



## **Final Report**

### **Club Management System**

*Embedded Project*

**Submitted**

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## **Abstract:**

This Club management System is generally for managing clubs which are under a organization. We can take example of VIT university which contains many clubs or chapters so this club management system will manage all the clubs operating under VIT university. This management will contain name of the clubs, a unique club id, number of members, information of all the members like name, phone number, DOB, Date of Joining, etc.

This management system can modify or display the data of the existing club and if a new club is formed it will assign it a unique club id and take the details from the admin and store it in the backend database which is created using Oracle server.

The software system will be able to eliminate all the paper work required in implementing the task of data maintenance, which previously was tedious, time consuming and error prone.

## **Introduction:**

So we will be using Java to code the front end of our club management system and Oracle for the backend purpose.

Our Club Management System provides platform for the administrator to monitor all the clubs operating under a university.

Example: it will help the administrator to enter the details of a new club, modify the existing details of a club, details about the members of a club and many more.

## **Existing System:**

The existing systems are for a particular type of club like if its for a gym it will able to do only gym management, if its for dance club it will only manage the dance club.

But we are trying to develop a club management system which will manage each and every type of club, it will not be oriented to single club.

Some existing systems are: Mind Body, Zen Planner, Coacha, etc.

## **Literature review:**

## **Other management systems review:**

**10to8:** A leading online booking system and appointment scheduling tool that helps businesses communicate with clients more efficiently to reduce no-shows and prevents schedule conflicts. It can handle volume appointments and has features such as two-way calendar-integrated chat; integrations with online calendars; automated smart SMS and email alerts; rota management to easily coordinate staff availability and assignments; auditing functions; dashboard and reporting; and many more.

**MindBody:** A business management software for health and wellness companies with features that automate business tasks, including payment collection, confirmations, rescheduling, and payroll processing. It also has marketing tools that allow organizations to stay in touch with customers and integrate promotions at the point of sale. Among its many capabilities are automatic notifications, confirmations and reminders, cloud appointment through the website or mobile apps, reporting and business performance tracking, and direct linking to social media page with real-time updates.

**Zen Planner:** A popular business management and scheduling tool designed for fitness businesses. The cloud platform simplifies business operations and membership management functions through tools and features that track member's attendance and progress, allow

online scheduling, enable automated billing and integrated payment processing, provide customized reporting and analytics, and offer client self-service through mobile apps and member portal.

**Virtuagym:** A one-stop solution for trainers, fitness clubs, and coaches to manage the daily operations of their clubs through an online management platform. It is built to enable fitness professionals to focus on effective fitness coaching, while running a successful business. It brings custom branded apps and an online community to promote a club's or a trainer's brand and boost client engagement. It has flexible membership options, hardware integrations, online payment modes, membership management function, and automated check-in system.

**Trainerize:** A fitness software solution for gyms and fitness centers that can manage all day to day business operations. The software helps trainers manage individual clients, build personalized training plans, track their performance. Trainerize provides a vast library of videos from where trainers can learn and teach clients different exercises. In addition to exercise routines, trainers can use their smartphone to monitor client's nutrition intake or send prescribed meal plans to clients in the form of PDF files. The software likewise has built in automated messaging and notifications, and includes an app messaging module to allow conducting sessions through Skype.

**Coacha:** Built for sports clubs, Coacha is a feature-complete solution for enticing athletes and managers, monitoring of athletic performance, attendance tracking, handling of membership fees, and others. With this software, you are able to create athlete profiles and neatly organize them by categorizing based on athletic capability,

gender, and others. For frictionless communication, the software allows users to send bulk emails or use SMS broadcast to tap a large number of athletic groups or coaches.

### **Proposed System:**

- This system will automatically assign a unique club number to each and every club.
- It will manage all types of clubs rather than focusing on a single type of club.
- The club management system will be able to modify details of existing clubs.
- It will also manage all the details of the club members.

## **Methodology:**

Currently, do not have a platform to monitor club status. Users have to visit different system and Users do not know the exact event day.

So we will be using Java programming language to make the front the of the management system and the logics of modifying the existing details or to create a new club. We will be using Oracle as database to store data of all the clubs and the members in the clubs. We will be connecting our java front end with our backend Oracle using jdbc drivers.

## **CODE:**

```
import java.awt.BorderLayout;
import java.awt.Color;
import java.awt.FlowLayout;
import java.awt.Font;
import java.awt.GridLayout;
import java.awt.event.ActionEvent;
import java.beans.Statement;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.logging.Level;
import java.util.logging.Logger;
```

```
import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JPasswordField;
import javax.swing.JTextField;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JOptionPane;
import javax.swing.JPanel;
import javax.swing.JPasswordField;
import javax.swing.JScrollPane;
import javax.swing.JTable;
import javax.swing.table.DefaultTableModel;
```

```
class RegP {
```

```
    JFrame f;
```

```
    JLabel nl,passl,clidl,fac1;
```

```
    public static JTextField nt,clidt,fact;
```



JPasswordField passt;

JButton RegB,LogB;

//-----Register Page-----

public RegP() {

f=new JFrame("Register Club");

f.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

f.setVisible(true);

f.setBounds(300,150,500,500);

f.setLayout(null);

clidl=new JLabel("Club Id: ");

nl=new JLabel("Club Name: ");

facf=new JLabel("Faculty Coordinater: ");

nt=new JTextField();

clidt=new JTextField();

fact=new JTextField();

clidl.setBounds(30,30,100,20);

f.add(clidl);

clidt.setBounds(200, 30, 100, 20);

f.add(clidt);

nl.setBounds(30, 100, 150, 20);

```
f.add(nl);  
nt.setBounds(200,100,200,20);  
f.add(nt);
```

```
facl.setBounds(30,130,150,20);  
f.add(facl);  
fact.setBounds(200,130,200,20);  
f.add(fact);
```

```
RegB=new JButton("Register");  
RegB.setBounds(30,200,370,20);  
f.add(RegB);
```

```
LogB=new JButton("LogIn if already registered");  
LogB.setBounds(30,240,370,20);  
f.add(LogB);
```

```
RegB.addActionListener((ActionEvent e) -> {  
  
    if (clidt.getText().trim().equals(""))  
    {  
        JOptionPane.showMessageDialog(null,"Club ID cannot be left empty");  
        clidt.requestFocus();  
    }  
    else if (nt.getText().trim().equals(""))  
    {  
        JOptionPane.showMessageDialog(null,"Club name cannot be left empty");
```

```

        nt.requestFocus();
    }
    else if (fact.getText().trim().equals(""))
    {
        JOptionPane.showMessageDialog(null,"Faculty cannot be left empty");
        fact.requestFocus();
    }
    else {
        try{
            Class.forName("oracle.jdbc.driver.OracleDriver");
            Connection con=DriverManager.getConnection
("jdbc:oracle:thin:@localhost:1521:NAMAN","scott","tiger");
            PreparedStatement st=(PreparedStatement) con.prepareStatement
("select * from clubs where clubid=?");
            st.setString(1, clidt.getText());
            ResultSet rs=st.executeQuery();
            if(rs.next()){
                JOptionPane.showMessageDialog(null, "The club Id already exists, please
change");
                clidt.setText("");
                clidt.requestFocus();
            }
            else{
                f.setVisible(false);
                new Pass();
            }

            st.close();

```

```

        con.close();
    } catch (ClassNotFoundException ex) {
    } catch (SQLException ex) {
    } catch (Exception ex) {
        Logger.getLogger(RegP.class.getName()).log(Level.SEVERE, null, ex);
    }
});
LogB.addActionListener(e->{
    f.setVisible(false);
    new loginP();
});
}
}

```

```

class Pass {

    JFrame f;
    JLabel pl,pcl;
    JPasswordField pt,pct;
    JButton SubB;

    public Pass() {
        f=new JFrame("Password");
        f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        f.setVisible(true);
        f.setBounds(300,150,450,200);
    }
}

```

```
f.setLayout(null);
```

```
pl=new JLabel("Enter Password: ");
```

```
pcl=new JLabel("Confrim Password: ");
```

```
pt=new JPasswordField();
```

```
pct=new JPasswordField();
```

```
pl.setBounds(30,30,150,20);
```

```
f.add(pl);
```

```
pt.setBounds(200,30,200,20);
```

```
f.add(pt);
```

```
pcl.setBounds(30,60,150,20);
```

```
f.add(pcl);
```

```
pct.setBounds(200,60,200,20);
```

```
f.add(pct);
```

```
SubB=new JButton("Submit");
```

```
SubB.setBounds(30,100,370,20);
```

```
f.add(SubB);
```

```
SubB.addActionListener(e->{
```

```
    if(pt.getText().equals(pct.getText())){
```

```
        try {
```

```
            Class.forName("oracle.jdbc.driver.OracleDriver");
```

```

        Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:NAMAN","sco
tt","tiger");

        PreparedStatement pst=con.prepareStatement("insert into clubs
values(?,?,?,?)");

        pst.setString(1, RegP.clidt.getText());

        pst.setString(3, pt.getText());

        pst.setString(2, RegP.nt.getText());

        //pst.setString(3, RegP.unt.getText());

        pst.setString(4, RegP.fact.getText());

        pst.executeUpdate();

        pst.close();

        con.close();

        JOptionPane.showMessageDialog(null, "Data added successfully");

        f.setVisible(false);

        new loginP();

    } catch (ClassNotFoundException ex) {

        Logger.getLogger(Pass.class.getName()).log(Level.SEVERE, null, ex);

    } catch (SQLException ex) {

        Logger.getLogger(Pass.class.getName()).log(Level.SEVERE, null, ex);

    }

}

else if(pt.getText().equals("")){

    JOptionPane.showMessageDialog(null, "Cannot leave field empty");

    pt.requestFocus();

}

else if(pct.getText().equals("")){

```

```

        JOptionPane.showMessageDialog(null, "Cannot leave field empty");
        pct.requestFocus();
    }
    else if(!pt.getText().equals(pct.getText())){
        JOptionPane.showMessageDialog(null, "Enter same Password in both
Fields");
        pct.requestFocus();
    }else{
        new loginP();
    }
});
}

}

```

```

public class loginP {

    public static void main(String args[]){
        new loginP();
    }

    static JFrame f;
    static JLabel unl,pl;
    static JButton SubB,RegB;
    static JTextField unt;
    static JPasswordField pt;

```

```
public loginP() {  
    f=new JFrame("Log In");  
    f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);  
    f.setVisible(true);  
    f.setBounds(300, 150, 500, 500);  
    f.setLayout(null);  
  
    unl=new JLabel("Club ID: ");  
    pl=new JLabel("Password: ");  
    SubB=new JButton("Log In");  
    RegB=new JButton("Register");  
    unt=new JTextField();  
    pt=new JPasswordField();  
  
    unl.setBounds(20,20,100,20);  
    pl.setBounds(20,50,100,20);  
  
    unt.setBounds(100,20,200,20);  
    pt.setBounds(100,50,200,20);  
  
    SubB.setBounds(20,100,130,20);  
    RegB.setBounds(170,100,130,20);  
  
    SubB.addActionListener(e->{  
        //Connection conn=new Connection();  
        if(unt.getText().equals("")){
```



```

JOptionPane.showMessageDialog(null, "Cannot leave username empty");
unt.requestFocus();
}
else if(pt.getText().equals("")){
    JOptionPane.showMessageDialog(null, "Cannot leave password empty");
    pt.requestFocus();
}
else{
    try{
        Class.forName("oracle.jdbc.driver.OracleDriver");

        Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:NAMAN","sco
tt","tiger");

        //Statement s=con.createStatement();

        PreparedStatement pst=con.prepareStatement("Select clubid,passwd
from clubs where clubid=?");

        pst.setString(1, unt.getText());

        ResultSet rs=pst.executeQuery();

        if(rs.next()){
            if(rs.getString("passwd").equals(pt.getText())){
                f.setVisible(false);
                new HomeP();
            }
            else{
                JOptionPane.showMessageDialog(null, "Password incorrect", "Wrong
Entry",JOptionPane.ERROR_MESSAGE);
            }
        }
    }else{

```

```

        JOptionPane.showMessageDialog(null, "ClubId incorrect", "Wrong
Entry", JOptionPane.ERROR_MESSAGE);
    }
} catch (ClassNotFoundException ex) {
    Logger.getLogger(loginP.class.getName()).log(Level.SEVERE, null, ex);
} catch (SQLException ex) {
    Logger.getLogger(loginP.class.getName()).log(Level.SEVERE, null, ex);
}
}
});

```

```

RegB.addActionListener(e->{
    f.setVisible(false);
    new RegP();
});

```

```

f.add(unl);
f.add(pl);
f.add(unt);
f.add(pt);
f.add(SubB);
f.add(RegB);

}
}

```

```

class HomeP {

```

```
JFrame f;  
  
JPanel menu;  
  
JButton adm,dlm,shm,altc,hp,b1,b2,b3,b4;  
  
public HomeP() {  
    //System.out.println("home page reached");  
    f=new JFrame("Home Page");  
    f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);  
    f.setVisible(true);  
    f.setBounds(300,0,900,600);  
    f.setLayout(new BorderLayout());  
  
    menu=new JPanel();  
    menu.setBackground(Color.DARK_GRAY);  
    menu.setLayout(new FlowLayout());  
    f.add(menu,BorderLayout.NORTH);  
  
    hp=new JButton("Home Page");  
    adm=new JButton("Add Members");  
    dlm=new JButton("Delete Members");  
    shm=new JButton("Show Members");  
    altc=new JButton("Do Changes");  
  
    hp.addActionListener(e->{  
        new HomeP();  
    });  
  
    adm.addActionListener(e->{
```

```
        new AddMem();  
    });
```

```
    dlm.addActionListener(e->{  
        new DelMem();  
    });
```

```
    shm.addActionListener(e->{  
        new ShowMem();  
    });
```

```
    altc.addActionListener(e->{  
        new AlterMem();  
    });
```

```
    menu.add(hp);  
    menu.add(adm);  
    menu.add(dlm);  
    menu.add(shm);
```

```
    JPanel cen=new JPanel();  
    cen.setBackground(Color.white);  
    JLabel emp=new JLabel();
```

```
    cen.setLayout(new GridLayout(8,1));  
    f.add(cen,BorderLayout.CENTER);  
    ResultSet rs1,rs;
```

```
JLabel c1n1=new JLabel();  
c1n1.setFont(new Font(null,Font.BOLD,30));  
c1n1.setHorizontalAlignment(JLabel.CENTER);
```

```
JLabel c1id=new JLabel();  
c1id.setFont(new Font(null,Font.PLAIN,15));  
c1id.setHorizontalAlignment(JLabel.CENTER);
```

```
JLabel fact=new JLabel();  
fact.setFont(new Font(null,Font.PLAIN,15));  
fact.setHorizontalAlignment(JLabel.CENTER);
```

```
JLabel pres=new JLabel();  
pres.setFont(new Font(null,Font.PLAIN,15));  
pres.setHorizontalAlignment(JLabel.CENTER);
```

```
try {  
    Class.forName("oracle.jdbc.driver.OracleDriver");  
    Connection  
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:NAMAN","sco  
tt","tiger");  
    PreparedStatement pst=con.prepareStatement("Select clubname,clubid,fact  
from clubs");  
    rs=pst.executeQuery();  
    PreparedStatement pst1=con.prepareStatement("Select membername from  
members where designation='President' and clubid=?");  
    pst1.setString(1, loginP.unt.getText());  
    rs1=pst1.executeQuery();  
    rs.next();
```

```
rs1.next();  
cnnl.setText(rs.getString("clubname"));  
clid.setText("Club ID: "+rs.getString("clubid"));  
fact.setText("Faculty Coordinator: "+rs.getString("fact"));  
pres.setText("President: "+rs1.getString("membername"));
```

```
} catch (ClassNotFoundException ex) {  
    Logger.getLogger(HomeP.class.getName()).log(Level.SEVERE, null, ex);  
} catch (SQLException ex) {  
    Logger.getLogger(HomeP.class.getName()).log(Level.SEVERE, null, ex);  
}
```

```
cen.add(new JLabel());  
cen.add(cnnl);  
cen.add(new JLabel());  
cen.add(clid);  
cen.add(fact);  
cen.add(pres);  
}  
public static void main(String[] args) {  
    new HomeP();  
}  
}
```

```

class AddMem{

    JFrame f;

    JPanel menu,cenp;

    JButton adm,dlm,shm,altc,hp,b1,b2,b3,b4;

    public AddMem() {

        f=new JFrame("Add Members");

        f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

        f.setVisible(true);

        f.setBounds(300,0,900,600);

        f.setLayout(new BorderLayout());

        menu=new JPanel();

        menu.setBackground(Color.DARK_GRAY);

        menu.setLayout(new FlowLayout());

        f.add(menu,BorderLayout.NORTH);

        hp=new JButton("Home Page");

        adm=new JButton("Add Members");

        dlm=new JButton("Delete Members");

        shm=new JButton("Show Members");

        altc=new JButton("Do Changes");

        hp.addActionListener(e->{

            new HomeP();

        });
    }
}

```

```
adm.addActionListener(e->{  
    new AddMem();  
});
```

```
dml.addActionListener(e->{  
    new DelMem();  
});
```

```
shm.addActionListener(e->{  
    new ShowMem();  
});
```

```
altc.addActionListener(e->{  
    new AlterMem();  
});
```

```
menu.add(hp);  
menu.add(adm);  
menu.add(dml);  
menu.add(shm);
```

```
cenp=new JPanel();  
cenp.setBackground(Color.WHITE);  
cenp.setLayout(null);  
f.add(cenp);
```



```
JLabel memidl=new JLabel("Member ID: ");  
memidl.setBounds(30,30,100,20);
```

```
JTextField memidt1=new JTextField();  
memidt1.setBounds(120,30,50,20);  
memidt1.setEditable(false);  
memidt1.setText(loginP.unt.getText());
```

```
JTextField memidt2=new JTextField();  
memidt2.setBounds(170, 30, 100, 20);
```

```
JLabel nl=new JLabel("Name: ");  
nl.setBounds(30,60,100,20);
```

```
JTextField nt=new JTextField();  
nt.setBounds(120,60,200,20);
```

```
JLabel desl=new JLabel("Designation: ");  
desl.setBounds(30,90,100,20);
```

```
JTextField dest=new JTextField();  
dest.setBounds(120,90,200,20);
```

```
JLabel eml=new JLabel("E-mail: ");  
eml.setBounds(30,120,100,20);
```

```
JTextField emt=new JTextField();
```

```
emt.setBounds(120,120,100,20);
```

```
JLabel phl=new JLabel("Phone No.: ");
```

```
phl.setBounds(30,150,100,20);
```

```
JTextField pht=new JTextField();
```

```
pht.setBounds(120,150,100,20);
```

```
JButton AddB=new JButton("Add");
```

```
AddB.setBounds(120,200,100,20);
```

```
AddB.addActionListener(e->{
```

```
    try {
```

```
        Class.forName("oracle.jdbc.driver.OracleDriver");
```

```
        Connection
```

```
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:NAMAN","scott","tiger");
```

```
        PreparedStatement pst=con.prepareStatement("insert into members  
values(?,?,?,?,?,?)");
```

```
        pst.setString(1,loginP.unt.getText()+memidt2.getText());
```

```
        pst.setString(2,loginP.unt.getText());
```

```
        pst.setString(3,nt.getText());
```

```
        pst.setString(4,emt.getText());
```

```
        pst.setString(5,pht.getText());
```

```
        pst.setString(6, dest.getText());
```

```
        pst.executeQuery();
```

```
        JOptionPane.showMessageDialog(null, "Member Added  
Successfully!", "Member Added", JOptionPane.INFORMATION_MESSAGE);
```

```
        memidt2.setText("");
```

```
        nt.setText("");
```

```
        emt.setText("");
        pht.setText("");
        dest.setText("");
    } catch (ClassNotFoundException ex) {
        Logger.getLogger(AddMem.class.getName()).log(Level.SEVERE, null, ex);
    } catch (SQLException ex) {
        Logger.getLogger(AddMem.class.getName()).log(Level.SEVERE, null, ex);
    }

});

cenp.add(memidl);
cenp.add(memidt1);
cenp.add(memidt2);
cenp.add(pht);
cenp.add(phl);
cenp.add(nt);
cenp.add(nl);
cenp.add(empl);
cenp.add(emt);
cenp.add(AddB);
cenp.add(dest);
cenp.add(desl);
}
}
```

```
class DelMem{

    JFrame f;

    JPanel menu;

    JButton adm,dlm,shm,altc,hp,b1,b2,b3,b4;

    public DelMem(){

        f=new JFrame("Delete Members");

        f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

        f.setVisible(true);

        f.setBounds(300,0,900,600);

        f.setLayout(new BorderLayout());

        menu=new JPanel();

        menu.setBackground(Color.DARK_GRAY);

        menu.setLayout(new FlowLayout());

        f.add(menu,BorderLayout.NORTH);

        hp=new JButton("Home Page");

        adm=new JButton("Add Members");

        dlm=new JButton("Delete Members");

        shm=new JButton("Show Members");

        altc=new JButton("Do Changes");

        hp.addActionListener(e->{

            new HomeP();

        });

    }

}
```

```
adm.addActionListener(e->{  
    new AddMem();  
});
```

```
dml.addActionListener(e->{  
    new DelMem();  
});
```

```
shm.addActionListener(e->{  
    new ShowMem();  
});
```

```
altc.addActionListener(e->{  
    new AlterMem();  
});
```

```
menu.add(hp);  
menu.add(adm);  
menu.add(dml);  
menu.add(shm);
```

```
JPanel cenp=new JPanel();  
cenp.setBackground(Color.white);  
cenp.setLayout(null);  
JLabel meml=new JLabel("Member Id: ");  
meml.setBounds(50,50,100,20);
```

```

    JTextField memt=new JTextField();

    memt.setBounds(170,50,100,20);

    JButton delB=new JButton("Delete");

    delB.setBounds(300,50,100,20);


    f.add(cenp, BorderLayout.CENTER);


    cenp.add(meml);
    cenp.add(memt);
    cenp.add(delB);
    delB.addActionListener(e->{
        try {
            Class.forName("oracle.jdbc.driver.OracleDriver");

            Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:NAMAN","sco
tt","tiger");

            PreparedStatement pst=con.prepareStatement("delete from members
where memberid=?");

            pst.setString(1, memt.getText());

            int i=JOptionPane.showConfirmDialog(null, "Are you
sure?","Confirm",JOptionPane.YES_NO_OPTION);

            if(i==0) {

                ResultSet rs=pst.executeQuery();

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

            }

        } catch (ClassNotFoundException ex) {

            Logger.getLogger(DelMem.class.getName()).log(Level.SEVERE, null, ex);

        } catch (SQLException ex) {

```

```
        Logger.getLogger(DelMem.class.getName()).log(Level.SEVERE, null, ex);
    }
});
}
}
```

```
class ShowMem{
    JFrame f;
    JPanel menu,cen;
    JButton adm,dlm,shm,altc,hp,b1,b2,b3,b4;
    JLabel meml;
    JTextField memt;
    public ShowMem(){
        f=new JFrame("Show Members");
        f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        f.setVisible(true);
        f.setBounds(300,0,900,600);
        f.setLayout(new BorderLayout());
        menu=new JPanel();
        menu.setBackground(Color.DARK_GRAY);
        menu.setLayout(new FlowLayout());
        f.add(menu,BorderLayout.NORTH);
        hp=new JButton("Home Page");
        adm=new JButton("Add Members");
        dlm=new JButton("Delete Members");
        shm=new JButton("Show Members");
        altc=new JButton("Do Changes");
```

```
hp.addActionListener(e->{  
    new HomeP();  
});
```

```
adm.addActionListener(e->{  
    new AddMem();  
});
```

```
dln.addActionListener(e->{  
    new DelMem();  
});
```

```
shm.addActionListener(e->{  
    new ShowMem();  
});
```

```
altc.addActionListener(e->{  
    new AlterMem();  
});
```

```
menu.add(hp);  
menu.add(adm);  
menu.add(dln);  
menu.add(shm);
```

```
meml=new JLabel("Mem Id: ");  
meml.setBounds(100,100,100,20);
```



```

ment=new JTextField();

ment.setBounds(150,100,100,20);

JButton ShB=new JButton("Show");

ShB.setBounds(300,100,100,20);


cen=new JPanel();

cen.setBackground(Color.white);

cen.setLayout(null);


ShB.addActionListener(e->{

    try {

        Class.forName("oracle.jdbc.driver.OracleDriver");

        Connection
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:NAMAN","sco
tt","tiger");

        if(ment.getText().equals("")){

            PreparedStatement pst=con.prepareStatement("select * from members
where clubid=?");

            pst.setString(1, loginP.unt.getText());

            ResultSet rs=pst.executeQuery();

            DefaultTableModel model=new DefaultTableModel();

            String[] col={"ID","Name","Designation","E-mail","Contact"};

            model.setColumnIdentifiers(col);

            JTable table=new JTable();

            table.setModel(model);

            table.setAutoResizeMode(JTable.AUTO_RESIZE_ALL_COLUMNS);

            table.setFillsViewportHeight(true);

            JScrollPane scroll = new JScrollPane(table);

```

```
scroll.setHorizontalScrollBarPolicy(  
JScrollPane.HORIZONTAL_SCROLLBAR_AS_NEEDED);  
scroll.setVerticalScrollBarPolicy(  
JScrollPane.VERTICAL_SCROLLBAR_AS_NEEDED);
```

```
String mid="";
```

```
String n="";
```

```
String em="";
```

```
String ph="";
```

```
String des="";
```

```
int i=0;
```

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

```
    mid=rs.getString("memberid");
```

```
    System.out.println(rs.getString(1));
```

```
    System.out.println("dhviuso");
```

```
    n=rs.getString("membername");
```

```
    em=rs.getString("email");
```

```
    ph=rs.getString("phone");
```

```
    des=rs.getString("designation");
```

```
    model.addRow(new Object[]{mid,n,des,em,ph});
```

```
    i++;
```

```
}
```

```
if(i<1){
```

```
    JOptionPane.showMessageDialog(null, "No entries found");
```

```
}
```

```
JFrame f1=new JFrame("Output");
```

```

        f1.add(scroll);

        f1.setVisible(true);

        f1.setBounds(200,0,500,500);

        pst.close();

        con.close();
    }

    else {

        PreparedStatement pst=con.prepareStatement("Select * from members
where memberid=?");

        pst.setString(1, memt.getText());

        ResultSet rs=pst.executeQuery();

        DefaultTableModel model=new DefaultTableModel();

        String[] col={"ID","Name","Designation","E-mail","Contact"};

        model.setColumnIdentifiers(col);

        JTable table=new JTable(model);

        table.setAutoResizeMode(JTable.AUTO_RESIZE_ALL_COLUMNS);

        table.setFillsViewportHeight(true);

        JScrollPane scroll = new JScrollPane(table);

        scroll.setHorizontalScrollBarPolicy(
        JScrollPane.HORIZONTAL_SCROLLBAR_AS_NEEDED);

        scroll.setVerticalScrollBarPolicy(
        JScrollPane.VERTICAL_SCROLLBAR_AS_NEEDED);

        String mid="";

        String n="";

        String em="";

        String ph="";

        String des="";

```

```

        if(rs.next()){
            mid=rs.getString("memberid");
            n=rs.getString("MemberName");
            em=rs.getString("Email");
            ph=rs.getString("phone");
            des=rs.getString("Designation");
            model.addRow(new Object[]{mid,n,des,em,ph});
        }

        JFrame f1=new JFrame("Output");
        f1.add(scroll);
        f1.setVisible(true);
        f1.setBounds(200,0,500,500);
    }
} catch (ClassNotFoundException ex) {
    Logger.getLogger(ShowMem.class.getName()).log(Level.SEVERE, null, ex);
} catch (SQLException ex) {
    Logger.getLogger(ShowMem.class.getName()).log(Level.SEVERE, null, ex);
}
});

f.add(cen, BorderLayout.CENTER);

cen.add(meml);
cen.add(memt);
cen.add(ShB);

```

```

    }
}

class AlterMem{

    JFrame f;

    JPanel menu;

    JButton adm,dlm,shm,altc,hp,b1,b2,b3,b4;

    public AlterMem(){

        f=new JFrame("Alter Members");

        f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

        f.setVisible(true);

        f.setBounds(300,0,900,600);

        f.setLayout(new BorderLayout());

        menu=new JPanel();

        menu.setLayout(new FlowLayout());

        f.add(menu,BorderLayout.NORTH);

        hp=new JButton("Home Page");

        adm=new JButton("Add Members");

        dlm=new JButton("Delete Members");

        shm=new JButton("Show Members");

        altc=new JButton("Do Changes");

        hp.addActionListener(e->{

            new HomeP();

```

```
});
```

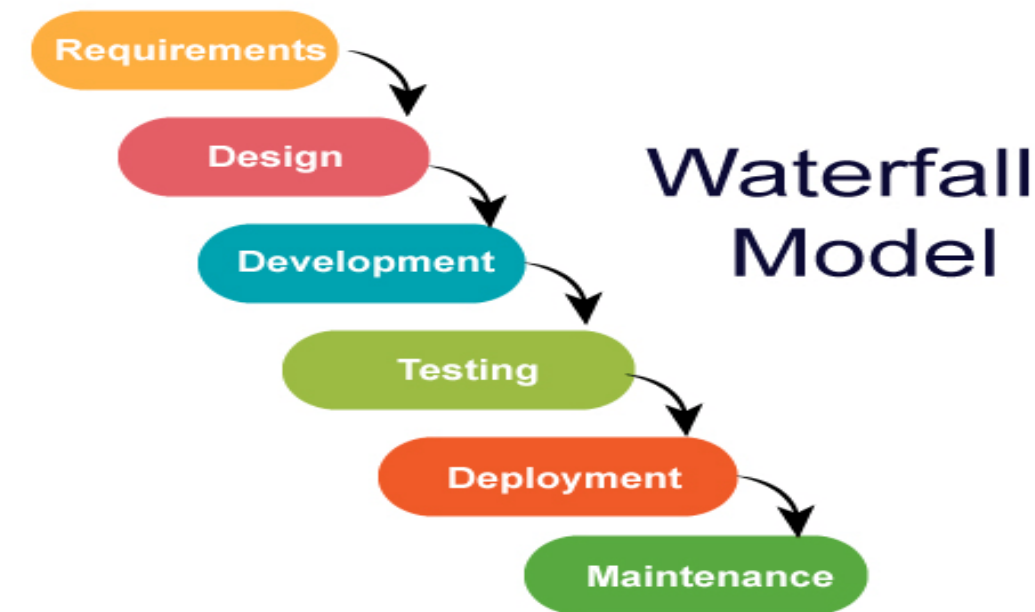
```
adm.addActionListener(e->{  
    new AddMem();  
});
```

```
dln.addActionListener(e->{  
    new DelMem();  
});
```

```
shm.addActionListener(e->{  
    new ShowMem();  
});
```

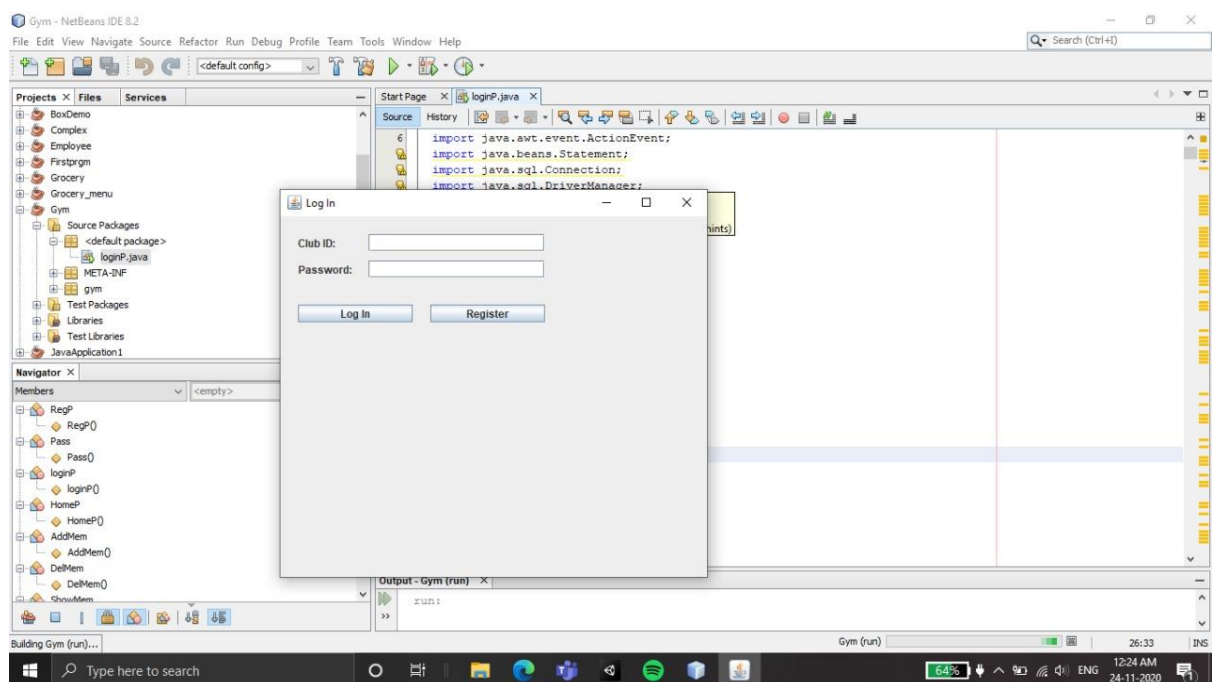
```
altc.addActionListener(e->{  
    new AlterMem();  
});
```

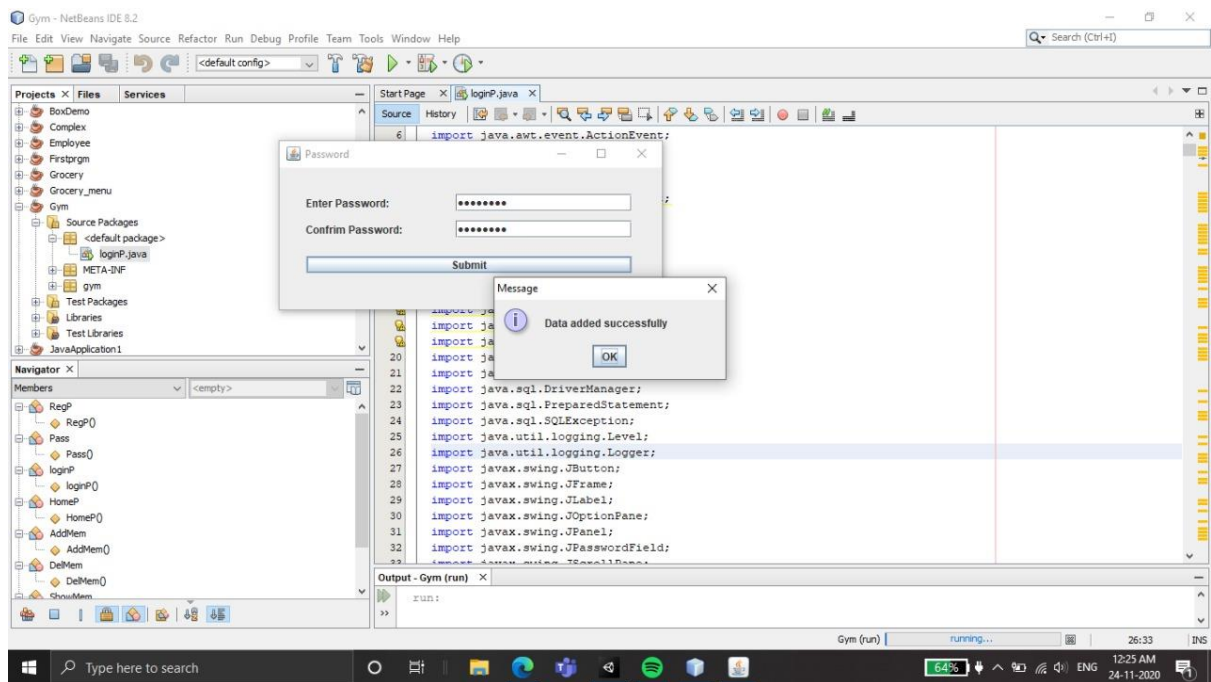
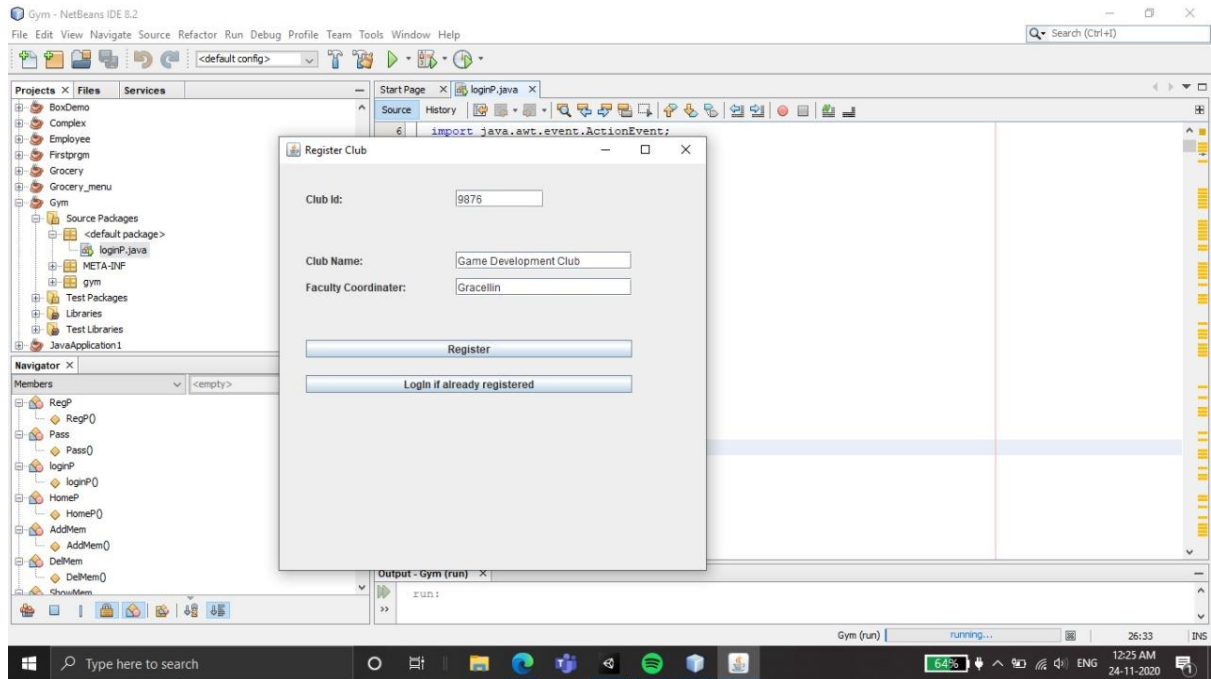
```
menu.add(hp);  
menu.add(adm);  
menu.add(dln);  
menu.add(shm);  
menu.add(altc);  
}  
}
```



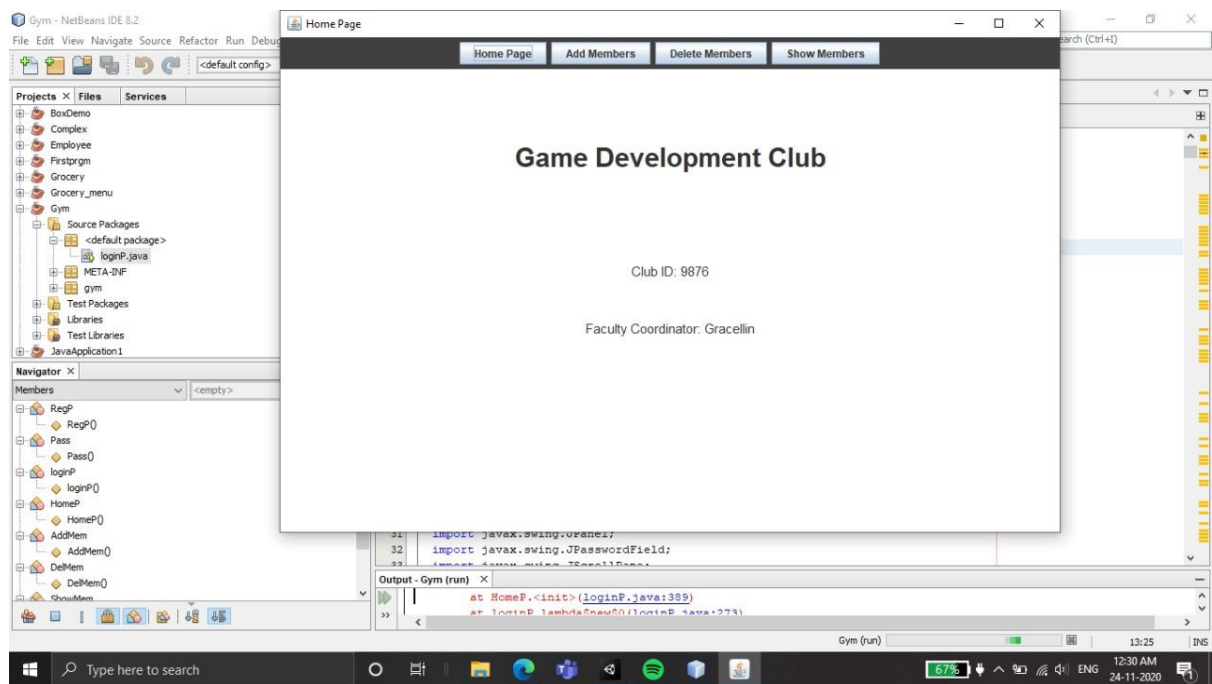
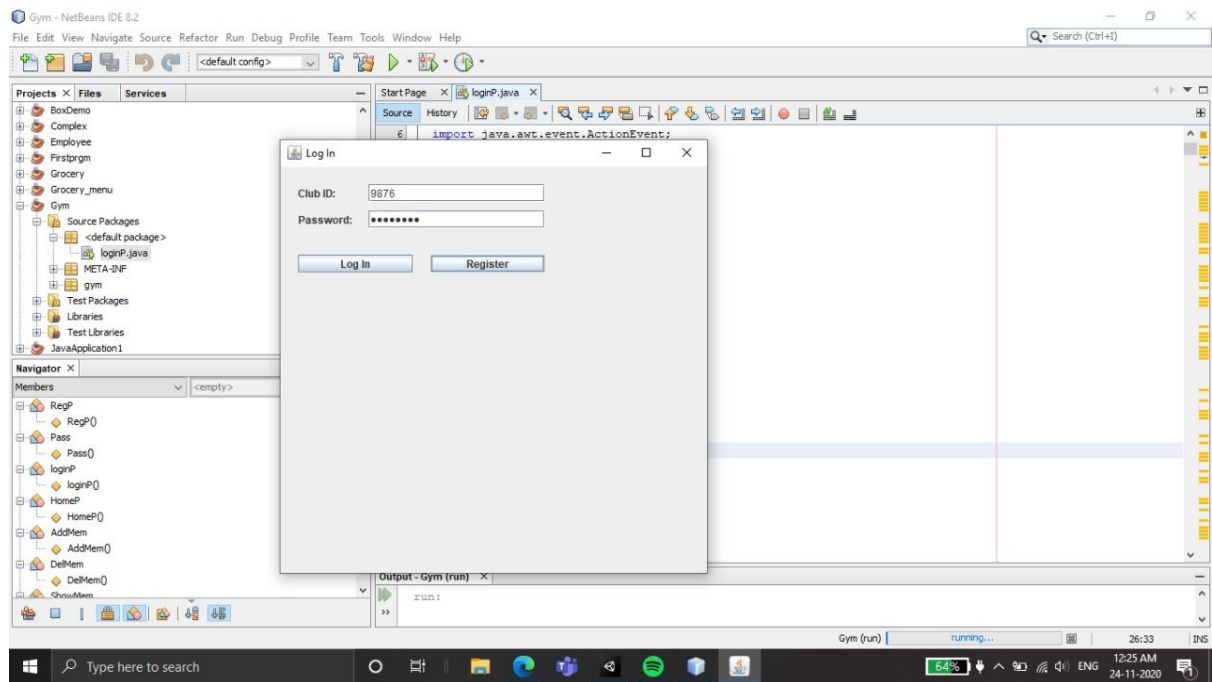
The model used in developing the Club management system is waterfall model.

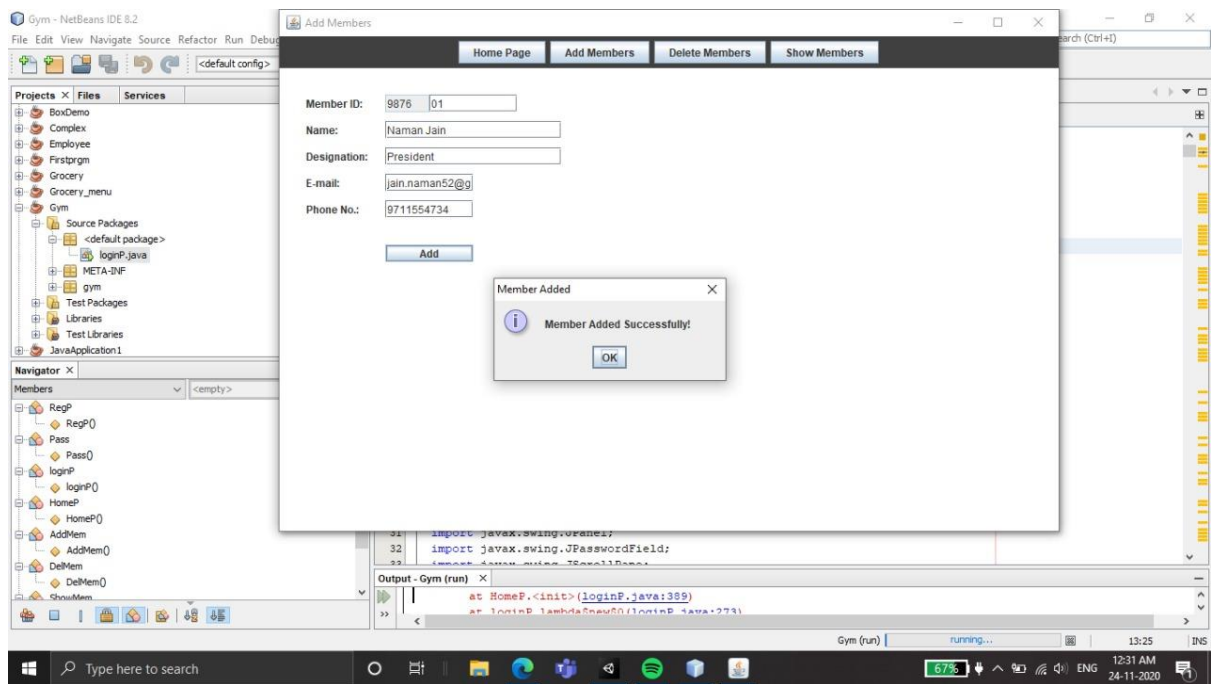
## Output:

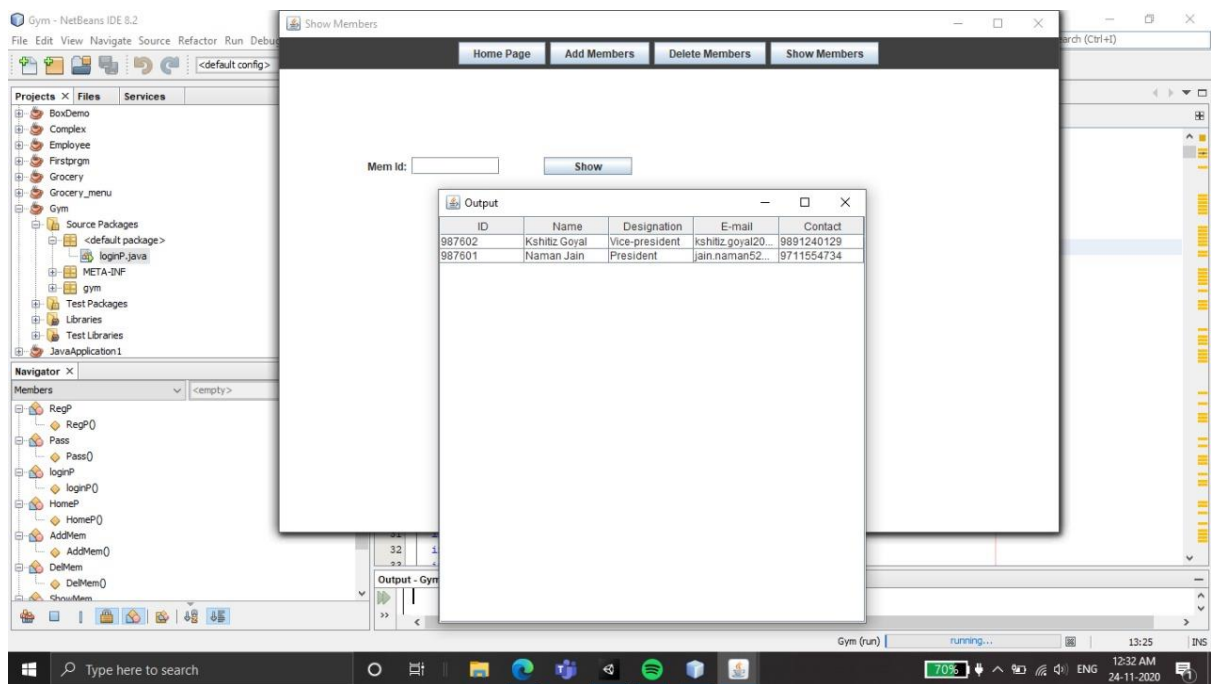
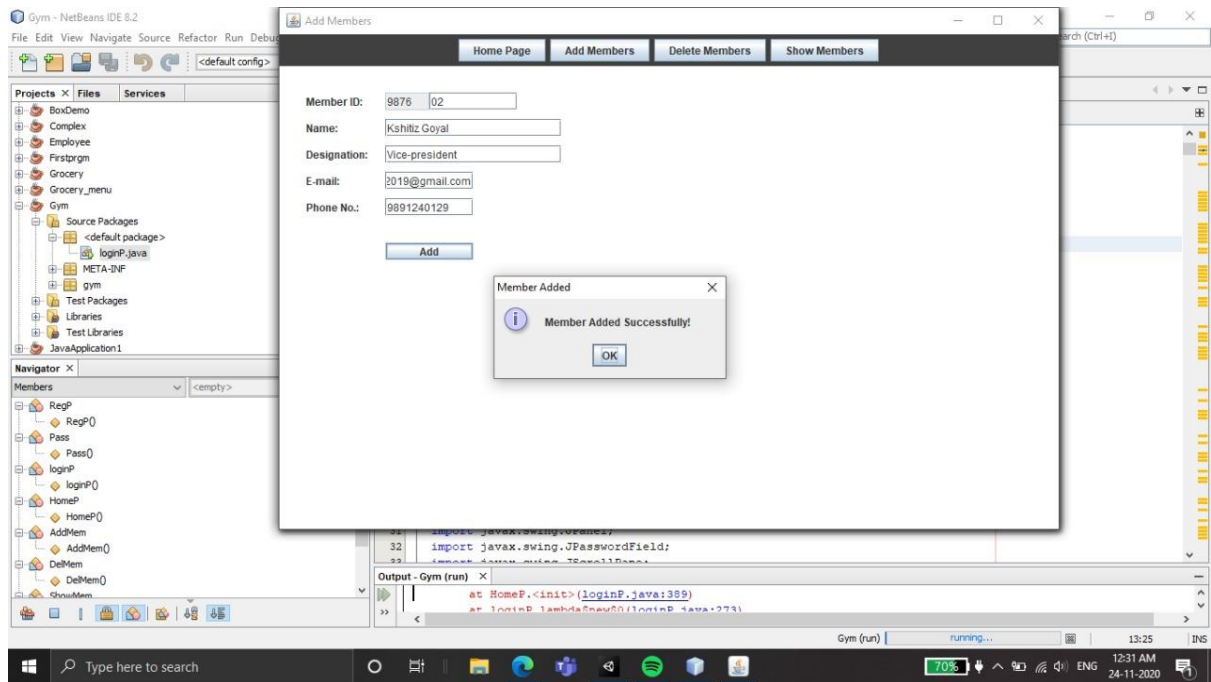


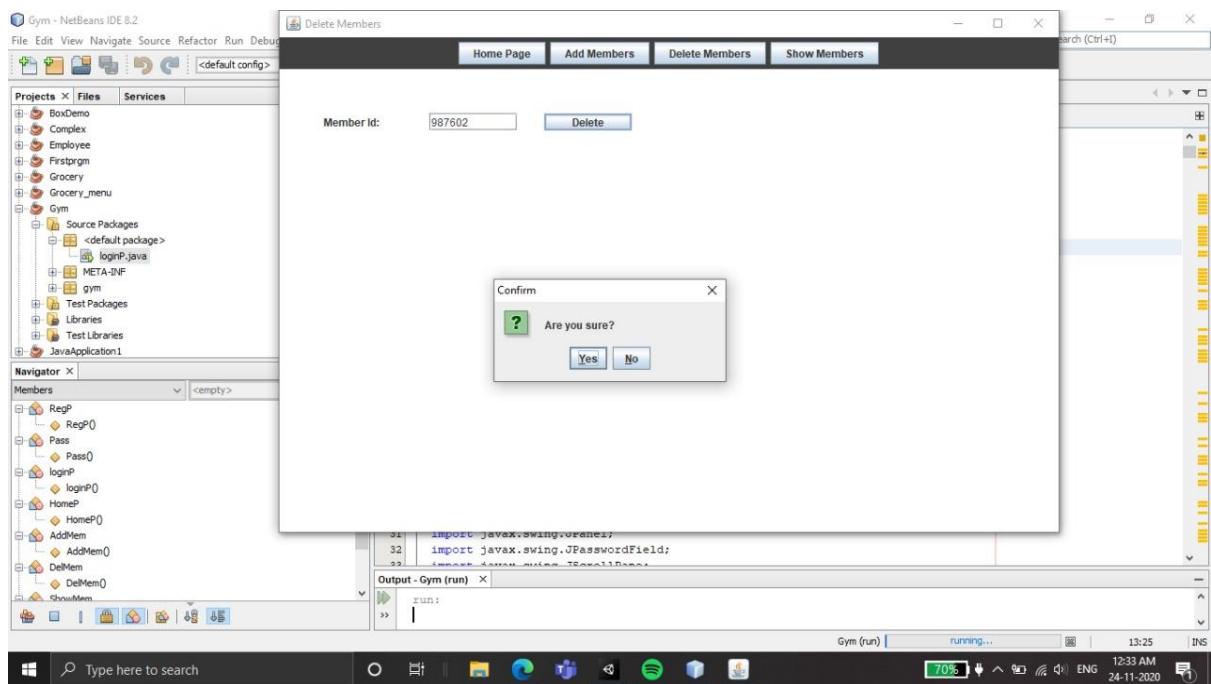
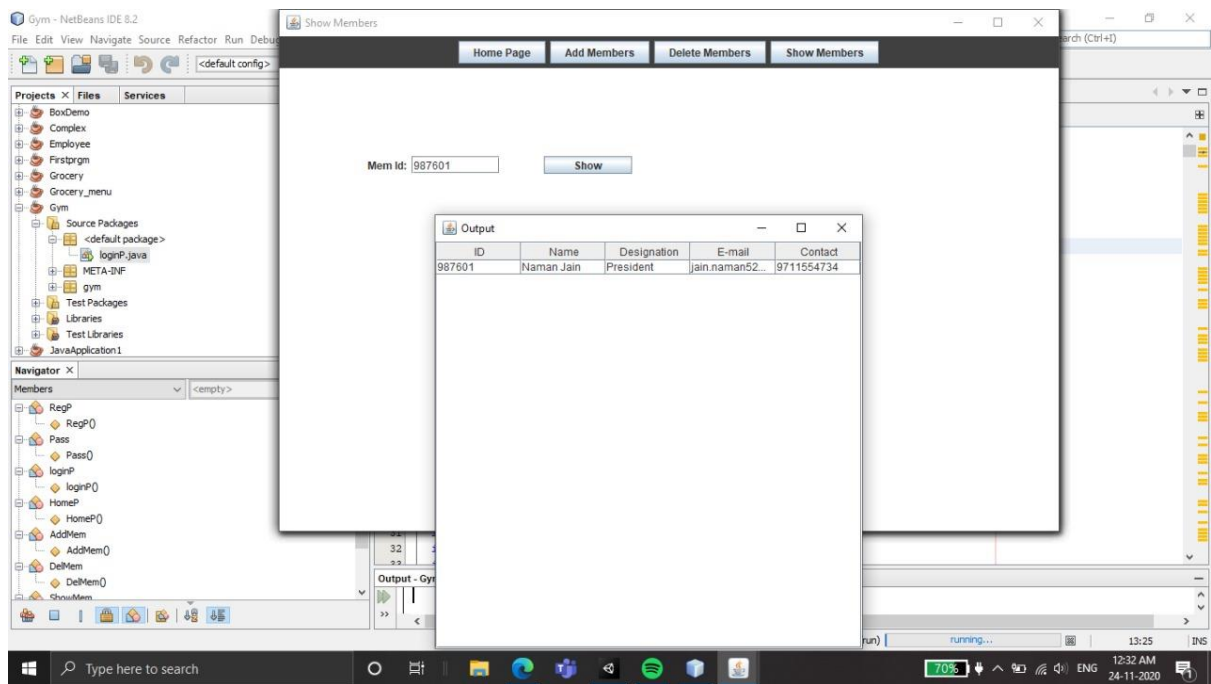


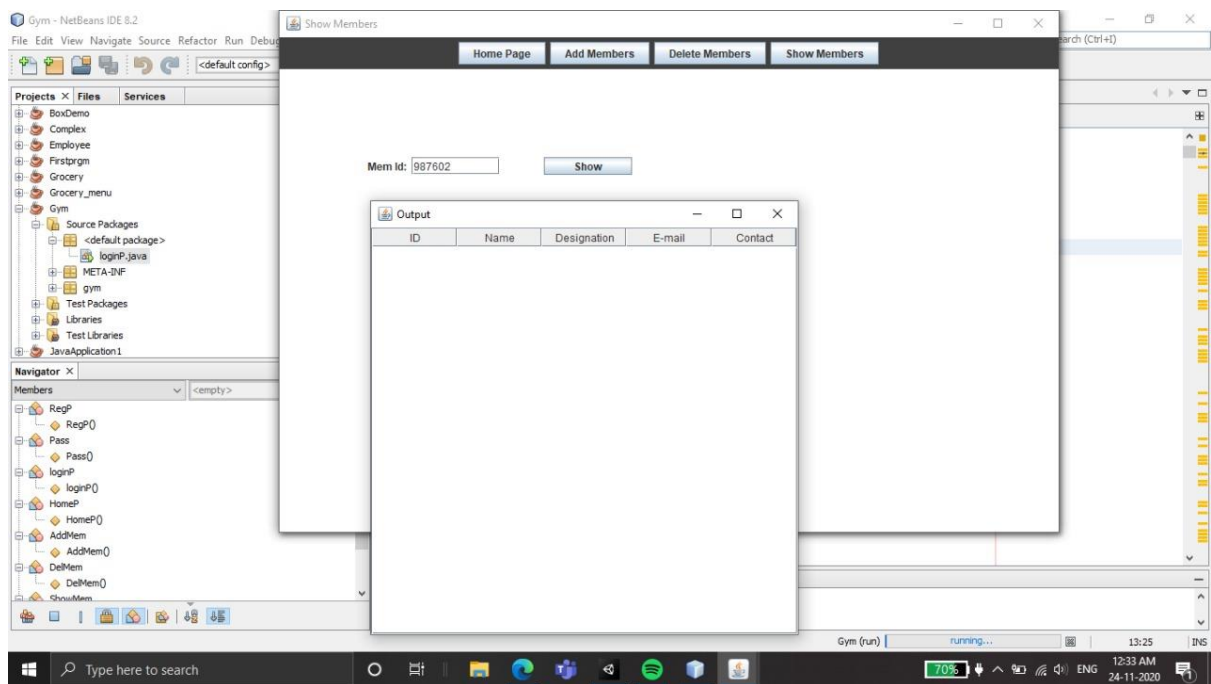
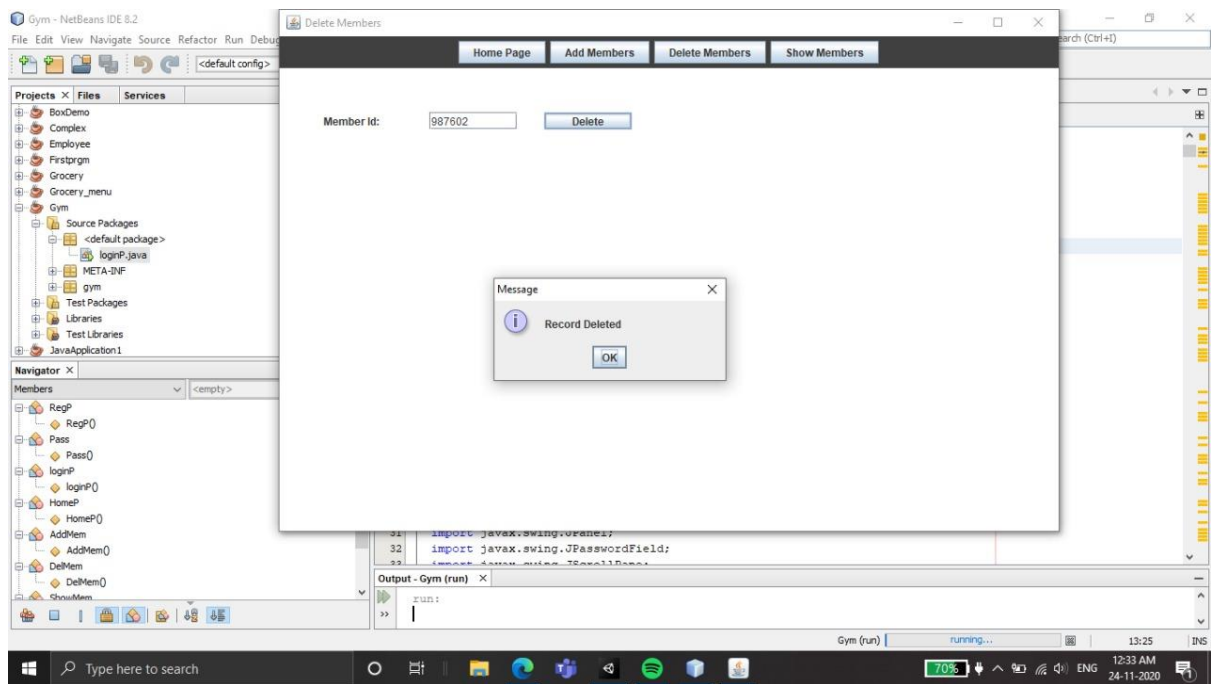












## **Result and Analysis:**

We designed and implemented a Club management system using JAVA which can manage all types of clubs operating under a organization and save a lot of time and money which would have been spent on different management systems for each and every club.

## **System Analysis:**

**Memory constraints:** There may be some memory constraints due to advance detailed database, which has many primary, foreign, unique keys and large datasets.

**Software interfaces:** Frontend is in Advanced JAVA and Backend is in Oracle , interface is through ODBC controller.

**System features:** Simple GUI, easy to use, no special training required, cost should be feasible, protected through authentication process

**Major concepts used:** We have linked our frontend and backend software using ADODB Connection. We have used data environment and data reports in our project. We have used modules to make certain variables accessible globally.

We can make this project more advanced by adding event management part to this project for each and every event that is held by clubs which will contain the details of the event like venue, date, club organising it, the details of the participants, etc.

## **Conclusion:**

The project entitled as **Club Management System** is the system that deals with the issues related to all the clubs under a institution.

- This project is successfully implemented with all the features mentioned.
- The application provides appropriate information to users according to the chosen service.
- The project is designed keeping in view the day to day problems faced in managing clubs by the admin.
- Deployment of our application will certainly help the organization to reduce unnecessary wastage of time and money in managing each club on different management systems.

## **References:**

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