

**JAVA SWINGS BASED- DAIRY MANAGEMENT SYSTEM**  
**- SQL CONNECTIVITY USING JDBC**

*A*

*Report*

*Submitted in partial fulfillment of the*  
*Requirements for the award of the Degree of*

**BACHELOR OF ENGINEERING**

**IN**

**INFORMATION TECHNOLOGY**

**By**

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## BONAFIDE CERTIFICATE

This is to certify that this project report titled '**DAIRY MANAGEMENT SYSTEM**' is a project work of Mr. Joshua Peter bearing roll no. 1602-19-737-075 who carried out the project under my supervision in the IV semester for the academic year 2020- 2021.

Signature

Internal Examiner

Signature

External Examiner

**ABSTRACT:**

The most popular thing now-a-days is Digital marketing. Which is also known as online or internet marketing. Dairy Product Management System is a console-based application which allows a customer to place online orders for the dairy products they need through an online store.

User can login and they can buy these products online. Customers can also maintain their account and their transactions. Here the user can search for the product they need. The application provides information on the availability of this product. The customer can order what he needs and simply get it (The customer can select the company as well as the Category they need). They can also check the status of your order. As soon as the customer decides to buy a certain product/item, they can place an order. It can also print the billing details of the transaction.

## **REQUIREMENT ANALYSIS:**

### **List of Tables:**

- Login
- Customer
- Orders\_From
- Company
- Selects
- Category
- Orders
- Details
- Customer\_login

### **List of attributes with their domain types:**

#### **Login:**

- Login\_id: number(5)
- Name: varchar2(20)
- Password: varchar2(20)

#### **Customer:**

- Customer\_id: number(5)
- Customer\_name: varchar2(20)
- phone\_no: number(10)
- email: varchar2(20)
- address: varchar2(20)

#### **orders\_from:**

- Customer\_id: number(5)
- Company\_id: number(5)
- Date: DATE

#### **Company:**

- Company\_id: number(5)
- Company\_name: varchar2(20)

**Selects:**

- company\_id: number(5)
- category\_id: number(5)

**Category:**

- Category\_id: number(5)
- Category\_name: varchar(20)
- Price: number(5)
- code: varchar(20)
- Availability: varchar2(20)

**Orders:**

- Customer\_id: number(5)
- Date: DATE
- Order\_id: number(5)

**Details:**

- Order\_id: number(5)
- Total\_amt: number(10)
- status: varchar2(20)

**Customer\_login:**

- Login\_id: number(5)
- Customer\_id: number(5)
- day: DATE

## AIM AND PRIORITY OF THE PROJECT

To create a Java GUI based dairy management system which takes the values like: user id, password for login and stores details of all users, admin and their details. It also stores the details of the company and products and their availability. These values are to be updated in the database using JDBC connectivity.

## ARCHITECTURE AND TECHNOLOGY

**Software used:** Java Eclipse, Oracle 11g Database, Java SE version 13, SQL\*Plus.

### Java SWINGS:

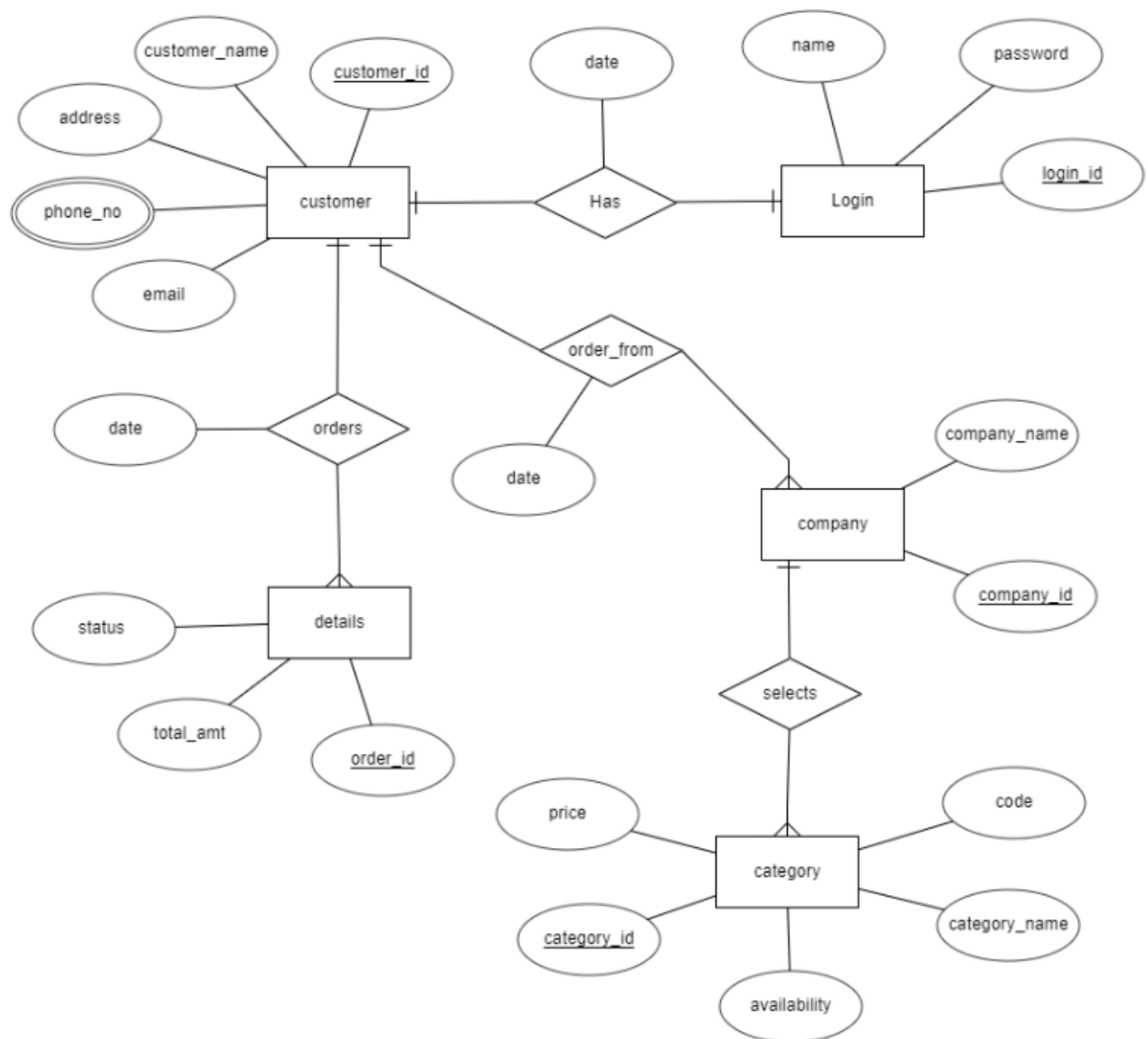
**Java SWINGS** is an API to develop GUI or window-based applications in java. Java SWING components are platform-independent. It is lightweight. The javax.swing package provides classes for SWING API such as JTextField, JLabel, JTextArea, JRadioButton, JCheckBox, JChoice, JList etc.

### 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.

## DESIGN:

### ER DIAGRAM:



### **Mapping Cardinality and participation constraints:**

A customer can have a single login\_id. Therefore, one to one mapping cardinality between login and customer account.

A customer can order from any number of companies and single company can be searched by any number of users. So, one to many mapping cardinality between customer and company.

A single company can contain any number of Categories. Therefore, one to many mapping cardinality between company and Category.

A single customer can have any number of order details but all orders of one user are considered as one. So, one to many mapping cardinality between customer and details of the order.



### DDL COMMANDS:

```
create table login(login_id number(5), name varchar2(20),  
password varchar2(20), primary key (login_id));
```

```
create table customer_login(login_id number(5), Customer_id number(5),  
day date, primary key(login_id,customer_id),  
foreign key(login_id) references login(login_id),  
foreign key(Customer_id) references customer(Customer_id));
```

```
create table customer (Customer_id number(5),  
customer_name varchar2(20), phone_no number(10),  
email varchar2(20), address varchar2(20), primary key (Customer_id));
```

```
create table Company( Company_id number(5), Company_name varchar2(20),  
primary key(Company_id));
```

```
create table orders_from( Customer_id number(5), Company_id number(5),  
day date, primary key(Customer_id,Company_id),  
foreign key(Customer_id) references customer(Customer_id),  
foreign key(Company_id) references company(Company_id));
```

```
create table Category(Category_id number(5), Category_name varchar2(20),  
Price number(5), Code varchar2(20), Availability varchar2(20),  
primary key(Category_id));
```

```
create table selects(Category_id number(5),Company_id number(5),  
primary key(Company_id,Category_id), day date,  
foreign key(Company_id) references company(Company_id),  
foreign key(Category_id) references Category(Category_id));
```

```
create table Details(order_id number(5), total_amt number(10),  
status varchar2(20), primary key(order_id));
```

```
create table Orders(Customer_id number(5), order_id number(5),  
day date, primary key(Customer_id,order_id),  
foreign key(Customer_id) references customer(Customer_id),  
foreign key(order_id) references Details(order_id));
```

## DAIRY MANAGEMNET SYSTEM

```
SQL> desc login;
```

Name	Null?	Type
LOGIN_ID	NOT NULL	NUMBER(5)
NAME		VARCHAR2(20)
PASSWORD		VARCHAR2(20)

```
SQL> desc customer;
```

Name	Null?	Type
LOGIN_ID		NUMBER(5)
CUSTOMER_ID	NOT NULL	NUMBER(5)
CUSTOMER_NAME		VARCHAR2(20)
PHONE_NO		NUMBER(10)
EMAIL		VARCHAR2(20)
ADDRESS		VARCHAR2(20)

```
SQL> desc company;
```

Name	Null?	Type
COMPANY_ID	NOT NULL	NUMBER(5)
COMPANY_NAME		VARCHAR2(20)

```
SQL> desc orders_from;
```

Name	Null?	Type
CUSTOMER_ID	NOT NULL	NUMBER(5)
COMPANY_ID	NOT NULL	NUMBER(5)
DAY		DATE

```

SQL> desc category;
Name                                Null?    Type
-----
CATEGORY_ID                        NOT NULL NUMBER(5)
CATEGORY_NAME                      VARCHAR2(20)
PRICE                              NUMBER(5)
CODE                               VARCHAR2(20)
AVAILABILITY                       VARCHAR2(20)

SQL> desc selects;
Name                                Null?    Type
-----
CATEGORY_ID                        NOT NULL NUMBER(5)
COMPANY_ID                         NOT NULL NUMBER(5)

SQL> desc details;
Name                                Null?    Type
-----
ORDER_ID                           NOT NULL NUMBER(5)
TOTAL_AMT                           NUMBER(10)
STATUS                             VARCHAR2(20)

SQL> desc orders;
Name                                Null?    Type
-----
CUSTOMER_ID                        NOT NULL NUMBER(5)
ORDER_ID                           NOT NULL NUMBER(5)
DAY                                DATE

```

## DML COMMANDS

```
insert into login values(&login_id,'&name','&password');
```

```
insert into customer_login values(&login_id,&customer_id,&day);
```

```
insert into customer values(&customer_id,'&customer_name',&phone_no,'&email','&address');
```

```
insert into company values(&company_id,'&company_name');
```

```
insert into category values(&category_id, '&category_name', &price, '&code','&availability');
```

```
insert into orders_from values(&customer_id,&company_id,&day);
```

```
insert into details values(&order_id,&total_amt,'&status');
```

```
insert into selects values(&category_id, &company_id);
```

```
insert into orders values(&customer_id,&order_id,&day);
```

```
SQL> insert into login values(&login_id,&'name',&'password');
Enter value for login_id: 3
Enter value for name: ram
Enter value for password: zora
old 1: insert into login values(&login_id,&'name',&'password')
new 1: insert into login values(3,'ram','zora')

1 row created.

SQL> /
Enter value for login_id: 4
Enter value for name: john
Enter value for password: polly
old 1: insert into login values(&login_id,&'name',&'password')
new 1: insert into login values(4,'john','polly')

1 row created.

SQL> /
Enter value for login_id: 5
Enter value for name: sam
Enter value for password: qwrtery
old 1: insert into login values(&login_id,&'name',&'password')
new 1: insert into login values(5,'sam','qwrtery')

1 row created.

SQL> /
Enter value for login_id: 6
Enter value for name: abhi
Enter value for password: oblge
old 1: insert into login values(&login_id,&'name',&'password')
new 1: insert into login values(6,'abhi','oblge')

1 row created.
```

```
SQL> /
Enter value for login_id: 7
Enter value for name: vamsi
Enter value for password: chihk
old 1: insert into login values(&login_id,&name,&password')
new 1: insert into login values(7,'vamsi','chihk')

1 row created.
```

```
SQL> select * from login;
```

LOGIN_ID	NAME	PASSWORD
1	joshua	koklol
2	peter	hublly
3	ram	zora
4	john	polly
5	sam	qwrtery
6	abhi	oblge
7	vamsi	chihk

```
SQL> insert into customer values(&login_id,&customer_id,&customer_name,&phone_no,&email,&address');
Enter value for login_id: 1
Enter value for customer_id: 105
Enter value for customer_name: joshua
Enter value for phone_no: 9876565765
Enter value for email: joshua@gmail.com
Enter value for address: himayatnagar
old 1: insert into customer values(&login_id,&customer_id,&customer_name,&phone_no,&email,&address')
new 1: insert into customer values(1,105,'joshua',9876565765,'joshua@gmail.com','himayatnagar')

1 row created.
```

```
SQL> /
Enter value for login_id: 3
Enter value for customer_id: 104
Enter value for customer_name: ram
Enter value for phone_no: 3648769347
Enter value for email: ram@outlook.com
Enter value for address: gandhinagar
old 1: insert into customer values(&login_id,&customer_id,&customer_name,&phone_no,&email,&address')
new 1: insert into customer values(3,104,'ram',3648769347,'ram@outlook.com','gandhinagar')

1 row created.
```

```
SQL> /
Enter value for login_id: 5
Enter value for customer_id: 103
Enter value for customer_name: sam
Enter value for phone_no: 5675879466
Enter value for email: sam@gmail.com
Enter value for address: nallakunta
old 1: insert into customer values(&login_id,&customer_id,&customer_name,&phone_no,&email,&address')
new 1: insert into customer values(5,103,'sam',5675879466,'sam@gmail.com','nallakunta')

1 row created.
```

## DAIRY MANAGEMNET SYSTEM

```
SQL> insert into customer values(&login_id,&customer_id,&'customer_name',&phone_no,&'email',&'&address');
Enter value for login_id: 2
Enter value for customer_id: 101
Enter value for customer_name: peter
Enter value for phone_no: 2345678765
Enter value for email: peter@gmail.com
Enter value for address: nallakunta
old 1: insert into customer values(&login_id,&customer_id,&'customer_name',&phone_no,&'email',&'&address')
new 1: insert into customer values(2,101,'peter',2345678765,'peter@gmail.com','nallakunta')

1 row created.

SQL> /
Enter value for login_id: 6
Enter value for customer_id: 107
Enter value for customer_name: abhi
Enter value for phone_no: 8745487675
Enter value for email: abhi@outlook.com
Enter value for address: BHEL
old 1: insert into customer values(&login_id,&customer_id,&'customer_name',&phone_no,&'email',&'&address')
new 1: insert into customer values(6,107,'abhi',8745487675,'abhi@outlook.com','BHEL')

1 row created.
```

```
SQL> select * from customer;
```

LOGIN_ID	CUSTOMER_ID	CUSTOMER_NAME	PHONE_NO	EMAIL	ADDRESS
1	105	joshua	9876565765	joshua@gmail.com	himayatnagar
3	104	ram	3648769347	ram@outlook.com	gandhinagar
5	103	sam	5675879466	sam@gmail.com	nallakunta
7	102	vamsi	8597868765	vamsi@hotmail.com	hyderguda
2	101	peter	2345678765	peter@gmail.com	nallakunta
6	107	abhi	8745487675	abhi@outlook.com	BHEL

6 rows selected.

```
SQL> insert into company values(&company_id,&company_name');
Enter value for company_id: 201
Enter value for company_name: Amul
old 1: insert into company values(&company_id,&company_name')
new 1: insert into company values(201,'Amul')

1 row created.

SQL> /
Enter value for company_id: 202
Enter value for company_name: Heritage
old 1: insert into company values(&company_id,&company_name')
new 1: insert into company values(202,'Heritage')

1 row created.

SQL> /
Enter value for company_id: 203
Enter value for company_name: Jersey
old 1: insert into company values(&company_id,&company_name')
new 1: insert into company values(203,'Jersey')

1 row created.

SQL> /
Enter value for company_id: 204
Enter value for company_name: hutson
old 1: insert into company values(&company_id,&company_name')
new 1: insert into company values(204,'hutson')

1 row created.
```



```
SQL> /
Enter value for company_id: 205
Enter value for company_name: thirumala
old 1: insert into company values(&company_id,&company_name')
new 1: insert into company values(205,'thirumala')

1 row created.

SQL> select * from company;

COMPANY_ID COMPANY_NAME
-----
201 Amul
202 Heritage
203 Jersey
204 hutson
205 thirumala
```

```
SQL> insert into category values(&category_id, '&category_name', &price, '&code','&availability');
Enter value for category_id: 301
Enter value for category_name: milk
Enter value for price: 45
Enter value for code: mk01
Enter value for availability: yes
old 1: insert into category values(&category_id, '&category_name', &price, '&code','&availability')
new 1: insert into category values(301, 'milk', 45, 'mk01','yes')

1 row created.

SQL> /
Enter value for category_id: 302
Enter value for category_name: butter
Enter value for price: 100
Enter value for code: bt01
Enter value for availability: yes
old 1: insert into category values(&category_id, '&category_name', &price, '&code','&availability')
new 1: insert into category values(302, 'butter', 100, 'bt01','yes')

1 row created.

SQL> /
Enter value for category_id: 303
Enter value for category_name: curd
Enter value for price: 40
Enter value for code: cd01
Enter value for availability: yes
old 1: insert into category values(&category_id, '&category_name', &price, '&code','&availability')
new 1: insert into category values(303, 'curd', 40, 'cd01','yes')

1 row created.
```

## DAIRY MANAGEMNET SYSTEM

```
SQL> /
Enter value for category_id: 304
Enter value for category_name: paneer
Enter value for price: 200
Enter value for code: pn01
Enter value for availability: yes
old 1: insert into category values(&category_id, '&category_name', &price, '&code','&availability')
new 1: insert into category values(304, 'paneer', 200, 'pn01','yes')

1 row created.

SQL> /
Enter value for category_id: 305
Enter value for category_name: ghee
Enter value for price: 360
Enter value for code: gh01
Enter value for availability: yes
old 1: insert into category values(&category_id, '&category_name', &price, '&code','&availability')
new 1: insert into category values(305, 'ghee', 360, 'gh01','yes')

1 row created.
```

```
SQL> select * from category;
```

CATEGORY_ID	CATEGORY_NAME	PRICE	CODE
-------------	---------------	-------	------

AVAILABILITY
--------------

yes	301 milk	45	mk01
-----	----------	----	------

yes	302 butter	100	bt01
-----	------------	-----	------

yes	303 curd	40	cd01
-----	----------	----	------

CATEGORY_ID	CATEGORY_NAME	PRICE	CODE
-------------	---------------	-------	------

AVAILABILITY
--------------

yes	304 paneer	200	pn01
-----	------------	-----	------

yes	305 ghee	360	gh01
-----	----------	-----	------

## DAIRY MANAGEMNET SYSTEM

```
SQL> insert into orders_from values(&customer_id,&company_id,&day);
Enter value for customer_id: 101
Enter value for company_id: 201
Enter value for day: TO_DATE('12/10/2020','DD/MM/YYYY')
old 1: insert into orders_from values(&customer_id,&company_id,&day)
new 1: insert into orders_from values(101,201,TO_DATE('12/10/2020','DD/MM/YYYY'))

1 row created.
```

```
SQL> /
Enter value for customer_id: 103
Enter value for company_id: 205
Enter value for day: TO_DATE('17/11/2020','DD/MM/YYYY')
old 1: insert into orders_from values(&customer_id,&company_id,&day)
new 1: insert into orders_from values(103,205,TO_DATE('17/11/2020','DD/MM/YYYY'))

1 row created.
```

```
SQL> /
Enter value for customer_id: 104
Enter value for company_id: 203
Enter value for day: TO_DATE('24/04/2020','DD/MM/YYYY')
old 1: insert into orders_from values(&customer_id,&company_id,&day)
new 1: insert into orders_from values(104,203,TO_DATE('24/04/2020','DD/MM/YYYY'))

1 row created.
```

```
SQL> /
Enter value for customer_id: 102
Enter value for company_id: 202
Enter value for day: TO_DATE('03/07/2020','DD/MM/YYYY')
old 1: insert into orders_from values(&customer_id,&company_id,&day)
new 1: insert into orders_from values(102,202,TO_DATE('03/07/2020','DD/MM/YYYY'))

1 row created.
```

```
SQL> /
Enter value for customer_id: 105
Enter value for company_id: 204
Enter value for day: TO_DATE('10/04/2020','DD/MM/YYYY')
old 1: insert into orders_from values(&customer_id,&company_id,&day)
new 1: insert into orders_from values(105,204,TO_DATE('10/04/2020','DD/MM/YYYY'))

1 row created.
```

```
SQL> select * from orders_from;
```

CUSTOMER_ID	COMPANY_ID	DAY
101	201	12-OCT-20
103	205	17-NOV-20
104	203	24-APR-20
102	202	03-JUL-20
105	204	10-APR-20

```
SQL> insert into details values(&order_id,&total_amt,&'&status');
Enter value for order_id: 401
Enter value for total_amt: 300
Enter value for status: under process
old 1: insert into details values(&order_id,&total_amt,&'&status')
new 1: insert into details values(401,300,'under process')

1 row created.

SQL> /
Enter value for order_id: 402
Enter value for total_amt: 450
Enter value for status: confirmed
old 1: insert into details values(&order_id,&total_amt,&'&status')
new 1: insert into details values(402,450,'confirmed')

1 row created.
```

```
SQL> /
Enter value for order_id: 403
Enter value for total_amt: 120
Enter value for status: delivering
old 1: insert into details values(&order_id,&total_amt,&'&status')
new 1: insert into details values(403,120,'delivering')

1 row created.

SQL> /
Enter value for order_id: 404
Enter value for total_amt: 150
Enter value for status: confirmed
old 1: insert into details values(&order_id,&total_amt,&'&status')
new 1: insert into details values(404,150,'confirmed')

1 row created.

SQL> /
Enter value for order_id: 405
Enter value for total_amt: 250
Enter value for status: delivered
old 1: insert into details values(&order_id,&total_amt,&'&status')
new 1: insert into details values(405,250,'delivered')

1 row created.
```

```
SQL> select * from details;
```

ORDER_ID	TOTAL_AMT	STATUS
401	300	under process
402	450	confirmed
403	120	delivering
404	150	confirmed
405	250	delivered

```
SQL> insert into selects values(&category_id, &company_id);
Enter value for category_id: 301
Enter value for company_id: 201
old 1: insert into selects values(&category_id, &company_id)
new 1: insert into selects values(301, 201)
```

```
1 row created.
```

```
SQL> /
Enter value for category_id: 302
Enter value for company_id: 202
old 1: insert into selects values(&category_id, &company_id)
new 1: insert into selects values(302, 202)
```

```
1 row created.
```

```
SQL> /
Enter value for category_id: 303
Enter value for company_id: 201
old 1: insert into selects values(&category_id, &company_id)
new 1: insert into selects values(303, 201)
```

```
1 row created.
```

```
SQL> /
Enter value for category_id: 304
Enter value for company_id: 203
old 1: insert into selects values(&category_id, &company_id)
new 1: insert into selects values(304, 203)
```

```
1 row created.
```

```
SQL> /
Enter value for category_id: 305
Enter value for company_id: 205
old 1: insert into selects values(&category_id, &company_id)
new 1: insert into selects values(305, 205)
```

```
1 row created.
```

```
SQL> select * from selects;
```

CATEGORY_ID	COMPANY_ID
301	201
302	202
303	201
304	203
305	205

```
SQL> insert into orders values(&customer_id,&order_id,&day);
```

```
Enter value for customer_id: 101
```

```
Enter value for order_id: 405
```

```
Enter value for day: TO_DATE('17/11/2020','DD/MM/YYYY')
```

```
old 1: insert into orders values(&customer_id,&order_id,&day)
```

```
new 1: insert into orders values(101,405,TO_DATE('17/11/2020','DD/MM/YYYY'))
```

```
1 row created.
```

```
SQL> /
```

```
Enter value for customer_id: 102
```

```
Enter value for order_id: 403
```

```
Enter value for day: TO_DATE('11/10/2020','DD/MM/YYYY')
```

```
old 1: insert into orders values(&customer_id,&order_id,&day)
```

```
new 1: insert into orders values(102,403,TO_DATE('11/10/2020','DD/MM/YYYY'))
```

```
1 row created.
```

```
SQL> /
```

```
Enter value for customer_id: 103
```

```
Enter value for order_id: 404
```

```
Enter value for day: TO_DATE('20/04/2020','DD/MM/YYYY')
```

```
old 1: insert into orders values(&customer_id,&order_id,&day)
```

```
new 1: insert into orders values(103,404,TO_DATE('20/04/2020','DD/MM/YYYY'))
```

```
1 row created.
```

```
SQL> /
```

```
Enter value for customer_id: 104
```

```
Enter value for order_id: 402
```

```
Enter value for day: TO_DATE('26/02/2020','DD/MM/YYYY')
```

```
old 1: insert into orders values(&customer_id,&order_id,&day)
```

```
new 1: insert into orders values(104,402,TO_DATE('26/02/2020','DD/MM/YYYY'))
```

```
1 row created.
```

```

SQL> /
Enter value for customer_id: 105
Enter value for order_id: 401
Enter value for day: TO_DATE('12/06/2020','DD/MM/YYYY')
old 1: insert into orders values(&customer_id,&order_id,&day)
new 1: insert into orders values(105,401,TO_DATE('12/06/2020','DD/MM/YYYY'))

1 row created.

SQL> select * from orders;

CUSTOMER_ID  ORDER_ID DAY
-----
          101         405 17-NOV-20
          102         403 11-OCT-20
          103         404 20-APR-20
          104         402 26-FEB-20
          105         401 12-JUN-20

```

## IMPLEMENTATION

### Front end programs and its connectivity

**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","joshua","vasavi");
        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.

## MAIN METHOD:

```

package Edairy;
import java.awt.BorderLayout;
import java.awt.EventQueue;
import Edairy.*;
import java.sql.*;
import javax.sql.*;
import javax.swing.*;
import javax.swing.border.EmptyBorder;
import javax.swing.event.MenuEvent;
import javax.swing.event.MenuListener;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;

public class Main extends JFrame{
    private JFrame recommendedmedicines;
    private JTextField txtLoginId;
    private JPasswordField txtPassword;
    private JTextField txtname;
    private JPanel contentPane;
    Statement statement;
    Connection con;ResultSet rs;
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    Main window = new Main();
                    window.recommendedmedicines.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }
    public void connectToDB()
    {
        try {
            Connection con=DriverManager.getConnection(
                "jdbc:oracle:thin:@localhost:1521:xe","joshua","vasavi");
            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);
        }
    }
    public Main() {
        initialize();
    }
}

```



```

JButton btnLogin;
JButton btnSignup;
JLabel lblNewLabel_2;
private void initialize() {
    recommendedmedicines = new JFrame();
    recommendedmedicines.setTitle("Dairy Store");
    recommendedmedicines.setBounds(100, 100, 450, 300);
    recommendedmedicines.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    recommendedmedicines.getContentPane().setLayout(null);
    JMenuBar menuBar = new JMenuBar();
    recommendedmedicines.setJMenuBar(menuBar);
    JMenu mnNewMenu = new JMenu("Log In");
    mnNewMenu.addMenuListener(new MenuListener() {
        public void menuCanceled(MenuEvent e) {
        }
        public void menuDeselected(MenuEvent e) {
        }
        public void menuSelected(MenuEvent e) {
            btnLogin.setVisible(true);
            btnSignup.setVisible(false);
            txtname.setVisible(false);
            lblNewLabel_2.setVisible(false);
        }
    });
    JMenu mnNewMenu1 = new JMenu("Signup");
    mnNewMenu1.addMenuListener(new MenuListener() {
        public void menuCanceled(MenuEvent e) {
        }
        public void menuDeselected(MenuEvent e) {
        }
        public void menuSelected(MenuEvent e) {
            btnLogin.setVisible(false);
            btnSignup.setVisible(true);
            txtname.setVisible(true);
            lblNewLabel_2.setVisible(true);
        }
    });
    menuBar.add(mnNewMenu);
    menuBar.add(mnNewMenu1);
    txtLoginId = new JTextField();
    txtLoginId.setBounds(198, 47, 96, 20);
    recommendedmedicines.getContentPane().add(txtLoginId);
    txtLoginId.setColumns(10);
    txtname = new JTextField();
    txtname.setBounds(198, 126, 96, 20);
    recommendedmedicines.getContentPane().add(txtname);
    txtname.setColumns(10);
    txtname.setVisible(false);
    JLabel lblNewLabel = new JLabel("Login Id");
    lblNewLabel.setBounds(76, 50, 84, 14);
    recommendedmedicines.getContentPane().add(lblNewLabel);
    JLabel lblNewLabel_1 = new JLabel("Password");
    lblNewLabel_1.setBounds(76, 88, 84, 14);

```

```

recommendedmedicines.getContentPane().add(lblNewLabel_1);
lblNewLabel_2 = new JLabel("User Name");
lblNewLabel_2.setBounds(76, 126, 84, 14);
recommendedmedicines.getContentPane().add(lblNewLabel_2);
lblNewLabel_2.setVisible(false);
btnLogin = new JButton("Login");
btnLogin.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        boolean isValidUser=false;
        try {
            connectToDB();
            String txt = "select login_id,password from login where
login_id = '"+txtLoginId.getText()+"' and password ='"+new
String(txtPassword.getPassword())+"'";
            //System.out.println(txt);
            ResultSet rs=statement.executeQuery(txt);
            if(rs.next()) {
                isValidUser = true;
            }
            rs.close();
        }
        catch(Exception ex) {
            System.out.println(ex);
        }
        if(isValidUser) {
            EdairyUI ex = new EdairyUI();
            //login code here
        }
        else {
            JOptionPane.showMessageDialog(null,"Invalid User");
        }
    }
});
btnLogin.setBounds(150, 160, 89, 23);
recommendedmedicines.getContentPane().add(btnLogin);
btnSignup = new JButton("Signup");
btnSignup.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        try {
            connectToDB();
            String txt = "insert into login (login_id,name,password)
values('"+txtLoginId.getText()+"','"+txtname.getText()+"' , '"+new
String(txtPassword.getPassword())+"'";
            //System.out.println(txt);
            ResultSet rs=statement.executeQuery(txt);
            if(rs.next()) {
                JOptionPane.showMessageDialog(null,"Sign in
successful");

                EdairyUI es = new EdairyUI();
            }
            rs.close();
        }
        catch(Exception ex) {
            System.out.println(ex);

```

```

    }
    });
    btnSignup.setBounds(150, 160, 89, 23);
    recommendedmedicines.getContentPane().add(btnSignup);
    txtPassword = new JPasswordField();
    txtPassword.setBounds(198, 85, 96, 20);
    recommendedmedicines.getContentPane().add(txtPassword);
}
}

```

## EdairyUI:

```

package Edairy;
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;
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 EdairyUI extends JFrame{
    private static final long serialVersionUID = 1L;
    private JMenuBar mnu;
    private JMenu mnuLogin;
    private JMenu mnuDetails;
    private JMenu mnuCustomer;
    private JMenu mnuCategory;
    private JMenu mnuCompany;
    private JMenu mnuOrders;
    private JMenu mnuCustomer_login;
    private JMenu mnuOrders_from;
    private JMenu mnuSelects;
    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 JMenuItem insert8,update8,delete8,view8;
    private JMenuItem insert9,update9,delete9,view9;
    private JLabel labelName;
    private static JPanel p0,p1;
}

```

## DAIRY MANAGEMNET SYSTEM

```
void initialize() {
    mnu=new JMenuBar();
    mnulogin= new JMenu("Login");
    mnuCustomer= new JMenu("Customer");
    mnuCategory= new JMenu("Category");
    mnuCompany= new JMenu("Company");
    mnuDetails= new JMenu("Details");
    mnuOrders= new JMenu("Orders");
    mnuCustomer_login = new JMenu("Customer_login");
    mnuOrders_from = new JMenu("Orders_from");
    mnuSelects = new JMenu("Selects");
    labelName=new JLabel("DAIRY MANAGEMENT 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");
    insert8=new JMenuItem("Insert");
    update8=new JMenuItem("Update");
    delete8=new JMenuItem("Delete");
    view8=new JMenuItem("View");
    insert9=new JMenuItem("Insert");
    update9=new JMenuItem("Update");
    delete9=new JMenuItem("Delete");
    view9=new JMenuItem("View");
}
void addComponentsToFrame() {
    //mnulogin.add(insert1);
    mnulogin.add(delete1);
```

## DAIRY MANAGEMNET SYSTEM

```
        mnulogin.add(update1);
        mnulogin.add(view1);
        mnuCustomer.add(insert2);
        mnuCustomer.add(delete2);
        mnuCustomer.add(update2);
        mnuCustomer.add(view2);
        mnuCategory.add(insert3);
        mnuCategory.add(delete3);
        mnuCategory.add(update3);
        mnuCategory.add(view3);
        mnuCompany.add(insert4);
        mnuCompany.add(delete4);
        mnuCompany.add(update4);
        mnuCompany.add(view4);
        mnuDetails.add(insert5);
        mnuDetails.add(delete5);
        mnuDetails.add(update5);
        mnuDetails.add(view5);
        mnuOrders.add(insert6);
        mnuOrders.add(delete6);
        mnuOrders.add(update6);
        mnuOrders.add(view6);
        mnuOrders_from.add(insert7);
        mnuOrders_from.add(delete7);
        mnuOrders_from.add(update7);
        mnuOrders_from.add(view7);
        mnuSelects.add(insert8);
        mnuSelects.add(delete8);
        mnuSelects.add(update8);
        mnuSelects.add(view8);
        mnuCustomer_login.add(insert9);
        mnuCustomer_login.add(delete9);
        mnuCustomer_login.add(update9);
        mnuCustomer_login.add(view9);
        mnu.add(mnulogin);
        mnu.add(mnuCustomer);
        mnu.add(mnuCategory);
        mnu.add(mnuCompany);
        mnu.add(mnuDetails);
        mnu.add(mnuOrders);
        mnu.add(mnuOrders_from);
        mnu.add(mnuSelects);
        mnu.add(mnuCustomer_login);
        setJMenuBar(mnu);
        p1.add(labelName);p1.setAlignmentY(CENTER_ALIGNMENT);
        p1.setBounds(500,500,800,100);
        p0.add(p1);
        add(p0);
    }
    void closeWindow(){
        try {
            int a=JOptionPane.showConfirmDialog(this,"Are you sure want to Quit Dairy
Management System:");
            if(a==JOptionPane.YES_OPTION){
```

## DAIRY MANAGEMNET SYSTEM

```
        JOptionPane.showMessageDialog(this,
            "Thank you!\nExiting Dairy Management 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,EdairyUI.this,insert1,delete1,update1,view1);
    log.buildGUI();
    Customer Cust=new Customer(p0,EdairyUI.this,insert2,delete2,update2,view2);
    Cust.buildGUI();
    Details det=new Details(p0,EdairyUI.this,insert5,delete5,update5,view5);
    det.buildGUI();
    Category cat=new Category(p0,EdairyUI.this,insert3,delete3,update3,view3);
    cat.buildGUI();
    Company cmp=new Company(p0,EdairyUI.this,insert4,delete4,update4,view4);
    cmp.buildGUI();
    Orders ord=new Orders(p0,EdairyUI.this,insert6,delete6,update6,view6);
    ord.buildGUI();
    Orders_from of = new
Orders_from(p0,EdairyUI.this,insert7,delete7,update7,view7);
    of.buildGUI();
    Selects se = new Selects(p0,EdairyUI.this,insert8,delete8,update8,view8);
    se.buildGUI();
    Customer_login cl = new
Customer_login(p0,EdairyUI.this,insert9,delete9,update9,view9);
    cl.buildGUI();
    addWindowListener(new WindowAdapter(){
        public void windowClosing(WindowEvent we)
        {
            closeWindow();
        }
    });
}

public EdairyUI() {
    initialize();
    addComponentsToFrame();
    register();
    pack();
    setTitle("Dairy Management System");
    setSize(600,600);
    setVisible(true);
}

}
```

## Login:

```

package Edairy;
import java.awt.BorderLayout;
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 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.JPasswordField;
import javax.swing.JScrollPane;
import javax.swing.JTable;
import javax.swing.JTextArea;
import javax.swing.JTextField;
import javax.swing.table.DefaultTableModel;

public class login {
    private static final long serialVersionUID = 1L;
    private JButton loginButton,deleteButton,viewButton,updateButton;
    private JPanel p1,p2,p3,p;
    private JLabel lbllog_id,lblName,lblpwd;
    private JTextField txtlog_id,txtName,txtpwd;
    private List loginIDList;
    Connection con;ResultSet rs;
    Statement statement;
    private JFrame frame;
    private JMenuItem insert,delete,update,view;
    public login(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;
        lbllog_id=new JLabel("Login_ID");
        lblName=new JLabel("Name");
        lblpwd=new JLabel("Password");
        txtlog_id=new JTextField(15);
        txtName=new JTextField(15);
        txtpwd=new JPasswordField(8);
        this.p=p;
    }
    public void connectToDB()
    {
        try {
            Connection con=DriverManager.getConnection(
                "jdbc:oracle:thin:@localhost:1521:xe","joshua","vasavi");
            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 loadLogins() {
        try {
            loginIDList.removeAll();
            rs=statement.executeQuery("select login_id from login");
            while(rs.next()) {
                loginIDList.add(rs.getString("login_ID"));
            }
        }
        catch(SQLException e) {
            displaySQLErrors(e);
        }
    }
    public void buildGUI() {
        loginButton=new JButton("Submit");
        insert.addActionListener(new ActionListener() {
            @Override
            public void actionPerformed(ActionEvent arg0) {
                // TODO Auto-generated method stub
                txtlog_id.setText(null);
                txtName.setText(null);
                txtpwd.setText(null);
                p.removeAll();
            }
        });
    }

```



```

        frame.invalidate();
        frame.validate();
        frame.repaint();
        p1=new JPanel();
        p1.setLayout(new GridLayout(3,2));
        p1.add(lbllog_id);
        p1.add(txtlog_id);
        p1.add(lblName);
        p1.add(txtName);
        p1.add(lblpwd);
        p1.add(txtpwd);
        p3=new JPanel(new FlowLayout());
        p3.add(loginButton);
        p3.setBounds(200,250,75,35);
        p1.setBounds(115,80,300,150);
        p2 = new JPanel(new FlowLayout());
        loginIDList=new List(10);
        loadLogins();
        p2.add(loginIDList);
        p2.setBounds(100,320,300,180);
        p. add(p1);
        p.add(p3);
        p. add(p2);
        p.setLayout(new BorderLayout());
        frame.add(p);
        frame.setSize(600,600);
        frame.validate();
        loginButton.addActionListener(new ActionListener() {
            @Override
            public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub

                try {
                    String query="INSERT INTO login
VALUES("+txtlog_id.getText()+",''+txtName.getText()+',''+txtpwd.getText()+''");

                    int i=statement.executeUpdate(query);
                    JOptionPane.showMessageDialog(p,"\ninserted "+i+" rows
succesfully");

                    loadLogins();
                    System.out.println("done");
                }
                catch(SQLException insertException){
                    displaySQLErrors(insertException);
                }
            }
        });

        delete.addActionListener(new ActionListener() {
            @Override
            public void actionPerformed(ActionEvent arg0) {
                // TODO Auto-generated method stub
                deleteButton=new JButton("Delete");
                txtlog_id.setText(null);

```

```

txtName.setText(null);
txtpwd.setText(null);
p.removeAll();
frame.invalidate();
frame.validate();
frame.repaint();
p1=new JPanel();
p1.setLayout(new GridLayout(3,2));
p1.add(lbllog_id);
p1.add(txtlog_id);
p1.add(lblName);
p1.add(txtName);
p1.add(lblpwd);
p1.add(txtpwd);
p3=new JPanel(new FlowLayout());
p3.add(deleteButton);
p3.setBounds(200,250,75,35);
p1.setBounds(115,80,300,150);
p2 = new JPanel(new FlowLayout());
    loginIDList=new List(10);
    loadLogins();
    p2.add(loginIDList);
    p2.setBounds(100,320,300,180);
p. add(p1);
p.add(p3);
p. add(p2);
p.setLayout(new BorderLayout());
    frame.add(p);
    frame.setSize(600,600);
    frame.validate();
loginIDList.addItemListener(new ItemListener()
{
    public void itemStateChanged(ItemEvent e)
    {
        try
        {
            rs=statement.executeQuery("select * from
login");

            while (rs.next())
            {
                if
(rs.getString("login_id").equals(loginIDList.getSelectedItem()))
                    break;
            }
            if (!rs.isAfterLast())
            {

                txtlog_id.setText(rs.getString("login_id"));

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

                txtpwd.setText(rs.getString("password"));
            }
        }
    }
}

```

```

                catch (SQLException selectException)
                {
                    displaySQLErrors(selectException);
                }
            });
deleteButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        try {
            String password=JOptionPane.showInputDialog(p,"Enter the
password");

            txtpwd.setText(password);
            int a=JOptionPane.showConfirmDialog(p,"Are you sure want to
delete:");

            if(a==JOptionPane.YES_OPTION){
                String query="DELETE FROM LOGIN WHERE
LOGIN_ID="+txtlog_id.getText()+"AND PASSWORD='"+txtpwd.getText()+"'";
                int i=statement.executeUpdate(query);
                JOptionPane.showMessageDialog(p,"\nDeleted "+i+" rows
succesfully");

                loadLogins();
            }
        } catch(SQLException deleteException){
            displaySQLErrors(deleteException);
        }
    }
});

update.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent arg0) {
        // TODO Auto-generated method stub
        updateButton = new JButton("Modify");
        txtlog_id.setText(null);
        txtName.setText(null);
        txtpwd.setText(null);
        p.removeAll();
        frame.invalidate();
        frame.validate();
        frame.repaint();
        p1=new JPanel();
        p1.setLayout(new GridLayout(3,2));
        p1.add(lbllog_id);
        p1.add(txtlog_id);
        p1.add(lblName);
        p1.add(txtName);
        p1.add(lblpwd);
        p1.add(txtpwd);
        p3=new JPanel(new FlowLayout());
        p3.add(updateButton);
    }
});

```

```

p3.setBounds(200,250,75,35);
p1.setBounds(115,80,300,150);
p2 = new JPanel(new FlowLayout());
    loginIDList=new List(10);
    loadLogins();
    p2.add(loginIDList);
    p2.setBounds(100,320,300,180);
p. add(p1);
p.add(p3);
p. add(p2);
p.setLayout(new BorderLayout());
    frame.add(p);
    frame.setSize(600,600);
    frame.validate();
loginIDList.addItemListener(new ItemListener()
{
    public void itemStateChanged(ItemEvent e)
    {
        try
        {
            rs=statement.executeQuery("select * from
login");

            while (rs.next())
            {
                if
(rs.getString("login_id").equals(loginIDList.getSelectedItem()))
                break;
            }
            if (!rs.isAfterLast())
            {

                txtlog_id.setText(rs.getString("login_id"));

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

                txtpwd.setText(rs.getString("password"));

            }
        }
        catch (SQLException selectException)
        {
            displaySQLErrors(selectException);
        }
    }
});
updateButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        try {
            loadLogins();
            String password=JOptionPane.showInputDialog(p,"Enter the new
password");

            txtpwd.setText(password);

```

## DAIRY MANAGEMNET SYSTEM

```

        String query=" update login set password='"+password+"'
where login_id="+txtlog_id.getText();
        int i=statement.executeUpdate(query);
        JOptionPane.showMessageDialog(p,"\nUpdated "+i+" rows
succesfully");

        loadLogins();
    }
    catch(SQLException updateException){
        displaySQLErrors(updateException);
    }
}
});

}
});
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("View logins");
        Font myFont = new Font("Serif",Font.BOLD,50);
        view1.setFont(myFont);
        viewButton=new JButton("View");
        p1=new JPanel();
        p1.add(view1);
        p2=new JPanel(new FlowLayout());
        p2.add(viewButton);
        p2.setBounds(220,220,75,35);
        p1.setBounds(130,20,300,100);
        p.add(p1);
        p.add(p2);
        p.setLayout(new BorderLayout());
        frame.add(p);
        frame.setSize(600,600);
        frame.validate();
        viewButton.addActionListener(new ActionListener() {
            @Override
            public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                JFrame f;
                JTable j;
                f = new JFrame();
                f.setTitle("login details");
                DefaultTableModel model = new
DefaultTableModel();

                j = new JTable(model);
                model.addColumn("login_id");
                model.addColumn("Name");
                model.addColumn("password");
                try {

```

## DAIRY MANAGEMNET SYSTEM

```
rs=statement.executeQuery("select
* from login");

Object[] {rs.getString("login_id"), rs.getString("Name"), rs.getString("password")});

while(rs.next()) {
    model.addRow(new
    }
}

catch(SQLException viewException) {
    displaySQLErrors(viewException);
}

j.setEnabled(false);
j.setBounds(30, 40, 150, 150);
JScrollPane sp = new JScrollPane(j);
f.add(sp);
f.setSize(400, 400);

f.setVisible(true);

}

});

}

}

}
```

## Customer:

```
package Edairy;

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.*;
```

## DAIRY MANAGEMNET SYSTEM

```
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.JPasswordField;

import javax.swing.JScrollPane;

import javax.swing.JTable;

import javax.swing.JTextArea;

import javax.swing.JTextField;

import javax.swing.table.DefaultTableModel;

public class Customer {

    private static final long serialVersionUID = 1L;

    private JButton insertButton,deleteButton,updateButton,viewButton;

    private JPanel p1,p2,p3,p;

    private JLabel lblcustomer_id,lblcustomer_name,lblpno,lbemail,lbladd;

    private JTextField txtcustomer_id,txtcustomer_name,txtpno,txtemail;

    private JTextArea txtadd;

    private List customerIDList;

    Connection con;ResultSet rs;

    Statement statement;

    private JFrame frame;

    private JMenuItem insert,delete,update,view;

    public Customer(JPanel p,JFrame frame,JMenuItem insert,JMenuItem delete,JMenuItem

update,JMenuItem view)

    {
```

## DAIRY MANAGEMNET SYSTEM

```
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;

//lbllog_id=new JLabel("Login_id");

lblcustomer_id=new JLabel("customer_id");

lblcustomer_name=new JLabel("customer_name");

lblpno=new JLabel("phone_no");

lblemail=new JLabel("email");

lbladd=new JLabel("address");

//txtlog_id = new JTextField(15);

txtcustomer_id=new JTextField(15);

txtcustomer_name=new JTextField(15);

txtpno=new JTextField(15);

txtemail=new JTextField(30);

txtadd=new JTextArea(15,15);
```



## DAIRY MANAGEMNET SYSTEM

```
        this.p=p;
    }
    public void connectToDB()
    {
        try {
            Connection con=DriverManager.getConnection(
                "jdbc:oracle:thin:@localhost:1521:xe","joshua","vasavi");
            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 loadcustomerIDs() {
        try {
            customerIDList.removeAll();
            rs=statement.executeQuery("select customer_id from Customer");
            while(rs.next()) {
```

## DAIRY MANAGEMNET SYSTEM

```
        customerIDList.add(rs.getString("customer_id"));
    }
}
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("Submit");
            txtcustomer_id.setText(null);
            txtcustomer_name.setText(null);
            txtpno.setText(null);
            txtemail.setText(null);
            txtadd.setText(null);
            //txtlog_id.setText(null);
            p.removeAll();
            frame.invalidate();
            frame.validate();
            frame.repaint();
            //loadlogin();
            p1=new JPanel();
            p1.setLayout(new GridLayout(5,2));
            p1.add(lblcustomer_id);
            p1.add(txtcustomer_id);
```

## DAIRY MANAGEMNET SYSTEM

```
p1.add(lblcustomer_name);
p1.add(txtcustomer_name);
p1.add(lblpno);
p1.add(txtpno);
p1.add(lblemail);
p1.add(txtemail);
p1.add(lbladd);
p1.add(txtadd);
//p1.setBackground(Color.pink) ;
p3=new JPanel(new FlowLayout());
p3.add(insertButton);
//p1.add(txtf1);
//p3.setBackground(Color.yellow);
p3.setBounds(160,450,75,35);
p1.setBounds(50,50,350,320);
p2 = new JPanel(new FlowLayout());
customerIDList=new List(10);
loadcustomerIDs();
p2.add(customerIDList);//p2.setBackground(Color.cyan) ;
p2.setBounds(330,150,350,180);
p. add(p1);
p.add(p3);
p. add(p2);
p.setLayout(new BorderLayout());
    frame.add(p);
    frame.setSize(600,600);
    frame.validate();
```

```
insertButton.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        try {

            String query="INSERT INTO Customer
VALUES('"+txtcustomer_id.getText()+"','"+txtcustomer_name.getText()+"','"+txtpno.getText()+"','"+txtemail.getTe
xt()+"','"+txtadd.getText()+"')";

            int i=statement.executeUpdate(query);

            JOptionPane.showMessageDialog(p,"\ninserted "+i+" rows succesfully")

            loadcustomerIDs();

            //loadlogin();

        }

        catch(SQLException insertException){

            displaySQLErrors(insertException);

        }

    }

});

delete.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent arg0) {

        // TODO Auto-generated method stub

        deleteButton=new JButton("Delete");

        txtcustomer_id.setText(null);

        txtcustomer_name.setText(null);

        txtpno.setText(null);

        txtemail.setText(null);

    }

});
```

```
txtadd.setText(null);  
//txtlog_id.setText(null);  
p.removeAll();  
frame.invalidate();  
frame.validate();  
frame.repaint();  
p1=new JPanel();  
p1.setLayout(new GridLayout(5,2));  
p1.add(lblcustomer_id);  
p1.add(txtcustomer_id);  
p1.add(lblcustomer_name);  
p1.add(txtcustomer_name);  
p1.add(lblpno);  
p1.add(txtpno);  
p1.add(lblemail);  
p1.add(txtemail);  
p1.add(lbladd);  
p1.add(txtadd);  
//p1.setBackground(Color.pink);  
p3=new JPanel(new FlowLayout());  
p3.add(deleteButton);  
//p1.add(txtf1);  
//p3.setBackground(Color.yellow);  
p3.setBounds(160,450,75,35);  
p1.setBounds(50,50,350,320);  
p2 = new JPanel(new FlowLayout());  
customerIDList=new List(10);  
loadcustomerIDs();
```

## DAIRY MANAGEMNET SYSTEM

```
p2.add(customerIDList);//p2.setBackground(Color.cyan) ;
p2.setBounds(330,150,350,180);
p. add(p1);
p.add(p3);
p. add(p2);
p.setLayout(new BorderLayout());
    frame.add(p);
    frame.setSize(600,600);
    frame.validate();
customerIDList.addItemListener(new ItemListener()
{
    public void itemStateChanged(ItemEvent e)
    {
        try
        {
            rs=statement.executeQuery("select * from
Customer");
            while (rs.next())
            {
                if
(rs.getString("customer_id").equals(customerIDList.getSelectedItem()))
                break;
            }
            if (!rs.isAfterLast())
            {
                //txtlog_id.setText(rs.getString("Login_id"));

                txtcustomer_id.setText(rs.getString("customer_id"));
```

```
txtcustomer_name.setText(rs.getString("customer_name"));

txtpno.setText(rs.getString("phone_no"));
txtemail.setText(rs.getString("email"));
txtadd.setText(rs.getString("address"));

    }

}

catch (SQLException selectException)

{

    displaySQLErrors(selectException);

}

}

});

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){

        String query="DELETE FROM customer WHERE

customer_id="+customerIDList.getSelectedItem();

        int i=statement.executeUpdate(query);

        JOptionPane.showMessageDialog(p,"\nDeleted "+i+" rows

succesfully");loadcustomerIDs();

    }

}

catch(SQLException deleteException){

    displaySQLErrors(deleteException);

}

}
```

```
        }  
    }  
    });  
}  
});  
update.addActionListener(new ActionListener() {  
    @Override  
    public void actionPerformed(ActionEvent arg0) {  
        // TODO Auto-generated method stub  
        updateButton = new JButton("Modify");  
        txtcustomer_id.setText(null);  
        txtcustomer_name.setText(null);  
        txtpno.setText(null);  
        txtemail.setText(null);  
        txtadd.setText(null);  
        p.removeAll();  
        frame.invalidate();  
        frame.validate();  
        frame.repaint();  
        p1=new JPanel();  
        p1.setLayout(new GridLayout(5,2));  
        p1.add(lblcustomer_id);  
        p1.add(txtcustomer_id);  
        p1.add(lblcustomer_name);  
        p1.add(txtcustomer_name);  
        p1.add(lblpno);  
        p1.add(txtpno);  
        p1.add(lblemail);
```



## DAIRY MANAGEMNET SYSTEM

```
p1.add(txtemail);
p1.add(lbladd);
p1.add(txtadd);
//p1.setBackground(Color.pink) ;
p3=new JPanel(new FlowLayout());
p3.add(updateButton);
//p1.add(txtf1);
//p3.setBackground(Color.yellow);
p3.setBounds(160,450,75,35);
p1.setBounds(50,50,350,320);
p2 = new JPanel(new FlowLayout());
customerIDList=new List(10);
loadcustomerIDs();
p2.add(customerIDList);//p2.setBackground(Color.cyan) ;
p2.setBounds(330,150,350,180);
p. add(p1);
p.add(p3);
p. add(p2);
p.setLayout(new BorderLayout());
    frame.add(p);
    frame.setSize(600,600);
    frame.validate();
customerIDList.addItemListener(new ItemListener()
{
    public void itemStateChanged(ItemEvent e)
    {
        try
        {
```

## DAIRY MANAGEMNET SYSTEM

```
Customer");

rs=statement.executeQuery("select * from

while (rs.next())
{
    if
(rs.getString("customer_id").equals(customerIDList.getSelectedItem()))
        break;
}
if (!rs.isAfterLast())
{

//txtlog_id.setText(rs.getString("Login_id"));

txtcustomer_id.setText(rs.getString("customer_id"));

txtcustomer_name.setText(rs.getString("customer_name"));

        txtpno.setText(rs.getString("phone_no"));
        txtemail.setText(rs.getString("email"));
        txtadd.setText(rs.getString("address"));
    }
}
catch (SQLException selectException)
{
    displaySQLErrors(selectException);
}
});

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){

        String query="update Customer set
customer_name='"+txtcustomer_name.getText()+"',phone_no='"+txtpno.getText()+"',email='"+txtemail.getText()+"
',address='"+txtadd.getText()+"' WHERE customer_id="+customerIDList.getSelectedItemId();

        int i=statement.executeUpdate(query);

        JOptionPane.showMessageDialog(p,"\nupdated
"+i+" rows succesfully");loadcustomerIDs();

    }

}

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("CustomerAccount view");

        //view1.setAlignment(Label.CENTER);

```

## DAIRY MANAGEMNET SYSTEM

```
Font myFont = new Font("Serif",Font.BOLD,28);
view1.setFont((myFont));
viewButton=new JButton("View");
p1=new JPanel();
p1.add(view1);
p2=new JPanel(new FlowLayout());
p2.add(viewButton);
p2.setBounds(220,220,75,35);
p1.setBounds(130,20,300,100);
p.add(p1);
p.add(p2);
p.setLayout(new BorderLayout());
frame.add(p);

frame.setSize(600,600);
frame.validate();
viewButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        JFrame f;
        JTable j;
        f = new JFrame();
        f.setTitle("login_User details");
        DefaultTableModel model = new DefaultTableModel();
        j = new JTable(model);
        model.addColumn("customer_id");
        model.addColumn("customer_name");
        model.addColumn("phone_no");
```

## DAIRY MANAGEMNET SYSTEM

```
model.addColumn("E-Mail");
model.addColumn("Address");
try {
    rs=statement.executeQuery("select *
from Customer");

    while(rs.next()) {
        model.addRow(new
Object[]{rs.getString("customer_id"),
rs.getString("customer_name"),rs.getString("phone_no"),rs.getString("email"),rs.getString("address"),});
    }
}
catch(SQLException viewException) {
    displaySQLErrors(viewException);
}

j.setEnabled(false);
j.setBounds(30, 40, 300, 300);
JScrollPane sp = new JScrollPane(j);
f.add(sp);
f.setSize(800, 400);
f.setVisible(true);
}

});

}

}
```

Category:

package Edairy;

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## DAIRY MANAGEMNET SYSTEM

```
import java.awt.BorderLayout;
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 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 Category{
    private static final long serialVersionUID = 1L;
    private JButton insertButton,deleteButton,updateButton,viewButton;
    private JPanel p1,p2,p3,p;
    private JLabel lblcategory_id,lblcategory_name,lblprice,lblavailability,lblcode;
```

## DAIRY MANAGEMNET SYSTEM

```
private JTextField txtcategory_id,txtcategory_name,txtprice,txtavailability,txtcode;

private List category_idList;

Connection con;ResultSet rs;

Statement statement;

private JFrame frame;

private JMenuItem insert,delete,update,view;

public Category(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;

    lblcategory_id=new JLabel("Category ID");
    lblcategory_name=new JLabel("Category Name");
    lblprice=new JLabel("Price");
    lblavailability=new JLabel("Availability");
```

## DAIRY MANAGEMNET SYSTEM

```
        lblcode = new JLabel("Code");
        txtcategory_id=new JTextField(15);
        txtcategory_name=new JTextField(15);
        txtprice=new JTextField(8);
        txtavailability=new JTextField(15);
        txtcode = new JTextField(15);
        this.p=p;
    }

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



## DAIRY MANAGEMNET SYSTEM

```
}

public void loadcategoryIDs() {
    try {
        category_idList.removeAll();
        rs=statement.executeQuery("select category_id from Category");
        while(rs.next()) {
            category_idList.add(rs.getString("category_id"));
        }
    }
    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("Submit");
            txtcategory_id.setText(null);
            txtcategory_name.setText(null);
            txtprice.setText(null);
            txtavailability.setText(null);
            txtcode.setText(null);
            p.removeAll();
            frame.invalidate();
            frame.validate();
        }
    });
}
```

```
frame.repaint();

p1=new JPanel();

p1.setLayout(new GridLayout(5,2));

p1.add(lblcategory_id);

p1.add(txtcategory_id);

p1.add(lblcategory_name);

p1.add(txtcategory_name);

p1.add(lblprice);

p1.add(txtprice);

p1.add(lblavailability);

p1.add(txtavailability);

p1.add(lblcode);

p1.add(txtcode);

p3=new JPanel(new FlowLayout());

p3.add(insertButton);

//p1.add(txtf1);

//p3.setBackground(Color.yellow);

p1.setBounds(100,80,300,250);p3.setBounds(200,400,75,35);

//p1.setBackground(Color.pink) ;

p2 = new JPanel(new FlowLayout());

    category_idList=new List(10);

    loadcategoryIDs();

    p2.add(category_idList);//p2.setBackground(Color.cyan) ;

    p2.setBounds(320,150,350,180);

p. add(p1);p.add(p3);

p. add(p2);

p.setLayout(new BorderLayout());

    frame.add(p);
```

```
        frame.setSize(600,600);

        frame.validate();

        insertButton.addActionListener(new ActionListener() {

            @Override

            public void actionPerformed(ActionEvent e) {

                // TODO Auto-generated method stub

                try {

                    String query="INSERT INTO Category

VALUES('"+txtcategory_id.getText()+"','"+txtcategory_name.getText()+"','"+txtprice.getText()+"','"+txtcode.getTex

t()+"','"+txtavailability.getText()+"')";

                    int i=statement.executeUpdate(query);

                    JOptionPane.showMessageDialog(p,"\ninserted "+i+" rows

succesfully");loadcategoryIDs();

                }

                catch(SQLException insertException){

                    displaySQLErrors(insertException);

                }

            }

        });

        delete.addActionListener(new ActionListener() {

            @Override

            public void actionPerformed(ActionEvent arg0) {

                // TODO Auto-generated method stub

                deleteButton=new JButton("Delete");

                txtcategory_id.setText(null);

                txtcategory_name.setText(null);

                txtprice.setText(null);

                txtavailability.setText(null);
```

```
txtcode.setText(null);
p.removeAll();
frame.invalidate();
frame.validate();
frame.repaint();
p1=new JPanel();
p1.setLayout(new GridLayout(5,2));
p1.add(lblcategory_id);
p1.add(txtcategory_id);
p1.add(lblcategory_name);
p1.add(txtcategory_name);
p1.add(lblprice);
p1.add(txtprice);
p1.add(lblavailability);
p1.add(txtavailability);
p1.add(lblcode);
p1.add(txtcode);
p3=new JPanel(new FlowLayout());
p3.add(deleteButton);
//p1.add(txtf1);
//p3.setBackground(Color.yellow);
p1.setBounds(100,80,300,250);p3.setBounds(200,400,75,35);
//p1.setBackground(Color.pink) ;
p2 = new JPanel(new FlowLayout());
    category_idList=new List(10);
    loadcategoryIDs();
    p2.add(category_idList);//p2.setBackground(Color.cyan) ;
    p2.setBounds(320,150,350,180);
```

## DAIRY MANAGEMNET SYSTEM

```
p.add(p1);p.add(p3);
p.add(p2);
p.setLayout(new BorderLayout());
    frame.add(p);
    frame.setSize(600,600);
    frame.validate();
category_idList.addItemListener(new ItemListener()
{
    public void itemStateChanged(ItemEvent e)
    {
        try
        {
            rs=statement.executeQuery("select * from
Category");

            while (rs.next())
            {
                if
(rs.getString("category_id").equals(category_idList.getSelectedItem()))
                break;
            }
            if (!rs.isAfterLast())
            {

                txtcategory_id.setText(rs.getString("category_id"));

                txtcategory_name.setText(rs.getString("category_name"));

                txtprice.setText(rs.getString("price"));
                txtcode.setText(rs.getString("code"));

                txtavailability.setText(rs.getString("Availability"));
```

```

        }
    }
    catch (SQLException selectException)
    {
        displaySQLErrors(selectException);
    }
}

});

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){

                String query="DELETE FROM Category WHERE
category_id="+category_idList.getSelectedItemId();

                int i=statement.executeUpdate(query);

                JOptionPane.showMessageDialog(p,"\nDeleted "+i+" rows
succesfully");loadcategoryIDs();

            }

        }

        catch(SQLException deleteException){

            displaySQLErrors(deleteException);

        }

    }

});

}

});

```

```
update.addActionListener(new ActionListener() {  
    @Override  
    public void actionPerformed(ActionEvent arg0) {  
        // TODO Auto-generated method stub  
        updateButton = new JButton("Modify");  
        txtcategory_id.setText(null);  
        txtcategory_name.setText(null);  
        txtprice.setText(null);  
        txtavailability.setText(null);  
        txtcode.setText(null);  
        p.removeAll();  
        frame.invalidate();  
        frame.validate();  
        frame.repaint();  
        p1=new JPanel();  
        p1.setLayout(new GridLayout(5,2));  
        p1.add(lblcategory_id);  
        p1.add(txtcategory_id);  
        p1.add(lblcategory_name);  
        p1.add(txtcategory_name);  
        p1.add(lblprice);  
        p1.add(txtprice);  
        p1.add(lblavailability);  
        p1.add(txtavailability);  
        p1.add(lblcode);  
        p1.add(txtcode);  
        p3=new JPanel(new FlowLayout());  
        p3.add(updateButton);
```

## DAIRY MANAGEMNET SYSTEM

```
//p1.add(txtf1);
//p3.setBackground(Color.yellow);
p1.setBounds(100,80,300,250);p3.setBounds(200,400,75,35);
//p1.setBackground(Color.pink) ;
p2 = new JPanel(new FlowLayout());
    category_idList=new List(10);
    loadcategoryIDs();
    p2.add(category_idList);//p2.setBackground(Color.cyan) ;
    p2.setBounds(320,150,350,180);
p. add(p1);p.add(p3);
p. add(p2);
p.setLayout(new BorderLayout());

    frame.add(p);
    frame.setSize(600,600);
    frame.validate();
category_idList.addItemListener(new ItemListener()
{
    public void itemStateChanged(ItemEvent e)
    {
        try
        {
            rs=statement.executeQuery("select * from
Category");

            while (rs.next())
            {
                if
(rs.getString("category_id").equals(category_idList.getSelectedItem()))
                break;
```



```
        }
        if (!rs.isAfterLast())
        {

            txtcategory_id.setText(rs.getString("category_id"));

            txtcategory_name.setText(rs.getString("category_name"));

            txtprice.setText(rs.getString("price"));
            txtcode.setText(rs.getString("code"));

            txtavailability.setText(rs.getString("Availability"));

        }
    }
    catch (SQLException selectException)
    {
        displaySQLErrors(selectException);
    }
}

});

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){

                String query="update Category set
category_name='"+txtcategory_name.getText()+"',price='"+txtprice.getText()+"',code='"+txtcode.getText()+"',Avai
lability='"+txtavailability.getText()+"' WHERE category_id='"+category_idList.getSelectedIndex();
```

```
int i=statement.executeUpdate(query);
OptionPane.showMessageDialog(p,"\nupdated
"+i+" rows succesfully");loadcategoryIDs();
    }
}
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("Category view");
        //view1.setAlignment(Label.CENTER);
        Font myFont = new Font("Serif",Font.BOLD,40);
        view1.setFont((myFont));
        viewButton=new JButton("View");
        p1=new JPanel();
        p1.add(view1);
```

## DAIRY MANAGEMNET SYSTEM

```
p2=new JPanel(new FlowLayout());

p2.add(viewButton);

p2.setBounds(220,220,75,35);

p1.setBounds(130,20,300,100);

p.add(p1);

p.add(p2);

p.setLayout(new BorderLayout());

frame.add(p);

frame.setSize(600,600);

frame.validate();

viewButton.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        JFrame f;

        JTable j;

        f = new JFrame();

        f.setTitle("Category details");

        DefaultTableModel model = new DefaultTableModel();

        j = new JTable(model);

        model.addColumn("Category id");

        model.addColumn("Category Name");

        model.addColumn("Price");

        model.addColumn("code");

        model.addColumn("availability");

        try {

            rs=statement.executeQuery("select *

from Category");
```

## DAIRY MANAGEMNET SYSTEM

```
                                while(rs.next()) {
                                    model.addRow(new Object[]{
rs.getString("category_id"),
rs.getString("category_name"),rs.getString("price"),rs.getString("code"),rs.getString("Availability")});
                                }
                                }

                                catch(SQLException viewException) {
                                    displaySQLErrors(viewException);
                                }

                                j.setEnabled(false);

                                j.setBounds(30, 40, 300, 300);

                                JScrollPane sp = new JScrollPane(j);

                                f.add(sp);

                                f.setSize(800, 400);

                                f.setVisible(true);

                                }

                                });

                                }

                                };
```

## Company:

```
package Edairy;

import java.awt.BorderLayout;

import java.awt.Color;

import java.awt.FlowLayout;

import java.awt.Font;

import java.awt.GridLayout;

import java.awt.Label;
```

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## DAIRY MANAGEMNET SYSTEM

```
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 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 Company{
    private static final long serialVersionUID = 1L;
    private JButton insertButton,deleteButton,updateButton,viewButton;
    private JPanel p1,p2,p3,p;
    private JLabel lblcompany_id,lblcompany_name;
    private JTextField txtcompany_id,txtcompany_name;
    private List CompanyIDList;
    Connection con;ResultSet rs;
    Statement statement;
    private JFrame frame;
    private JMenuitem insert,delete,update,view;
```

## DAIRY MANAGEMNET SYSTEM

```
public Company(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;
    lblcompany_id=new JLabel("Company ID");
    lblcompany_name=new JLabel("company_name");
    txtcompany_id=new JTextField(15);
    txtcompany_name=new JTextField(15);
    this.p=p;
}

public void connectToDB()
{

    try {
        Connection con=DriverManager.getConnection(
```

## DAIRY MANAGEMNET SYSTEM

```
"jdbc:oracle:thin:@localhost:1521:xe","joshua","vasavi");
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 loadCompanyIDs() {
    try {
        CompanyIDList.removeAll();
        rs=statement.executeQuery("select company_id from company");
        while(rs.next()) {
            CompanyIDList.add(rs.getString("company_id"));
        }
    }
    catch(SQLException e) {
        displaySQLErrors(e);
    }
}
```

## DAIRY MANAGEMNET SYSTEM

```
public void buildGUI() {  
    insert.addActionListener(new ActionListener() {  
        @Override  
        public void actionPerformed(ActionEvent arg0) {  
            // TODO Auto-generated method stub  
            insertButton=new JButton("Submit");  
            txtcompany_id.setText(null);  
            txtcompany_name.setText(null);  
            p.removeAll();  
            frame.invalidate();  
            frame.validate();  
            frame.repaint();  
            p1=new JPanel();  
            p1.setLayout(new GridLayout(2,2));  
            p1.add(lblcompany_id);  
            p1.add(txtcompany_id);  
            p1.add(lblcompany_name);  
            p1.add(txtcompany_name);  
            p3=new JPanel(new FlowLayout());  
            p3.add(insertButton);  
            p3.setBounds(200,220,75,35); p1.setBounds(100,80,300,100);  
            p2 = new JPanel(new FlowLayout());  
            CompanyIDList=new List(10);  
            loadCompanyIDs();  
            p2.add(CompanyIDList);//p2.setBackground(Color.cyan) ;  
  
            p2.setBounds(70,320,350,180);  
            p. add(p1);p.add(p3);  
            p. add(p2);  
        }  
    }  
}
```



```
p.setLayout(new BorderLayout());

frame.add(p);

frame.setSize(600,600);

frame.validate();

insertButton.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

try {

        String query="INSERT INTO company

VALUES("+txtcompany_id.getText()+","+txtcompany_name.getText()+")";

        int i=statement.executeUpdate(query);

        JOptionPane.showMessageDialog(p,"ninserted "+i+" rows succesfully");

        loadCompanyIDs();

    }

    catch(SQLException insertException){

        displaySQLErrors(insertException);

    }

}

});

delete.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent arg0) {

        // TODO Auto-generated method stub

        deleteButton=new JButton("Delete");

        txtcompany_id.setText(null);

        txtcompany_name.setText(null);
```

## DAIRY MANAGEMNET SYSTEM

```
p.removeAll();
frame.invalidate();
frame.validate();
frame.repaint();
p1=new JPanel();
p1.setLayout(new GridLayout(2,2));
p1.add(lblcompany_id);
p1.add(txtcompany_id);
p1.add(lblcompany_name);
p1.add(txtcompany_name);
p3=new JPanel(new FlowLayout());
p3.add(deleteButton);
p3.setBounds(200,220,75,35); p1.setBounds(100,80,300,100);
p2 = new JPanel(new FlowLayout());
CompanyIDList=new List(10);
loadCompanyIDs();
p2.add(CompanyIDList);
    p2.setBounds(70,320,350,180);
p. add(p1);p.add(p3);
p. add(p2);
p.setLayout(new BorderLayout());
    frame.add(p);
    frame.setSize(600,600);
    frame.validate();
CompanyIDList.addItemListener(new ItemListener()
{
    public void itemStateChanged(ItemEvent e)
    {
```

## DAIRY MANAGEMNET SYSTEM

```
        try
        {
            rs=statement.executeQuery("select * from
company");

            while (rs.next())
            {
                if
(rs.getString("company_id").equals(CompanyIDList.getSelectedItem()))
                break;
            }
            if (!rs.isAfterLast())
            {

txtcompany_id.setText(rs.getString("company_id"));

txtcompany_name.setText(rs.getString("company_name"));
            }
        }
        catch (SQLException selectException)
        {
            displaySQLErrors(selectException);
        }
    }

});

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:");
```

## DAIRY MANAGEMNET SYSTEM

```
        if(a==JOptionPane.YES_OPTION){
            String query="DELETE FROM company WHERE
company_id="+CompanyIDList.getSelectedItem();

            int i=statement.executeUpdate(query);

            JOptionPane.showMessageDialog(p,"\nDeleted "+i+" rows
succesfully");loadCompanyIDs();

        }
    }
    catch(SQLException deleteException){
        displaySQLErrors(deleteException);
    }
}

});

}

});

update.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent arg0) {

        // TODO Auto-generated method stub

        updateButton = new JButton("Modify");

        txtcompany_id.setText(null);

        txtcompany_name.setText(null);

        p.removeAll();

        frame.invalidate();

        frame.validate();

        frame.repaint();

        p1=new JPanel();

        p1.setLayout(new GridLayout(2,2));

        p1.add(lblcompany_id);
```

## DAIRY MANAGEMNET SYSTEM

```
p1.add(txtcompany_id);
p1.add(lblcompany_name);
p1.add(txtcompany_name);
p3=new JPanel(new FlowLayout());
p3.add(updateButton);
p3.setBounds(200,220,75,35); p1.setBounds(100,80,300,100);
p2 = new JPanel(new FlowLayout());
CompanyIDList=new List(10);
loadCompanyIDs();
p2.add(CompanyIDList);
    p2.setBounds(70,320,350,180);
p. add(p1);p.add(p3);
p. add(p2);
p.setLayout(new BorderLayout());
    frame.add(p);
    frame.setSize(600,600);
    frame.validate();
CompanyIDList.addItemListener(new ItemListener()
{
    public void itemStateChanged(ItemEvent e)
    {
        try
        {
            rs=statement.executeQuery("select * from
company");
            while (rs.next())
            {
                if
(rs.getString("company_id").equals(CompanyIDList.getSelectedItem()))
```

```

                                break;
                                }
                                if (!rs.isAfterLast())
                                {

txtcompany_id.setText(rs.getString("company_id"));

txtcompany_name.setText(rs.getString("company_name"));

                                }
                                }
                                catch (SQLException selectException)
                                {

                                displaySQLErrors(selectException);

                                }

                                }

                                });

                                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){

                                String query="update company set
company_name='"+txtcompany_name.getText()+"' WHERE company_id='"+CompanyIDList.getSelectedItem();

                                int i=statement.executeUpdate(query);

                                JOptionPane.showMessageDialog(p,"\nupdated
"+i+" rows succesfully");loadCompanyIDs();

                                }

```

```
        }
        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("Company view");

        Font myFont = new Font("Serif",Font.BOLD,40);

        view1.setFont((myFont));

        viewButton=new JButton("View");

        p1=new JPanel();

        p1.add(view1);

        p2=new JPanel(new FlowLayout());

        p2.add(viewButton);

        p2.setBounds(220,220,75,35);

        p1.setBounds(130,20,300,100);

        p.add(p1);

        p.add(p2);
```

## DAIRY MANAGEMNET SYSTEM

```
p.setLayout(new BorderLayout());
frame.add(p);

frame.setSize(600,600);
frame.validate();
viewButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        // TODO Auto-generated method stub
        JFrame f;
        JTable j;

        f = new JFrame();
        f.setTitle("Company Details");
        DefaultTableModel model = new DefaultTableModel();
        j = new JTable(model);
        model.addColumn("Company ID");
        model.addColumn("company_name");

        try {

            rs=statement.executeQuery("select *
from company");

            while(rs.next()) {
                model.addRow(new
Object[]{rs.getString("company_id"),rs.getString("company_name")});
            }
        }
        catch(SQLException viewException) {
            displaySQLErrors(viewException);
        }

        j.setEnabled(false);
        j.setBounds(30, 40, 150, 150);
```



## DAIRY MANAGEMNET SYSTEM

```
        JScrollPane sp = new JScrollPane(j);

        f.add(sp);

        f.setSize(400, 400);

        f.setVisible(true);

    }

    });

}

}
```

### Details:

```
package Edairy;

import java.awt.BorderLayout;

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 javax.swing.JButton;

import javax.swing.JFrame;

import javax.swing.JLabel;
```

## DAIRY MANAGEMNET SYSTEM

```
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 Details{
    private static final long serialVersionUID = 1L;
    private JButton insertButton,deleteButton,updateButton,viewButton;
    private JPanel p1,p2,p3,p;
    private JLabel lblorder_id,lbltot,lblstatus;
    private JTextField txtorder_id,txttot,txtstatus;
    private List OrderIDList;
    Connection con;ResultSet rs;
    Statement statement;
    private JFrame frame;
    private JMenuItem insert,delete,update,view;
    public Details(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");
        }
    }
}
```

## DAIRY MANAGEMNET SYSTEM

```
        System.exit(1);
    }
    connectToDB();
    this.frame=frame;
    this.insert=insert;
    this.delete=delete;
    this.update=update;
    this.view=view;
    lblorder_id=new JLabel("Order ID");
    lbltot=new JLabel("Amount");
    lblstatus=new JLabel("Status");
    txtorder_id=new JTextField(15);
    txttot=new JTextField(15);
    txtstatus=new JTextField(8);
    this.p=p;
}
public void connectToDB()
{
    try {
        Connection con=DriverManager.getConnection(
            "jdbc:oracle:thin:@localhost:1521:xe","joshua","vasavi");
        statement=con.createStatement();
        statement.executeUpdate("commit");
    }
    catch (SQLException connectException)
    {
        System.out.println(connectException.getMessage());
        System.out.println(connectException.getSQLState());
    }
}
```

## DAIRY MANAGEMNET SYSTEM

```
        System.out.println(connectException.getErrorCode());

        System.exit(1);
    }
}

private void displaySQLExceptions(SQLException e)
{
    JOptionPane.showMessageDialog(p, "\nSQLException: " + e.getMessage() + "\n" + "SQLState: " +
e.getSQLState() + "\n" + "VendorError: " + e.getErrorCode() + "\n");
}

public void loadOrderIDs() {
    try {
        OrderIDList.removeAll();

        rs=statement.executeQuery("select order_id from details");
        while(rs.next()) {
            OrderIDList.add(rs.getString("order_id"));
        }
    }
    catch(SQLException e) {
        displaySQLExceptions(e);
    }
}

public void buildGUI() {
    insert.addActionListener(new ActionListener() {
        @Override
        public void actionPerformed(ActionEvent arg0) {
            // TODO Auto-generated method stub
            insertButton=new JButton("Submit");
            txtorder_id.setText(null);
            txttot.setText(null);
        }
    });
}
```

```
txtstatus.setText(null);

p.removeAll();

frame.invalidate();

frame.validate();

frame.repaint();

p1=new JPanel();

p1.setLayout(new GridLayout(3,2));

p1.add(lblorder_id);

p1.add(txtorder_id);

p1.add(lbltot);

p1.add(txttot);

p1.add(lblstatus);

p1.add(txtstatus);

p3=new JPanel(new FlowLayout());

p3.add(insertButton);

p3.setBounds(200,320,75,35); p1.setBounds(100,75,300,200);

p2 = new JPanel(new FlowLayout());

OrderIDList=new List(10);

loadOrderIDs();

p2.add(OrderIDList);//p2.setBackground(Color.cyan) ;

    p2.setBounds(300,100,350,180);

p. add(p1);p.add(p3);

p. add(p2);

p.setLayout(new BorderLayout());

    frame.add(p);

    frame.setSize(600,600);

    frame.validate();

insertButton.addActionListener(new ActionListener() {
```

```

        @Override

        public void actionPerformed(ActionEvent e) {

            // TODO Auto-generated method stub

            try {

                String query="INSERT INTO details
VALUES("+txtorder_id.getText()+"','"+txttot.getText()+"','"+txtstatus.getText()+"'");

                int i=statement.executeUpdate(query);

                JOptionPane.showMessageDialog(p,"\ninserted "+i+" rows succesfully");

                loadOrderIDs();

            }

            catch(SQLException insertException){

                displaySQLErrors(insertException);

            }

        }

    });

delete.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent arg0) {

        // TODO Auto-generated method stub

        deleteButton=new JButton("Delete");

        txtorder_id.setText(null);

        txttot.setText(null);

        txtstatus.setText(null);

        p.removeAll();

        frame.invalidate();

        frame.validate();
    }
}

```

```
frame.repaint();

p1=new JPanel();
p1.setLayout(new GridLayout(3,2));
p1.add(lblorder_id);
p1.add(txtorder_id);
p1.add(lbltot);
p1.add(txttot);
p1.add(lblstatus);
p1.add(txtstatus);
p3=new JPanel(new FlowLayout());
p3.add(deleteButton);
p3.setBounds(200,320,75,35); p1.setBounds(100,75,300,200);
p2 = new JPanel(new FlowLayout());
OrderIDList=new List(10);
loadOrderIDs();
p2.add(OrderIDList);//p2.setBackground(Color.cyan) ;
        p2.setBounds(300,100,350,180);
p. add(p1);p.add(p3);
p. add(p2);
p.setLayout(new BorderLayout());
        frame.add(p);
        frame.setSize(600,600);
        frame.validate();

OrderIDList.addItemListener(new ItemListener()
{
        public void itemStateChanged(ItemEvent e)
        {
                try
```

## DAIRY MANAGEMNET SYSTEM

```

        {
            rs=statement.executeQuery("select * from
details");

            while (rs.next())
            {
                if
(rs.getString("order_id").equals(OrderIDList.getSelectedItem()))

                break;
            }
            if (!rs.isAfterLast())
            {

                txtorder_id.setText(rs.getString("order_id"));

                txttot.setText(rs.getString("total_amt"));
                txtstatus.setText(rs.getString("status"));
            }
        }
        catch (SQLException selectException)
        {
            displaySQLErrors(selectException);
        }
    }

});

deleteButton.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        try {

```



## DAIRY MANAGEMNET SYSTEM

```
int a=JOptionPane.showConfirmDialog(p,"Are you sure want to delete:");
if(a==JOptionPane.YES_OPTION){
    String query="DELETE FROM details WHERE
Order_ID="+OrderIDList.getSelectedItem();

    int i=statement.executeUpdate(query);
    JOptionPane.showMessageDialog(p,"\nDeleted "+i+" rows
succesfully");loadOrderIDs();
}
}
catch(SQLException deleteException){
    displaySQLErrors(deleteException);
}
}
});

}

});

update.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent arg0) {
        // TODO Auto-generated method stub
        updateButton = new JButton("Modify");
        txtorder_id.setText(null);
        txttot.setText(null);
        txtstatus.setText(null);
        p.removeAll();
        frame.invalidate();
        frame.validate();
        frame.repaint();
    }
});
```

```
p1=new JPanel();
p1.setLayout(new GridLayout(3,2));
p1.add(lblorder_id);
p1.add(txtorder_id);
p1.add(lbltot);
p1.add(txttot);
p1.add(lblstatus);
p1.add(txtstatus);
p3=new JPanel(new FlowLayout());
p3.add(updateButton);
p3.setBounds(200,320,75,35); p1.setBounds(100,75,300,200);
p2 = new JPanel(new FlowLayout());
OrderIDList=new List(10);
loadOrderIDs();
p2.add(OrderIDList);//p2.setBackground(Color.cyan) ;
    p2.setBounds(300,100,350,180);
p. add(p1);p.add(p3);
p. add(p2);
p.setLayout(new BorderLayout());
    frame.add(p);
    frame.setSize(600,600);
    frame.validate();
OrderIDList.addItemListener(new ItemListener()
{
    public void itemStateChanged(ItemEvent e)
    {
        try
        {
```

## DAIRY MANAGEMNET SYSTEM

```

        details");

        rs=statement.executeQuery("select * from

        while (rs.next())
        {
            if
(rs.getString("order_id").equals(OrderIDList.getSelectedItem()))

            break;
        }
        if (!rs.isAfterLast())
        {

            txtorder_id.setText(rs.getString("order_id"));

            txttot.setText(rs.getString("total_amt"));
            txtstatus.setText(rs.getString("status"));

        }
    }
    catch (SQLException selectException)
    {

        displaySQLErrors(selectException);

    }

});

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){
```

## DAIRY MANAGEMNET SYSTEM

```
String query="update details set
total_amt="+txttot.getText()+" ,status='"+txtstatus.getText()+"' WHERE order_ID="+OrderIDList.getSelectedItem();

int i=statement.executeUpdate(query);

JOptionPane.showMessageDialog(p,"\nupdated
"+i+" rows succesfully");loadOrderIDs();

    }

    }

    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("Details view");

        Font myFont = new Font("Serif",Font.BOLD,50);

        view1.setFont((myFont));

        viewButton=new JButton("View");

        p1=new JPanel();

        p1.add(view1);
```

## DAIRY MANAGEMNET SYSTEM

```
p2=new JPanel(new FlowLayout());

p2.add(viewButton);

p2.setBounds(220,220,75,35);

p1.setBounds(130,20,300,100);

p.add(p1);

p.add(p2);

p.setLayout(new BorderLayout());

frame.add(p);

frame.setSize(600,600);

frame.validate();

viewButton.addActionListener(new ActionListener() {

    @Override

    public void actionPerformed(ActionEvent e) {

        // TODO Auto-generated method stub

        JFrame f;

        JTable j;

        f = new JFrame();

        f.setTitle("Details ");

        DefaultTableModel model = new DefaultTableModel();

        j = new JTable(model);

        model.addColumn("Order ID");

        model.addColumn("Amount");

        model.addColumn("Status");

        try {

            rs=statement.executeQuery("select *

from details");

            while(rs.next()) {
```

```
                                model.addRow(new
Object[]{rs.getString("order_id"), rs.getString("total_amt"),rs.getString("status")});
                                }
                                }
                                catch(SQLException viewException) {
                                    displaySQLErrors(viewException);
                                }
                                j.setEnabled(false);
                                j.setBounds(30, 40, 150, 150);
                                JScrollPane sp = new JScrollPane(j);
                                f.add(sp);
                                f.setSize(400, 400);
                                f.setVisible(true);
                                }
                            });
                        }
                    });
                }
            }
        }
```

## Github links and folder structure:

Link:

<https://github.com/joshua-peter/DBMS---Project>

Folder structure:

## DAIRY MANAGEMNET SYSTEM

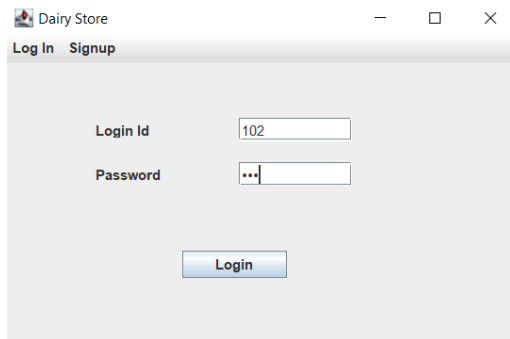
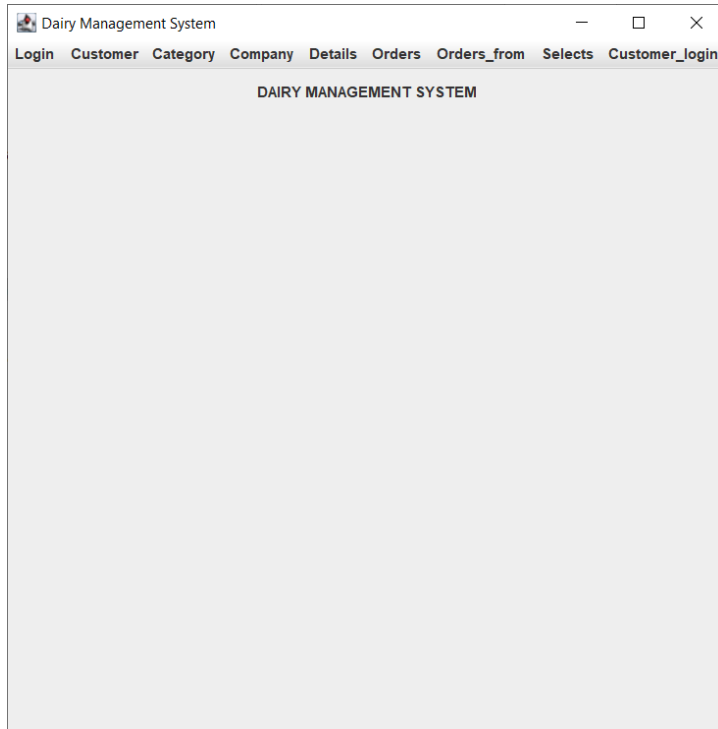
This PC > Windows (C:) > Users > joshu > eclipse-workspace > DBMS >				
Name	Date modified	Type	Size	
.settings	14-06-2021 17:02	File folder		
bin	16-06-2021 12:16	File folder		
src	14-06-2021 17:13	File folder		
.classpath	14-06-2021 17:02	CLASSPATH File	1 KB	
.project	14-06-2021 17:02	PROJECT File	1 KB	

This PC > Windows (C:) > Users > joshu > eclipse-workspace > DBMS > src >				
Name	Date modified	Type	Size	
Edairy	16-06-2021 14:15	File folder		

This PC > Windows (C:) > Users > joshu > eclipse-workspace > DBMS > src > Edairy >				
Name	Date modified	Type	Size	
Category.java	20-06-2021 18:47	JAVA File	14 KB	
Company.java	20-06-2021 18:47	JAVA File	11 KB	
Customer.java	20-06-2021 18:47	JAVA File	14 KB	
Customer_login.java	20-06-2021 18:47	JAVA File	14 KB	
Details.java	20-06-2021 18:47	JAVA File	12 KB	
EdairyUI.java	20-06-2021 17:52	JAVA File	7 KB	
login.java	20-06-2021 18:47	JAVA File	12 KB	
Main.java	20-06-2021 17:53	JAVA File	6 KB	
Orders.java	20-06-2021 18:47	JAVA File	14 KB	
Orders_from.java	16-06-2021 17:11	JAVA File	14 KB	
Selects.java	20-06-2021 18:47	JAVA File	14 KB	


## TESTING

### OUTPUT SCREENSHOTS:





## DAIRY MANAGEMNET SYSTEM


 Dairy Store

Log In   Signup

Login Id  

Password  

User Name  

 Dairy Management System

Login   Customer   Category   Company   Details   Orders   Orders\_from   Selects   Customer\_login


Login\_ID  

Name  

Password  

123  
504  
505  
507  
508  
509  
510  
511

Message  
i inserted 1 rows succesfully

 Dairy Management System

Login   Customer   Category   Company   Details   Orders   Orders\_from   Selects   Customer\_login

Login\_ID  

Name  

Password  

123  
502  
504  
505  
507  
508  
509  
510  
511

Message  
i Deleted 1 rows succesfully

# DAIRY MANAGEMNET SYSTEM

Dairy Management System

Login Customer Category Company Details Orders Orders\_from Selects Customer\_login

Login\_ID: 505

Name: ram krishna

Password: \*\*\*

Modify

123  
502  
504  
505  
508  
509  
510  
511

Message: Updated 1 rows succesfully

OK

Dairy Management System

Login Customer Category Company Details Orders Orders\_from Selects Customer\_login

## View logins

View

login details

login_id	Name	password
504	joshua	josh
511	sai	sai
123	saketh	sak
505	ram	ram
502	peter	pete
508	vamsi	vam
509	rohith	rohi
510	varun	var

Dairy Management System

Login Customer Category Company Details Orders Orders\_from Selects Customer\_login

customer\_id: 405

customer\_name: vamsi

phone\_no: 9876543256

email: vam@hotmail.com

address: nallakunta

234  
235  
405  
456

Submit

Message: inserted 1 rows succesfully

OK

Dairy Management System

Login Customer Category Company Details Orders Orders\_from Selects Customer\_login

customer\_id: 405

customer\_name: vamsi

phone\_no: 9876543256

email: vam@hotmail.com

address: nallakunta

234  
235  
405  
456

Delete

Message: Deleted 1 rows succesfully

OK

# DAIRY MANAGEMNET SYSTEM

Dairy Management System

Login Customer Category Company Details Orders Orders\_from Selects Customer\_login

customer\_id: 234

customer\_name: joshua

phone\_no: 8764354675

email: j@gmail.com

address: gandhinagar

234  
235  
456

Message

updated 1 rows succesfully

Modify

Dairy Management System

Login Customer Category Company Details Orders Orders\_from Selects Customer\_login

## CustomerAccount view

View

login\_User details

customer_id	customer_name	phone_no	E-Mail	Address
456	sai	76543	dgh	rghj
234	joshua	8764354675	j@gmail.com	gandhinagar
235	peter	8764123675	p@gmail.com	himayatnagar

Dairy Management System

Login Customer Category Company Details Orders Orders\_from Selects Customer\_login

Category ID: 204

Category Name: Butter

Price: 100

Availability: yes

Code: BU01

203

Submit

Message

inserted 1 rows succesfully

Dairy Management System

Login Customer Category Company Details Orders Orders\_from Selects Customer\_login

Category ID: 204

Category Name: Butter

Price: 100

Availability: yes

Code: BU01

203  
204

Delete

Message

Deleted 1 rows succesfully

# DAIRY MANAGEMNET SYSTEM

Dairy Management System

Login Customer Category Company Details Orders Orders\_from Selects Customer\_login

Category ID: 203

Category Name: milk

Price: 40

Availability: no

Code: MK02

203  
204

Message: updated 1 rows succesfully

Modify

Dairy Management System

Login Customer Category Company Details Orders Orders\_from Selects Customer\_login

## Category view

View

Category details

Category id	Category Name	Price	code	availability
203	milk	40	MK02	yes
204	Butter	100	BU01	yes

Dairy Management System

Login Customer Category Company Details Orders Orders\_from Selects Customer\_login

Company ID: 303

company\_name: Arogya

Submit

302  
304

Message: inserted 1 rows succesfully

Dairy Management System

Login Customer Category Company Details Orders Orders\_from Selects Customer\_login

Company ID: 303

company\_name: Arogya

Delete

302  
303  
304

Message: Deleted 1 rows succesfully

# DAIRY MANAGEMNET SYSTEM

Dairy Management System

Login Customer Category Company Details Orders Orders\_from Selects Customer\_login

Company ID: 304

company\_name: Amul

Modify

302  
303  
304

Message: updated 1 rows succesfully

OK

Dairy Management System

Login Customer Category Company Details Orders Orders\_from Selects Customer\_login

## Company view

View

Company Details

Company ID	company_name
304	Amul
302	VUJAYA

Dairy Management System

Login Customer Category Company Details Orders Orders\_from Selects Customer\_login

Order ID: 103

Amount: 100

Status: dispatched

102  
302

Submit

Message: inserted 1 rows succesfully

OK

Dairy Management System

Login Customer Category Company Details Orders Orders\_from Selects Customer\_login

Order ID: 102

Amount: 240

Status: DELIVERED

102  
103  
302

Delete

Message: Deleted 1 rows succesfully

OK

# DAIRY MANAGEMNET SYSTEM

Dairy Management System

Login Customer Category Company Details Orders Orders\_from Selects Customer\_login

Order ID: 103

Amount: 430

Status: dispatched

102  
103  
302

Modify

Message

updated 1 rows succesfully

OK

Dairy Management System

Login Customer Category Company Details Orders Orders\_from Selects Customer\_login

## Details view

View

Details

Order ID	Amount	Status
302	230	delivered
103	430	dispatched

Dairy Management System

Login Customer Category Company Details Orders Orders\_from Selects Customer\_login

Customer ID: 456

Order\_ID: 302

Day: 20-08-2019

234->103

Submit

Message

inserted 1 rows succesfully

OK

Dairy Management System

Login Customer Category Company Details Orders Orders\_from Selects Customer\_login

Customer ID: 456

Order\_ID: 302

Day: 2013-02-10 00:00:00

234->103  
456->302

Delete

Message

Deleted 1 rows succesfully

OK

# DAIRY MANAGEMNET SYSTEM

Dairy Management System

Login Customer Category Company Details Orders Orders\_from Selects Customer\_login

Customer ID: 456

Order\_ID: 302

Day: 10-02-2013

234->103  
456->302

Modify

Message

updated 1 rows succesfully

OK

Dairy Management System

Login Customer Category Company Details Orders Orders\_from Selects Customer\_login

## Order Details

View

Customer Login details

customer_id	order_id	day
234	103	2020-10-20 00:00:00
234	302	2014-12-12 00:00:00

Dairy Management System

Login Customer Category Company Details Orders Orders\_from Selects Customer\_login

Customer ID: 234

Company\_ID: 304

Day: 12-03-2015

456->302

Submit

Message

inserted 1 rows succesfully

OK

Dairy Management System

Login Customer Category Company Details Orders Orders\_from Selects Customer\_login

Customer ID: 234

Company\_ID: 304

Day: 2013-12-12 00:00:00

456->302  
234->304

Delete

Message

Deleted 1 rows succesfully

OK

# DAIRY MANAGEMNET SYSTEM

Dairy Management System

Login Customer Category Company Details Orders Orders\_from Selects Customer\_login

Customer ID: 234

Company\_ID: 304

Day: 12-09-2010

456->302  
234->304

Modify

Message

updated 1 rows succesfully

OK

Dairy Management System

Login Customer Category Company Details Orders Orders\_from Selects Customer\_login

## Company Order

View

Customer Login company

customer_id	Company_ID	day
456	302	2013-12-12 00:00:00
234	304	2010-09-12 00:00:00

Dairy Management System

Login Customer Category Company Details Orders Orders\_from Selects Customer\_login

Login ID: 511

Customer ID: 234

Day: 10-10-2013

504->234  
505->235

Submit

Message

inserted 1 rows succesfully

OK

Dairy Management System

Login Customer Category Company Details Orders Orders\_from Selects Customer\_login

Login ID: 508

Customer ID: 234

Day: 2013-10-10 00:00:00

504->234  
505->235  
511->234

Delete

Message

Deleted 1 rows succesfully

OK



# DAIRY MANAGEMNET SYSTEM

Dairy Management System

Login Customer Category Company Details Orders Orders\_from Selects Customer\_login

Login ID: 508

Customer ID: 234

Day: 10-10-2013

504->234  
505->235  
511->234

Modify

Message

updated 1 rows succesfully

OK

Dairy Management System

Login Customer Category Company Details Orders Orders\_from Selects Customer\_login

## Customer Logins

View

Customer Login details

login_id	customer_id	day
504	234	2001-11-09 00:00:00
505	235	2020-05-11 00:00:00
511	234	2013-10-10 00:00:00

Dairy Management System

Login Customer Category Company Details Orders Orders\_from Selects Customer\_login

Category ID: 204

Company\_ID: 304

Day: 12-12-2012

203->302  
204->304

Submit

Message

inserted 1 rows succesfully

OK

Dairy Management System

Login Customer Category Company Details Orders Orders\_from Selects Customer\_login

Category ID: 204

Company\_ID: 304

Day: 2000-09-23 00:00:00

203->302  
204->304

Delete

Message

Deleted 1 rows succesfully

OK

## DAIRY MANAGEMNET SYSTEM

The screenshot shows two windows from the 'Dairy Management System'. The main window is titled 'Product Company' and contains a form with the following fields:

- Category ID: A dropdown menu with '204' selected. A tooltip shows a list of options: '203->302' and '204->304'.
- Company\_ID: A dropdown menu with '304' selected.
- Day: A text input field containing '10-10-2014'.

Below the form is a 'Modify' button. A 'Message' dialog box is open, displaying an information icon and the text 'updated 1 rows succesfully' (note the typo). The second window is titled 'Company Category' and displays a table with the following data:

category_id	Company_ID	day
203	302	2000-09-23 00:00:00
204	304	2014-10-10 00:00:00

## DATABASE OUTPUTS: BEFORE

```
SQL> select * from customer;
```

CUSTOMER_ID	CUSTOMER_NAME	PHONE_NO	EMAIL
234	joshua gandhinagar	8764354675	j@gmail.com
235	peter himayatnagar	8764123675	p@gmail.com

## AFTER

```
SQL> select * from customer;
```

CUSTOMER_ID	CUSTOMER_NAME	PHONE_NO	EMAIL
234	joshua gandhinagar	8764354675	j@gmail.com
235	peter himayatnagar	8764123675	p@gmail.com
236	sai nallakunta	8765456543	s@gmail.com

## DISCUSSION AND FUTURE WORK

So far, this project has helped us to sell products to the customers if they are available. It helped us to view the details of the products, customers and the company.

In future we try to include an option which allows the customer to pre book the products and see that if they are not available. We ensure to contact the company and get the products as soon as possible and deliver them to the customers.

## REFERENCES:

1. Abraham Silberschatz, Henry F Korth, S. Sudarshan, Database System Concepts, 6th Edition, McGraw-Hill International Edition, 2010.
2. [https://docs.oracle.com/cd/E11882\\_01/server.112/e40540/intro.htm#CNCPT001](https://docs.oracle.com/cd/E11882_01/server.112/e40540/intro.htm#CNCPT001)

# THANK YOU