}
private void ClearBtnMouseClicked(java.awt.event.MouseEvent evt) {
MedText.setText("");
Qty.setText("");
}
private void ClearBtnActionPerformed(java.awt.event.ActionEvent evt) {
// TODO add your handling code here:
}
public void Update ()
{
int newQty;
newQty = Q1dQty - Integer.valueOf(Qty.getText());
try
{
Con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/pharmacydb?zer
oDateTimeBeh
avior=CONVERT_TO_NULL" ,"root", "");
String UpdateQuery = "Update medicinetbl set MedQty = "+ newQty +"
where MedID
```

```
="+ Medid;
Statement Add = Con.createStatement();
Add.executeUpdate(UpdateQuery);
JOptionPane.showMessageDialog(this, "Medicine Update successfully");
}
catch (SQLException e)
{
e.printStackTrace();
}
SelectMed();
}
int i = 0, price, Medid , Q1dQty;
private void AddBtnMouseClicked(java.awt.event.MouseEvent evt) {
if (MedText.getText().isEmpty() || Qty.getText().isEmpty())
{
JOptionPane.showMessageDialog(this, "Missing Information");
}
else {
i++;
Update();
if(i == 1)
{
BillTxt.setText(BillTxt.getText() +
"\n\t ID MEDICINE QTY PRICE TOTAL\n \t"
+ " "+
i +" " +
MedText.getText() + " " +
Qty.getText() + " " + price + " " + Integer.valueOf(Qty.getText())*price +
"\n");
}
else
{
BillTxt.setText(BillTxt.getText() +"\t "+ i + " " + MedText.getText() +" "
+Qty.getText() + " " + price + " " +
Integer.valueOf(Qty.getText())*price+"\n");
}
}
```

```
}
private void jLabel2MouseClicked(java.awt.event.MouseEvent evt) {
new Company().setVisible(true);
this.dispose();
}
private void jLabel4MouseClicked(java.awt.event.MouseEvent evt) {
new Medicine().setVisible(true);
this.dispose();
}
private void MedTextActionPerformed(java.awt.event.ActionEvent evt) {
// TODO add your handling code here:
}
private void QtyActionPerformed(java.awt.event.ActionEvent evt) {
// TODO add your handling code here:
}
private void MedicineTableMouseClicked(java.awt.event.MouseEvent evt) {
DefaultTableModel model =
(DefaultTableModel)MedicineTable.getModel();
int Myindex = MedicineTable.getSelectedRow();
// MedId.setText(model.getValueAt(Myindex, 0).toString());
MedText.setText(model.getValueAt(Myindex, 1).toString());
Medid = Integer.valueOf(model.getValueAt(Myindex, 0).toString());
price = Integer.valueOf(model.getValueAt(Myindex, 2).toString());
Q1dQty = Integer.valueOf(model.getValueAt(Myindex, 3).toString());
}
private void jLabel1MouseClicked(java.awt.event.MouseEvent evt) {
System.exit(0);
}
private void jLabel14MouseClicked(java.awt.event.MouseEvent evt) {
new Agents().setVisible(true);
this.dispose();
}
/**
* @param args the command line arguments
*/
public static void main(String args[]) {
java.awt.EventQueue.invokeLater(new Runnable() {
```

```
public void run() {
new Selling().setVisible(true);
}
});
}
```

Stage 4: TESTING

In testing stage, we ensure that every part of our application is working individual and is working with other part of application

We ensure that our application met with user and client needs .it is therefore safe to assume that the system passed every one of our recommendation and can successfully run locally on any device/computer presented

We are confident that all issues were resolved successfully and if any should come up we anticipate that regular maintenance of the system

Stage 5: DEPLOYMENT

Our application (pharmacy management system) is locally run and as such it sis deployed on the localhost server (**localhost 3306**) of the device.to insure that everything runs smoothly, the following applications were installed:

- **MySQL database server.**
- **XAMPP control panel.**
- **JDK-19.**
- **Apache NetBeans IDE 15.**
- **Mysql-connector-j-8.0.31.jar.**
- **Jcalendar-1.4.jar.**
- **rs2xml.jar.**

Each one of these applications and files ad to be installed on every computer/device to ensure the pharmacy management system application could work successfully