JAVA SWING BASED- E MEDICINE SALES SYSTEM- SQL CONNECTIVITY USING JDBC

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Report

Submitted in partial fulfilment of the Requirements for the award of the Degree of

BACHELOR OF ENGINEERING

IN

INFORMATION TECHNOLOGY

By

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BONAFIDE CERTIFICATE

This to Certify that the project report titled "E MEDICINE SALES SYSTEM"

project work of SUJITHA TADI bearing

Roll.no:**1602-18-737-107** who carried out this project under my supervision in the IV semester for the academic year 2019-2020.

<u>Signature</u>

external examiner

<u>Signature</u>

internal examiner

ABSTRACT

Digital marketing is also popularly known as online marketing or internet marketing. Online medicine purchase is popular worldwide due to convenience. This is a small-scale project for E medicine sales system. An online E medicine sales system that permits a customer to submit online orders for medicines or services from an online store that serves online customers. The basic idea is that customers can buy medicines online. The administrator can enter name, password and can create an account. User can post requirement for medicine. User can purchase medicine online. Medicine delivery provided by the nearest associate store. User can search for medicine in the online store. This application provides pre-information about the stock of the medicine. Users can order the required medicines online and can get them easily. They can even check the status of ordering. This application provides logins to the users. They can maintain their account. Once the customer decides to submit a purchase order, the customer may print all the contents of medicines in order to obtain a hard copy record of the transaction.

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REQUIREMENT ANALYSIS

List of tables:

- **LOGIN**
- HAS
- **USER ACCOUNT**
- **SEARCH**
- **MEDICINE**
- **ORDERS**
- **ORDER DETAILS**

List of attributes with their domain types:

LOGIN:

• Login id: number Username: varchar2

Password :varchar2

Login user:

Login id: number() User id: number() Day:DATE

User_account

User id: number() Username: varchar2() Password: varchar2()

Pno: number() Email: varchar(20) Address: varchar()

User_medicine:

User id: number() Mid: number() Quantity:number()

Day:DATE

Medicine:

Mid:number() Mname:varchar()

Price: number()

In stock: varchar2()

User_Orderdetails:

ORDER ID: NUMBER(5) MID :NUMBER(5) USER ID : NUMBER(5)

Day:DATE

Order_details:

ORDER_ID: NUMBER(5) TOTAL COST: NUMBER(8) STATUS: VARCHAR2(20)

THROUGH THIS PROJECT: It develops an online pharmacy application for medical store to get online medical orders from anywhere 24 hours. This project helps to store the data of users and medicines in every shop and track their orders. The data can be stored for future purpose in case the user forgets the order details. User can easily select the medicine he/she want to order and can place it very easily. As there is track of both users, medicines as well as orders this makes this project more efficient. Users can maintain their account. Once the customer decides to submit a purchase order, the customer may print all the contents of medicines in order to obtain a hard copy record of the transaction.

AIM:

To create a **Java GUI based registration form** which takes the values like: student ID, student name, father name, phone number, department, address, city, email id from the user. These values are to be updated in the database using **JDBC connectivity.**

ARCHITECTURE AND TECHNOLOGY USED:

SOFTWARE USED:

Java Eclipse, Oracle 11g Database, Java SE version 8, SQL Plus.

Java SWING:

SWING is a GUI widget toolkit for Java. It is part of Oracle's Java Foundation Classes (JFC) – an API for providing a graphical user interface (GUI) for Java programs.

Swing was developed to provide a more sophisticated set of GUI components than the earlier AWT. Swing provides a look and feel that emulates the look and feel of several platforms, and also supports a pluggable look and feel that allows applications to have a look and feel unrelated to the underlying platform. It has more powerful and flexible components than AWT. In addition to familiar components such as buttons, check boxes and labels, Swing provides several advanced components such as tabbed panel, scroll panes, trees, tables, and lists.

SQL:

Structure Query Language (SQL) is a database query language used for storing and managing data in Relational DBMS. SQL was the first commercial language introduced for E.F Codd's Relational model of database. Today almost all RDBMS (MySql, Oracle, Infomix, Sybase, MS Access) use SQL as the standard database query language. SQL is used to perform all types of data operations in RDBMS.

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Java-SQL Connectivity using JDBC:

Java Database Connectivity (**JDBC**) is an application programming interface (API) for the programming language Java, which defines how a client may access a database. It is a Java-based data access technology used for Java database connectivity. It is part of the Java Standard Edition platform, from Oracle Corporation. It provides methods to query and update data in a database and is oriented towards relational databases.

The connection to the database can be performed using Java programming (JDBC API) as:

```
public void connectToDB()
{
    try {
        Connection con=DriverManager.getConnection(
        "jdbc:oracle:thin:@localhost:1521:xe","project","project");

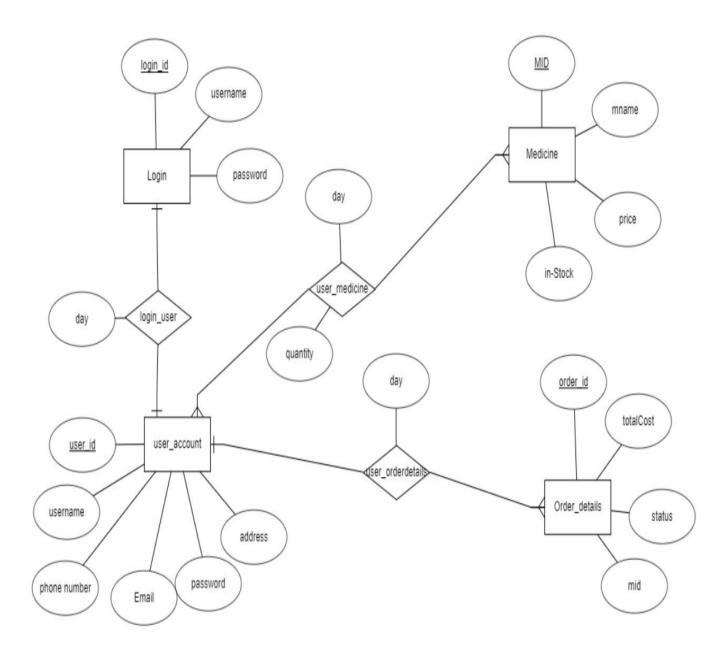
        statement=con.createStatement();
        statement.executeUpdate("commit");

    }
    catch (SQLException connectException)
    {
        System.out.println(connectException.getMessage());
        System.out.println(connectException.getSQLState());
        System.out.println(connectException.getErrorCode());
        System.exit(1);
    }
}
```

Thus, the connection from Java to Oracle database is performed and therefore, can be used for updating tables in the database directly.

DESIGN:

ER DIAGRAM:



DATA DESIGN:

Mapping Cardinalities and Participation Constraints:

A user can have a single login Id therefore one to one mapping cardinality between login and user account.

A user can search for many numbers of medicines and one medicine can be searched by many numbers of users so, many to many mapping cardinality between user account and medicine.

A user can give many numbers of orders but all orders of one user are considered as one therefore many to one mapping cardinality between user_account and order details.

DDL COMMANDS:

Table Created in SQL for above mentioned purpose is as:

SQL> create table login(login_id number(5) primary key,username varchar2(15),password varchar2(15));

Table created.

SQL> create table medicine(mid number(5) primary key,mname varchar2(15),price number(5),in_stock varchar2(7));

Table created.

SQL> create table user_account(user_id number(5) primary key,username varchar2(10),password varchar(10),pno number(10),email varchar(25),address varchar2(30)); Table created.

SQL> create table order_details(order_id number(5) primary key,total_cost number(8),status varchar2(20));
Table created.

SQL> create table login_user(login_id number(5),user_id number(5),day DATE,primary key(login_id,user_id),foreign key(login_id) references login(login_id),foreign key(user_id) references user_account(user_id));

Table created.

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SQL> create table user_medicine(user_id number(5),mid number(5),quantity number(5),day DATE,primary key(user_id,mid),foreign key(user_id) references user account(user id).foreign key(mid) references medicine(mid));

Table created.

SQL> create table user_orderdetails(order_id number(5) primary key,mid number(5),user_id number(5),day DATE,foreign key(order_id) references order_details(order_id), foreign key(mid) references medicine(mid), foreign key(user_id) references user_account(user_id)); Table created.

SQL> select * from tab;

TABTYPE CLUSTERID TNAME

LOGIN TABLE
LOGIN_USER TABL
MFDICINE TABLE **TABLE** MEDICINE TABLE
ORDER_DETAILS TABLE
USER_ACCOUNT TABLE
USER_MEDICINE TABLE TABLE USER ORDERDETAILS **TABLE**

7 rows selected.

SQL> desc login;

Name Null? Type

NOT NULL NUMBER(5) LOGIN ID VARCHAR2(15) USERNAME PASSWORD VARCHAR2(15)

SQL> desc login_user;

Null? Type Name

NOT NULL NUMBER(5) NOT NULL NUMBER(5) LOGIN ID USER ID

DAY DATE

SQL> desc medicine;

Null? Type Name

NOT NULL NUMBER(5) MID MNAME VARCHAR2(15) **PRICE** NUMBER(5)

IN STOCK VARCHAR2(7)

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DBMS MINI PROJECT

TILTLE: E MEDICINE SALES SYSTEM

SQL> desc order_details;

Name Null? Type

ORDER_ID NOT NULL NUMBER(5)
TOTAL_COST NUMBER(8)
STATUS VARCHAR2(20)

SQL> desc user_account;

Name Null? Type

USER_ID NOT NULL NUMBER(5)
USERNAME VARCHAR2(10)
PASSWORD VARCHAR2(10)

PNO NUMBER(10)
EMAIL VARCHAR2(25)
ADDRESS VARCHAR2(30)

SQL> desc user_medicine;

Name Null? Type

USER_ID NOT NULL NUMBER(5)
MID NOT NULL NUMBER(5)
QUANTITY NUMBER(5)

DAY DATE

SQL> desc user_orderdetails;

Name Null? Type

ORDER_ID NOT NULL NUMBER(5)

MID NUMBER(5)

USER_ID NOT NULL NUMBER(5)

DAY DATE

Implementation:

Program:

User Interface:

package EMed;

import java.awt.Color;

import java.awt.FlowLayout;

import java.awt.Font;

import java.awt.GridLayout;

import java.awt.Label;

import java.awt.event.WindowAdapter;

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```
import java.awt.event.WindowEvent;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JMenu;
import javax.swing.JMenuBar;
import javax.swing.JMenuItem;
import javax.swing.JOptionPane;
import javax.swing.JPanel;
public class EMedUI extends JFrame{
       /**
        */
       private static final long serialVersionUID = 1L;
       private JMenuBar mnu;
       private JMenu mnulogin;
       private JMenu mnulog_user;
       private JMenu mnuuser;
       private JMenu mnumed;
       private JMenu mnuuser med;
       private JMenu mnuorder_Det;
       private JMenu mnuuser_orderDet;
       private JMenuItem insert1,update1,delete1,view1;
       private JMenuItem insert2,update2,delete2,view2;
       private JMenuItem insert3,update3,delete3,view3;
       private JMenuItem insert4,update4,delete4,view4;
       private JMenuItem insert5, update5, delete5, view5;
       private JMenuItem insert6,update6,delete6,view6;
       private JMenuItem insert7,update7,delete7,view7;
       private JLabel labelName;
       private static JPanel p0,p1;
       void initialize() {
               mnu=new JMenuBar();
               mnulogin= new JMenu("Login");
               mnulog user= new JMenu("log user");
               mnuuser= new JMenu("User");
               mnumed= new JMenu("Medicines");
               mnuuser_med= new JMenu("User-Medicine");
               mnuorder_Det= new JMenu("Order_Details");
               mnuuser orderDet= new JMenu("User orderDet");
               labelName=new JLabel("E-MEDICINE SALES SYSTEM");
               p1=new JPanel();
               p0=new JPanel();
               insert1=new JMenuItem("Insert");
```

```
update1=new JMenuItem("Update");
       delete1=new JMenuItem("Delete");
       view1=new JMenuItem("View");
       insert2=new JMenuItem("Insert");
       update2=new JMenuItem("Update");
       delete2=new JMenuItem("Delete");
       view2=new JMenuItem("View");
       insert3=new JMenuItem("Insert");
       update3=new JMenuItem("Update");
       delete3=new JMenuItem("Delete");
       view3=new JMenuItem("View");
       insert4=new JMenuItem("Insert");
       update4=new JMenuItem("Update");
       delete4=new JMenuItem("Delete");
       view4=new JMenuItem("View");
       insert5=new JMenuItem("Insert");
       update5=new JMenuItem("Update"):
       delete5=new JMenuItem("Delete");
       view5=new JMenuItem("View");
       insert6=new JMenuItem("Insert");
       update6=new JMenuItem("Update");
       delete6=new JMenuItem("Delete");
       view6=new JMenuItem("View");
       insert7=new JMenuItem("Insert");
       update7=new JMenuItem("Update");
       delete7=new JMenuItem("Delete");
       view7=new JMenuItem("View"):
       insert1=new JMenuItem("Insert");
       update1=new JMenuItem("Update");
       delete1=new JMenuItem("Delete");
       view1=new JMenuItem("View");
void addComponentsToFrame() {
       mnulogin.add(insert1);
       mnulogin.add(delete1);
       mnulogin.add(update1);
       mnulogin.add(view1);
        mnulog_user.add(insert2);
       mnulog_user.add(delete2);
       mnulog user.add(update2);
       mnulog user.add(view2);
       mnuuser.add(insert3);
       mnuuser.add(delete3);
       mnuuser.add(update3);
       mnuuser.add(view3);
        mnumed.add(insert4);
       mnumed.add(delete4);
       mnumed.add(update4);
       mnumed.add(view4);
        mnuuser med.add(insert5);
       mnuuser med.add(delete5);
```

```
mnuuser_med.add(update5);
               mnuuser med.add(view5);
               mnuorder Det.add(insert6);
               mnuorder Det.add(delete6);
               mnuorder_Det.add(update6);
               mnuorder_Det.add(view6);
               mnuuser orderDet.add(insert7);
               mnuuser_orderDet.add(delete7);
               mnuuser_orderDet.add(update7);
               mnuuser orderDet.add(view7);
               mnu.add(mnulogin);
               mnu.add(mnuuser);
               mnu.add(mnulog_user);
               mnu.add(mnumed);
               mnu.add(mnuuser_med);
               mnu.add(mnuorder_Det);
               mnu.add(mnuuser orderDet);
               setJMenuBar(mnu);
               p1.add(labelName);p1.setAlignmentY(CENTER_ALIGNMENT);
               p1.setBounds(500,500,800,100);
              p0.add(p1);
               p0.setBackground(Color.CYAN);
               add(p0);
void closeWindow(){
              try {
                      int a=JOptionPane.showConfirmDialog(this,"Are you sure want to Quit EMedicine Sales
System:");
                      if(a==JOptionPane.YES_OPTION){
                             JOptionPane.showMessageDialog(this,
                                       "Thank you!\nExiting EMedicine Sales System","Quit",
                                       JOptionPane.WARNING_MESSAGE);
                             System.exit(0);
                      else if (a== JOptionPane.NO_OPTION) {
                             setDefaultCloseOperation(JFrame.DO_NOTHING_ON_CLOSE);
                      }
                      else if (a== JOptionPane.CANCEL_OPTION) {
                             setDefaultCloseOperation(JFrame.DO_NOTHING_ON_CLOSE);
                      }
              }
                      catch(Exception e) {
                             System.out.println(e);
       void register() {
              login log=new login(p0,EMedUI.this,insert1,delete1,update1,view1);
              log.buildGUI();
              User_account user=new User_account(p0,EMedUI.this,insert3,delete3,update3,view3);
              user.buildGUI();
              login_user log_user=new login_user(p0,EMedUI.this,insert2,delete2,update2,view2);
```

```
log user.buildGUI():
               Medicine med=new Medicine(p0,EMedUI.this,insert4,delete4,update4,view4);
               med.buildGUI();
               UserMedicine umed=new UserMedicine(p0,EMedUI.this,insert5,delete5,update5,view5);
               umed.buildGUI();
               orderDetails orders=new orderDetails(p0,EMedUI.this,insert6,delete6,update6,view6);
               orders.buildGUI();
               UserOrderDetails u_orders=new
UserOrderDetails(p0,EMedUI.this,insert7,delete7,update7,view7);
               u orders.buildGUI();
               addWindowListener(new WindowAdapter(){
                       public void windowClosing(WindowEvent we)
                              closeWindow();
               });
public EMedUI() {
               initialize();
               addComponentsToFrame();
               register();
               pack();
       //
               setBackground(Color.RED);
               setTitle("E-Medicine Sales System");
               setSize(800,800);
               setVisible(true);
       }
```

USER MEDICINE TABLE

package EMed;

```
import java.awt.BorderLayout;
import java.awt.Choice;
import java.awt.Color;
import java.awt.FlowLayout;
import java.awt.Font;
import java.awt.GridLayout;
import java.awt.Label;
import java.awt.List;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.awt.event.ItemEvent;
import java.awt.event.ItemListener;
import java.sql.*;
import java.util.StringTokenizer;
import javax.swing.JButton;
import javax.swing.JFrame;
```

```
import javax.swing.JLabel;
import javax.swing.JMenuItem;
import javax.swing.JOptionPane;
import javax.swing.JPanel;
import javax.swing.JScrollPane;
import javax.swing.JTable;
import javax.swing.JTextField;
import javax.swing.table.DefaultTableModel;
public class UserMedicine{
        /**
        *
        private static final long serialVersionUID = 1L;
        private JButton insertButton, deleteButton, updateButton, viewButton;
        private JPanel p1,p2,p3,p;
        private JLabel lbluser id,lblmid,lblquantity,lblday;
        private JTextField txtuser id,txtmid,txtquantity,txtday;
        private Choice user_id,mid;
        private List UserMIDList;
        Connection con; ResultSet rs;
        Statement statement:
        private JFrame frame;
        private JMenuItem insert, delete, update, view;
        public UserMedicine(JPanel p,JFrame frame,JMenuItem insert,JMenuItem delete,JMenuItem
update, JMenuItem view)
                try
                {
                        Class.forName("oracle.jdbc.driver.OracleDriver");
               catch (Exception e)
                        System.err.println("Unable to find and load driver");
                        System.exit(1);
               connectToDB();
               this.frame=frame;
                this.insert=insert:
               this.delete=delete;
                this.update=update;
                this.view=view;
                lbluser_id=new JLabel("User ID");
               lblmid=new JLabel("Medicine ID");
               lblquantity=new JLabel("Quantity");
                lblday=new JLabel("Date");
                user_id=new Choice();
```

```
mid=new Choice();
               txtuser id=new JTextField(15);
               txtmid=new JTextField(15);
               txtquantity=new JTextField(8);
               txtday=new JTextField(8);
               this.p=p;
       }
       public void connectToDB()
               try {
               Connection con=DriverManager.getConnection(
               "jdbc:oracle:thin:@localhost:1521:xe","project","project");
               statement=con.createStatement();
               statement.executeUpdate("commit");
               }
               catch (SQLException connectException)
                System.out.println(connectException.getMessage());
                System.out.println(connectException.getSQLState());
                System.out.println(connectException.getErrorCode());
                System.exit(1);
  }
       private void displaySQLErrors(SQLException e)
               JOptionPane.showMessageDialog(p,"\nSQLException: " + e.getMessage() + "\n"+"SQLState:
" + e.getSQLState() + "\n" + "VendorError: " + e.getErrorCode() + "\n");
       public void loaduserIDs() {
               try {
                       UserMIDList.removeAll();
                       rs=statement.executeQuery("select * from user_medicine");
                       while(rs.next()) {
                               UserMIDList.add(rs.getString("USER_ID")+"->"+rs.getString("MID"));
               catch(SQLException e) {
```

```
displaySQLErrors(e);
        }
public void loadusers() {
        try {
                user_id.removeAll();
                rs=statement.executeQuery("select * from user_account");
                while(rs.next()) {
                        user_id.add(rs.getString("User_ID"));
       catch(SQLException e) {
                displaySQLErrors(e);
public void loadmids() {
       try {
                mid.removeAll();
                rs=statement.executeQuery("select * from medicine");
                while(rs.next()) {
                        mid.add(rs.getString("MID"));
       catch(SQLException e) {
                displaySQLErrors(e);
public void buildGUI() {
       insert.addActionListener(new ActionListener() {
                @Override
                public void actionPerformed(ActionEvent arg0) {
                       // TODO Auto-generated method stub
                        insertButton=new JButton("insert");
                        txtuser_id.setText(null);
                        txtmid.setText(null);
                        txtquantity.setText(null);
                        txtday.setText(null);
                        loadusers();
                        loadmids();
                        p.removeAll();
                       frame.invalidate();
                        frame.validate();
                        frame.repaint();
                        p1=new JPanel();
```

```
pl.add(lbluser id);
                                                                                      p1.add(user_id);
                                                                                      p1.add(lblmid);
                                                                                      p1.add(mid);
                                                                                      pl.add(lblquantity);
                                                                                      p1.add(txtquantity);
                                                                                      p1.add(lblday);
                                                                                      p1.add(txtday);
                                                                                      p3=new JPanel(new FlowLayout());
                                                                                      p3.add(insertButton);
                                                                                      //p1.add(txtf1);
                                                                                      p3.setBackground(Color.yellow);
                                                                                     p3.setBounds(200,350,75,35);
                                                                                      pl.setBackground(Color.pink);
                                                                                      p1.setBounds(115,80,300,250);
                                                                                      p2 = new JPanel(new FlowLayout());
                                                                                                            UserMIDList=new List(10);
                                                                                                            loaduserIDs();
                                                                                                            p2.add(UserMIDList);
                                                                                                            p2.setBounds(450,150,350,180); p2.setBackground(Color.cyan);
                                                                                      p. add(p1);p.add(p3);
                                                                                      p. add(p2);
                                                                                     UserMIDList.setEnabled(false);
                                                                                      p.setLayout(new BorderLayout());
                                                                                                          frame.add(p);
                                                                                                          frame.setSize(800,800);
                                                                                                          frame.validate();
                                                                                      insertButton.addActionListener(new ActionListener() {
                                                                                                            @Override
                                                                                                                                public void actionPerformed(ActionEvent e) {
                                                                                                                                                     // TODO Auto-generated method stub
                                                                                     try {
                                                                                                          String query="INSERT INTO USER_MEDICINE
VALUES("+user\_id.getSelectedItem()+","+mid.getSelectedItem()+","+txtquantity.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+txtday.getText()+","+
)+"')";
                                                                                                          int i=statement.executeUpdate(query);
                                                                                                          JOptionPane.showMessageDialog(p,"\ninserted "+i+" rows
succesfully");loaduserIDs();
ROLL NO: 1602-18-737-107
```

p1.setLayout(new GridLayout(4,1));

```
catch(SQLException insertException){
                        displaySQLErrors(insertException);
                        });
        });
delete.addActionListener(new ActionListener() {
        @Override
        public void actionPerformed(ActionEvent arg0) {
                // TODO Auto-generated method stub
                deleteButton=new JButton("delete");
                //deleteButton.setSize(1,1);
                txtuser_id.setText(null);
                txtmid.setText(null);
                txtquantity.setText(null);
                txtday.setText(null);
                p.removeAll();
                frame.invalidate();
                frame.validate();
                frame.repaint();
                p1=new JPanel();
                p1.setLayout(new GridLayout(4,1));
                p1.add(lbluser_id);
                p1.add(txtuser_id);
                p1.add(lblmid);
                p1.add(txtmid);
                p1.add(lblquantity);
                p1.add(txtquantity);
                p1.add(lblday);
                p1.add(txtday);
                p3=new JPanel(new FlowLayout());
                p3.add(deleteButton);
                //p1.add(txtf1);
                p3.setBackground(Color.yellow);
```

```
p3.setBounds(200,350,75,35);
                                p1.setBackground(Color.pink);
                                p1.setBounds(115,80,300,250);
                                p2 = new JPanel(new FlowLayout());
                                        UserMIDList=new List(10);
                                        loaduserIDs();
                                        p2.add(UserMIDList);
                                        p2.setBounds(450,150,350,180); p2.setBackground(Color.cyan);
                                p. add(p1);p.add(p3);
                                p. add(p2);
                                UserMIDList.addItemListener(new ItemListener()
                                               public void itemStateChanged(ItemEvent e)
                                                       try
                                                       {
                                                               rs=statement.executeQuery("select * from
user_medicine");
                                                               StringTokenizer st=new
StringTokenizer(UserMIDList.getSelectedItem(),"->");
                                                               String p=st.nextToken();
                                                               String q=st.nextToken();
                                                               while (rs.next())
                                                                       if (rs.getString("user_id").equals(p) &&
rs.getString("mid").equals(q))
                                                                       break;
                                                               if (!rs.isAfterLast())
                                                                       txtmid.setText(rs.getString("mid"));
       txtuser_id.setText(rs.getString("user_id"));
       txtquantity.setText(rs.getString("quantity"));
                                                                       txtday.setText(rs.getString("day"));
                                                       catch (SQLException selectException)
                                                               displaySQLErrors(selectException);
                                                       }
                                       });
```

```
p.setLayout(new BorderLayout());
                                      frame.add(p);
                                      frame.setSize(800,800);
                                      frame.validate();
                               deleteButton.addActionListener(new ActionListener() {
                                       @Override
                                              public void actionPerformed(ActionEvent e) {
                                                     // TODO Auto-generated method stub
                              try {
                                      int a=JOptionPane.showConfirmDialog(p,"Are you sure want to
delete:");
                                      if(a==JOptionPane.YES_OPTION){
                                              StringTokenizer st=new
StringTokenizer(UserMIDList.getSelectedItem(),"->");
                                      String query="DELETE FROM USER_MEDICINE WHERE
USER_ID="+st.nextToken();
                                      int i=statement.executeUpdate(query);
                                      JOptionPane.showMessageDialog(p,"\nDeleted "+i+" rows
succesfully");loaduserIDs();
                                      }
                               }
                              catch(SQLException deleteException){
                                      displaySQLErrors(deleteException);
                               }
                               }
                                      });
                       });
               update.addActionListener(new ActionListener() {
                       @Override
                       public void actionPerformed(ActionEvent arg0) {
                              // TODO Auto-generated method stub
                              JButton updateButton = new JButton("update");
                               txtuser_id.setText(null);
                               txtmid.setText(null);
                               txtquantity.setText(null);
                              txtday.setText(null);
                              p.removeAll();
                              frame.invalidate();
```

frame.validate();

```
frame.repaint();
                               p1=new JPanel();
                               p1.setLayout(new GridLayout(4,1));
                               pl.add(lbluser_id);
                               p1.add(txtuser_id);
                               p1.add(lblmid);
                               p1.add(txtmid);
                               p1.add(lblquantity);
                               p1.add(txtquantity);
                               p1.add(lblday);
                               p1.add(txtday);
                               p3=new JPanel(new FlowLayout());
                               p3.add(updateButton);
                               //p1.add(txtf1);
                               p3.setBackground(Color.yellow);
                               p3.setBounds(200,350,75,35);
                               p1.setBackground(Color.pink);
                               p1.setBounds(115,80,300,250);
                               p2 = new JPanel(new FlowLayout());
                                       UserMIDList=new List(10);
                                       loaduserIDs();
                                       p2.add(UserMIDList);
                                       p2.setBounds(450,150,350,180); p2.setBackground(Color.cyan);
                               p. add(p1);p.add(p3);
                               p. add(p2);
                               UserMIDList.addItemListener(new ItemListener()
                                              public void itemStateChanged(ItemEvent e)
                                                      try
                                                      {
                                                              rs=statement.executeQuery("select * from
user_medicine");
                                                              StringTokenizer st=new
StringTokenizer(UserMIDList.getSelectedItem(),"->");
                                                              String p=st.nextToken();
                                                              String q=st.nextToken();
                                                              while (rs.next())
```

```
if (rs.getString("user_id").equals(p) &&
rs.getString("mid").equals(q))
                                                                      break;
                                                              if (!rs.isAfterLast())
                                                                      txtmid.setText(rs.getString("mid"));
       txtuser_id.setText(rs.getString("user_id"));
        txtquantity.setText(rs.getString("quantity"));
                                                                      txtday.setText(rs.getString("day"));
                                                       }
                                                      catch (SQLException selectException)
                                                              displaySQLErrors(selectException);
                                               }
                                       });
                               p.setLayout(new BorderLayout());
                                       frame.add(p);
                                       frame.setSize(800,800);
                                       frame.validate();
                               updateButton.addActionListener(new ActionListener() {
                                       @Override
                                               public void actionPerformed(ActionEvent e) {
                                                      // TODO Auto-generated method stub
                                               try {
                                                              int a=JOptionPane.showConfirmDialog(p,"Are
you sure want to update:");
                                                              if(a==JOptionPane.YES_OPTION){
                                                                      StringTokenizer st=new
StringTokenizer(UserMIDList.getSelectedItem(),"->");
                                                              String query="update user_medicine set
mid="+txtmid.getText()+",quantity="+txtquantity.getText()+",day=""+txtday.getText()+"' WHERE
USER ID="+st.nextToken()+"and mid="+st.nextToken();
                                                              int i=statement.executeUpdate(query);
                                                              JOptionPane.showMessageDialog(p,"\nupdated
"+i+" rows succesfully");loaduserIDs();
                                                              }
                                                      catch(SQLException deleteException){
                                                              displaySQLErrors(deleteException);
```

```
}
                                      });
                       });
               view.addActionListener(new ActionListener(){
                       @Override
                       public void actionPerformed(ActionEvent arg0) {
                              // TODO Auto-generated method stub
                              p.removeAll();
                              frame.invalidate();
                              frame.validate():
                              frame.repaint();
                              Label view1=new Label("User_Medicines view");
                              //view1.setAlignment(Label.CENTER);
                              Font myFont = new Font("Serif",Font.BOLD,50);
                               view1.setFont((myFont));
                               viewButton=new JButton("View");
                              p1=new JPanel();
                              p2=new JPanel();
                              p1.add(view1);
                              p2.add(viewButton);p1.setBackground(Color.cyan)
;p2.setBackground(Color.cyan);
                              p.add(p1);p.add(p2);
                               p.setLayout(new FlowLayout());
                               p.setBounds(500,800,300,300);
                              frame.add(p);
                              frame.setSize(800,800);
                               frame.validate();
                               viewButton.addActionListener(new ActionListener() {
                                       @Override
                                              public void actionPerformed(ActionEvent e) {
                                                     // TODO Auto-generated method stub
                                              JFrame f;
                                                JTable i;
                                                  f = new JFrame();
                                                   f.setTitle("User_Medicine Details ");
                                                  DefaultTableModel model = new DefaultTableModel();
                                                  j = new JTable(model);
                                                  model.addColumn("User ID");
```

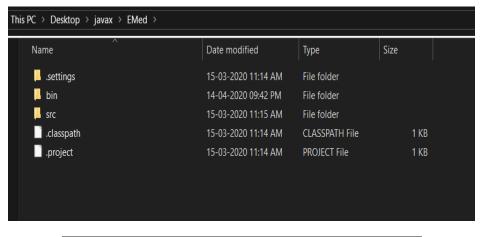
```
model.addColumn("Medicine ID");
                                                   model.addColumn("Quantity");
                                                   model.addColumn("Day");
                                                   try {
                                                                       rs=statement.executeQuery("select *
from user_medicine");
                                                                       while(rs.next()) {
                                                                               model.addRow(new
Object[]{rs.getString("user_id"), rs.getString("mid"),rs.getString("quantity"),rs.getString("day")});
                                                               catch(SQLException viewException) {
                                                                       displaySQLErrors(viewException);
                                                               j.setEnabled(false);
                                                    j.setBounds(30, 40, 180, 150);
                                                    JScrollPane sp = new JScrollPane(j);
                                                    f.add(sp);
                                                    f.setSize(500, 400);
                                                    f.setVisible(true);
                                       });
               });
        }
```

GITHUB LINK:

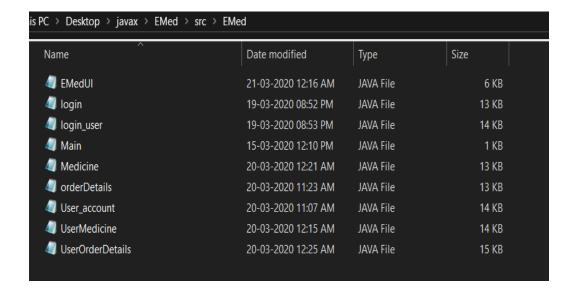
https://github.com/sujithatadi/DBMS-PROJECT

ROLL NO: 1602-18-737-107

FOLDER STRUCTURE:







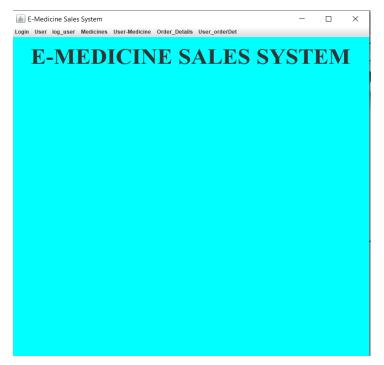
ROLL NO: 1602-18-737-107

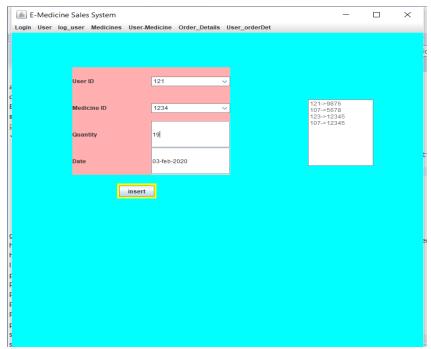
NAME: TADI SUJITHA [26]

Testing:

OUTPUT SCREENSHOTS:

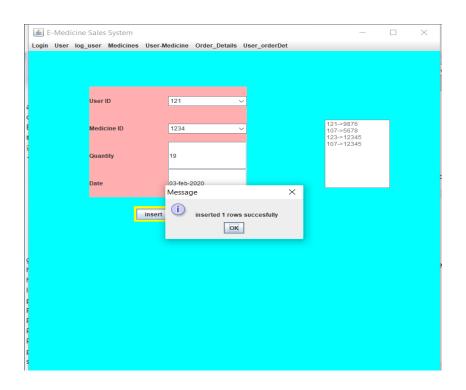
Java GUI Screenshot:

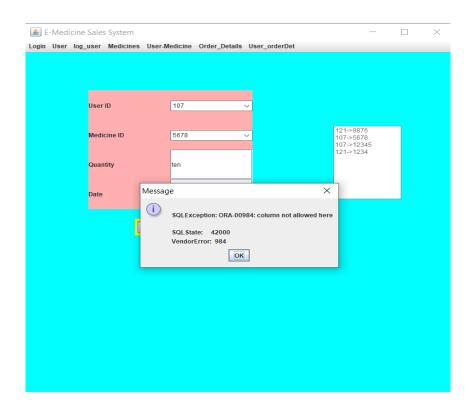


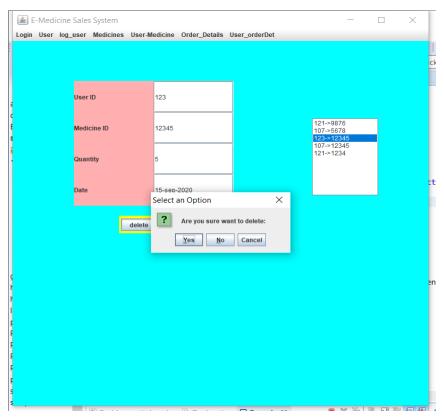


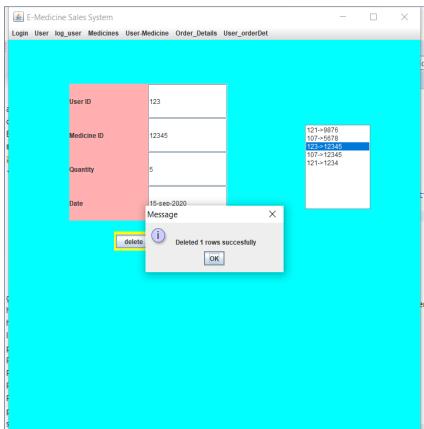
ROLL NO: 1602-18-737-107

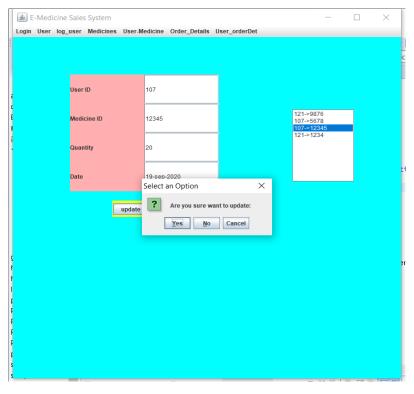
NAME: TADI SUJITHA [27]

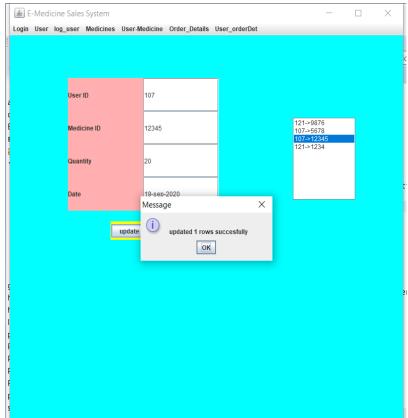


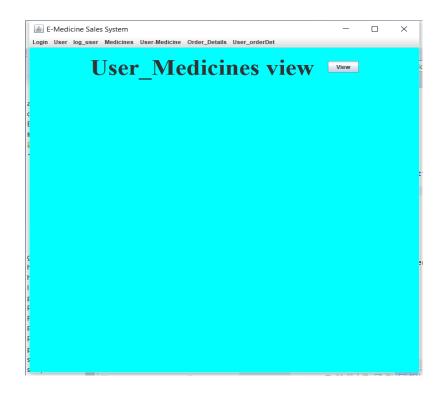


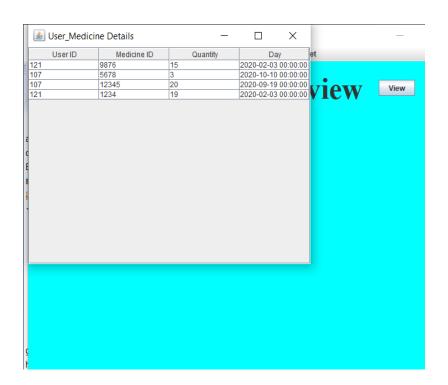




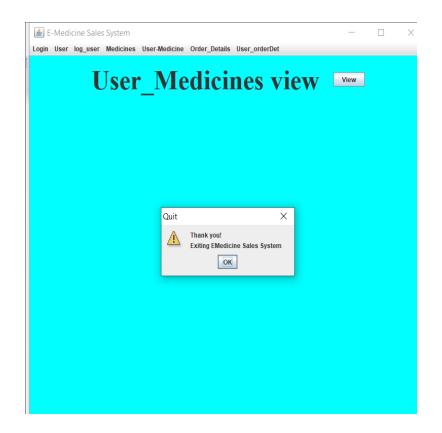












The data entered in the above form is updated in the "user_medicine" table of the Oracle database 11g as:

```
Run SQL Command Line
SQL*Plus: Release 11.2.0.2.0 Production on Fri Apr 17 15:11:10 2020
Copyright (c) 1982, 2010, Oracle. All rights reserved.
SQL> conn project/project
Connected.
SQL> select * from user medicine;
                MID QUANTITY DAY
               9876
                           15 03-FEB-20
      121
      107
                            3 10-OCT-20
      107
              12345
                            20 19-SEP-20
               1234
                            19 03-FEB-20
SQL>
```

Results:

I had successfully completed MINI PROJECT on "E MEDICINE SALES SYSTEM".

Discussion and future Work:

This application provides the customer to select the medicines and can order them from respective medical shops and track the order. While working on this project I wanted to extend to make a app which is user friendly and provides accurate information. It stores the details and data of users, medicines and orders in appropriate manner.

CONCLUSION:

Thus, a Java SWING based E-MEDICINE SALES SYSTEM is created which is connected to the Oracle 11g database. Therefore, all the entries and details are directly updated on their respective tables created in the database.

REFERENCES:

- https://docs.oracle.com/javase/7/docs/api/
- https://www.javatpoint.com/dbms-tutorial
- https://en.wikipedia.org/wiki/Online pharmacy