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| **PROFESSIONET CONSULTANCY SERVICE (PCS) APPLICATION** |

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| **PROFESSIONET CONSULTANCY SERVICE (PCS) APPLICATION** |

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| Certifiacte  This is to certify that this report,titled Professionet consultancy  Embodies the original work done by Nagaram Bhavani in partial  fultillment of her course requirement at NIIT |

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ABSTRACT

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| This Project is application of Professinate Consultancy Services (PCS) to To Maintain Organization details to Manage and update a particular employee or group of employees.To Maintain and manage required data, Here we are using java ,AWT ,SQL.To make User Interactive |

INTRODUCTION

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| This Project is application of Professinate Consultancy Services (PCS) to To Maintain Organization details to Manage and update a particular employee or group of employees.To Maintain and manage required data, Here we are using java ,AWT ,SQL.To make User Interactive  Here we are Using java to develop a GUI program.Core java is used. AWT User Interface Components Such JFrame,JLabel,JCheckBox,JRadioButton..etc.  Employee form details to Register,login and update a particular employee or group of employees.here we have a special blocks – Activate user,HRA,EMP  And PME.Special blocks to update or apply the required implementation  details. |

SYSTEM REQUREMENTS:

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| --- |
| **SOFTWARE REQUIREMENTS:**  Operating System : Windows 8/10 or Linux (Any OS)  User Interface : AWT  Programming Language : Java  IDE/Workbench : My Eclipse 8.6  Database : Sql  **HARWARE REQUIREMENTS:**  Processor : Intel core i3 or above  Hard Disk : 500GB or more  RAM : 8GB or more |

IMPLEMENTATION

Java has been one of the most popular programming language for many years.

Java is Object Oriented. However it is not considered as pure object oriented as it provides support for primitive data types (like int, char, etc).The Java codes are first compiled into byte code (machine independent code). Then the byte code is run on **J**ava **V**irtual **M**achine (JVM) regardless of the underlying architecture.

Java syntax is similar to C/C++. But Java does not provide low level programming functionalities like pointers. Also, Java codes are always written in the form of classes and objects.

Java is used in all kind of applications like Mobile Applications (Android is Java based), desktop applications, web applications, client server applications, enterprise applications and many more.

When compared with C++, Java codes are generally more maintainable because Java does not allow many things which may lead bad/inefficient programming if used incorrectly. For example, non-primitives are always references in Java. So we cannot pass large objects (like we can do in C++) to functions, we always pass references in Java. One more example, since there are no pointers, bad memory access is also not possible.

Each UI component has its place on the interface. The location of a component is determined by the class used to layout the components.

So far, we have covered the basic programming constructs (such as variables, data types, decision, loop, array and method) and introduced the important concept of Object-Oriented Programming (OOP). As discussed, OOP permits higher level of abstraction than traditional Procedural-Oriented languages (such as C and Pascal). You can create high-level abstract data types called *classes* to mimic real-life things. These classes are self-contained and are *reusable*.

In this article, I shall show you how you can *reuse* the graphics classes provided in JDK for constructing your own Graphical User Interface (GUI) applications. Writing your own graphics classes (and re-inventing the wheels) is mission impossible! These graphics classes, developed by expert programmers, are highly complex and involve many advanced *design patterns*.  However, re-using them are not so difficult, if you follow the API documentation, samples and templates provided.

I shall assume that you have a good grasp of OOP, including composition, inheritance, polymorphism, abstract class and interface; otherwise, read the earlier articles. I will describe another important OO concept called *nested class* (or *inner class*) in this article.

There are current two sets of Java APIs for graphics programming: AWT (Abstract Windowing Toolkit), Swing

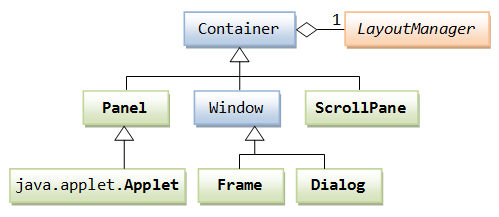
1. AWT API was introduced in JDK 1.0. Most of the AWT components have become obsolete and should be replaced by newer Swing components.
2. Swing API, a much more comprehensive set of graphics libraries that enhances the AWT, was introduced as part of Java Foundation Classes (JFC) after the release of JDK 1.1. JFC consists of Swing, Java2D, Accessibility, Internationalization, and Pluggable Look-and-Feel Support APIs. JFC has been integrated into core Java since JDK 1.2.

AWT

AWT is huge! It consists of 12 packages of 370 classes (Swing is even bigger, with 18 packages of 737 classes as of JDK 8). Fortunately, only 2 packages - java.awt and java.awt.event - are commonly-used.

1. The java.awt package contains the *core* AWT graphics classes:
   * GUI Component classes, such as Button, TextField, and Label.
   * GUI Container classes, such as Frame and Panel.
   * Layout managers, such as FlowLayout, BorderLayout and GridLayout.
   * Custom graphics classes, such as Graphics, Color and Font.
2. The java.awt.event package supports event handling:
   * Event classes, such as ActionEvent, MouseEvent, KeyEvent and WindowEvent,
   * Event Listener Interfaces, such as ActionListener, MouseListener, MouseMotionListener, KeyListener and WindowListener,
   * Event Listener Adapter classes, such as MouseAdapter, KeyAdapter, and WindowAdapter.

AWT provides a *platform-independent* and *device-independent* interface to develop graphic programs that runs on all platforms, including Windows, Mac OS X, and Unixes.



CODING

**package** model;

**public** **class** Employee {

**private** **int** employeeid;

**private** String firstName;

**private** String lastName;

**private** String email;

**private** String userId;

**private** String password;

**private** String gender;

**private** String role;

**private** String active;

**private** String Skill;

**public** Employee() {

**super**();

}

**public** Employee(**int** employeeid, String firstName, String lastName, String email, String userId, String password,

String gender, String role, String active) {

**super**();

**this**.employeeid = employeeid;

**this**.firstName = firstName;

**this**.lastName = lastName;

**this**.email = email;

**this**.userId = userId;

**this**.password = password;

**this**.gender = gender;

**this**.role = role;

**this**.active = active;

}

**public** **int** getEmployeeid() {

**return** employeeid;

}

**public** **void** setEmployeeid(**int** employeeid) {

**this**.employeeid = employeeid;

}

**public** String getFirstName() {

**return** firstName;

}

**public** **void** setFirstName(String firstName) {

**this**.firstName = firstName;

}

**public** String getLastName() {

**return** lastName;

}

**public** **void** setLastName(String lastName) {

**this**.lastName = lastName;

}

**public** String getEmail() {

**return** email;

}

**public** **void** setEmail(String email) {

**this**.email = email;

}

**public** String getUserId() {

**return** userId;

}

**public** **void** setUserId(String userId) {

**this**.userId = userId;

}

**public** String getPassword() {

**return** password;

}

**public** **void** setPassword(String password) {

**this**.password = password;

}

**public** String getGender() {

**return** gender;

}

**public** **void** setGender(String gender) {

**this**.gender = gender;

}

**public** String getRole() {

**return** role;

}

**public** **void** setRole(String role) {

**this**.role = role;

}

**public** String getActive() {

**return** active;

}

**public** **void** setActive(String active) {

**this**.active = active;

}

**public** String getSkill() {

**return** Skill;

}

**public** **void** setSkill(String skill) {

Skill = skill;

}

@Override

**public** String toString() {

**return** "Employee [employeeid=" + employeeid + ", firstName=" + firstName + ", lastName=" + lastName + ", email="

+ email + ", userId=" + userId + ", password=" + password + ", gender=" + gender + ", role=" + role

+ ", active=" + active + "]";

}

**public** Employee(String firstName, String lastName, String email, String userId, String password, String gender,

String role, String active) {

**super**();

**this**.firstName = firstName;

**this**.lastName = lastName;

**this**.email = email;

**this**.userId = userId;

**this**.password = password;

**this**.gender = gender;

**this**.role = role;

**this**.active = active;

}

}

package controller;

import java.util.List;

import dao.iEmployeeDao;

import daoImpl.iEmployeeDaoImp;

import model.Employee;

public class EmployeeController {

iEmployeeDao empDao=null;

public EmployeeController() {

empDao=new iEmployeeDaoImp();

}

public Employee checkLogin(String userId, String password) {

Employee emp = empDao.checkLogin(userId, password);

return emp;

}

public List<Employee> getAllEmployees(){

List<Employee> empList=empDao.getAllEmployees();

return empList;

}

public void addEmployee(Employee emp) {

empDao.addEmployee(emp);

}

public Employee getEmployeeById(int id) {

Employee emp=empDao.getEmployeeById(id);

return emp;

}

public void updateEmployee(Employee emp) {

empDao.updateEmployee(emp);

}

public void deleteEmployee(int id) {

empDao.deleteEmployee(id);

}

public void deactivateEmployee(Employee emp) {

empDao.deactivateEmployee(emp);

}

public void activateEmployee(Employee emp) {

empDao.activateEmployee(emp);

}

}package dao;

import java.util.\*;

import model.Employee;

public interface iEmployeeDao {

List<Employee> getAllEmployees();

void addEmployee(Employee emp);

Employee getEmployeeById(int id);

void updateEmployee(Employee emp);

void deactivateEmployee(Employee emp);

void activateEmployee(Employee emp);

void deleteEmployee(int id);

Employee checkLogin(String userId, String password);

}

**package** config;

**import** java.sql.\*;

**public** **class** JDBCConnection {

**static** String *url*="jdbc:mysql://localhost:3306/pcsdb";

**static** String *username*="root";

**static** String *password*="Niit@123";

**static** Connection *conn*=**null**;

**public** **static** Connection getDBConnection() {

**try** {

Class.*forName*("com.mysql.jdbc.Driver"); // Loading driver

*conn*=DriverManager.*getConnection*(*url*, *username*, *password*);

}

**catch**(ClassNotFoundException ex) {

System.***out***.println(ex);

}

**catch**(SQLException ex) {

System.***out***.println(ex);

}

**return** *conn*;

}

}

package daoImpl;

import java.sql.\*;

import java.util.ArrayList;

import java.util.List;

import config.JDBCConnection;

import dao.iEmployeeDao;

import model.Employee;

public class iEmployeeDaoImp implements iEmployeeDao {

Connection conn=null;

public iEmployeeDaoImp() {

conn=JDBCConnection.getDBConnection();

}

public Employee checkLogin(String userId,String password) {

Employee emp = new Employee();

try {

String query ="select \* from Employee where userId=? and password=?";

PreparedStatement pst = conn.prepareStatement("");

pst.setString(1, userId);

pst.setString(2, password);

ResultSet rst=pst.executeQuery();

if(rst!=null) {

if(rst.next()) {

emp.setEmployeeid(rst.getInt(1));

emp.setFirstName(rst.getString(2));

emp.setLastName(rst.getString(3));

emp.setEmail(rst.getString(3));

emp.setUserId(rst.getString(3));

emp.setPassword(rst.getString(3));

emp.setRole(rst.getString(3));

emp.setGender(rst.getString(3));

emp.setActive(rst.getString(3));

}

}

}catch(SQLException ex) {

System.out.println(ex);

}

return emp;

}

@Override

public List<Employee> getAllEmployees() {

List<Employee> empList=new ArrayList<Employee>();

try {

String query="select \* from Employee";

Statement stmt=conn.createStatement();

ResultSet rst=stmt.executeQuery(query);

if(rst!=null) {

while(rst.next()) {

Employee emp=new Employee();

emp.setEmployeeid(rst.getInt(1));

emp.setFirstName(rst.getString(2));

emp.setLastName(rst.getString(3));

emp.setEmail(rst.getString(4));

emp.setUserId(rst.getString(5));

emp.setPassword(rst.getString(6));

emp.setRole(rst.getString(7));

emp.setGender(rst.getString(8));

emp.setActive(rst.getString(9));

empList.add(emp);

}

}

}catch(SQLException ex) {

System.out.println(ex);

}

return empList;

}

@Override

public void addEmployee(Employee emp) {

try {

String query="insert into Employee(FirstName, LastName, Email, UserId, Password, Role, Gender, Active) values(?,?,?,?,?,?,?,?)";

PreparedStatement pst=conn.prepareStatement(query);

pst.setString(1,emp.getFirstName());

pst.setString(2,emp.getLastName());

pst.setString(3,emp.getEmail());

pst.setString(4,emp.getUserId());

pst.setString(5,emp.getPassword());

pst.setString(6,emp.getRole());

pst.setString(7,emp.getGender());

pst.setString(8,emp.getActive());

int i=pst.executeUpdate();

if(i==1) {

System.out.println("1 record inserted...");

}

else {

System.out.println("Insertion failed...");

}

}catch(SQLException ex) {

System.out.println(ex);

}

}

@Override

public Employee getEmployeeById(int id) {

Employee emp=new Employee();

try {

String query="select \* from Employee where EmployeeId=?";

PreparedStatement pst=conn.prepareStatement(query);

pst.setInt(1,id);

ResultSet rst=pst.executeQuery();

if(rst!=null) {

while(rst.next()) {

emp.setEmployeeid(rst.getInt(1));

emp.setFirstName(rst.getString(2));

emp.setLastName(rst.getString(3));

emp.setEmail(rst.getString(4));

emp.setUserId(rst.getString(5));

emp.setPassword(rst.getString(6));

emp.setRole(rst.getString(7));

emp.setGender(rst.getString(8));

emp.setActive(rst.getString(9));

}

}

}catch(SQLException ex) {

System.out.println(ex);

}

return emp;

}

@Override

public void updateEmployee(Employee emp) {

try {

String query = "UPDATE Employee SET password=?, email=? WHERE EmployeeId=?";

PreparedStatement statement = conn.prepareStatement(query);

statement.setString(1, emp.getPassword());

statement.setString(2, emp.getEmail());

statement.setInt(3,emp.getEmployeeid());

int rowsUpdated = statement.executeUpdate();

if (rowsUpdated > 0) {

System.out.println("An existing user was updated successfully!");

}

else {

System.out.println("updation failed...");

}

}catch(SQLException ex) {

System.out.println(ex);

}

}

@Override

public void deactivateEmployee(Employee emp) {

try {

//creating PreparedStatement object by passing query string

PreparedStatement pst=conn.prepareStatement("update Employee set Active=? where EmployeeId=?");

pst.setString(1, "Deactive");

pst.setInt(2, emp.getEmployeeid());

int i=pst.executeUpdate();

if(i==1){

System.out.println("Employee deactivated...");

}

else {

System.out.println("updation failed...");

}

}

catch(SQLException ex) {

System.out.println(ex.getMessage());

}

}

@Override

public void activateEmployee(Employee emp) {

try {

//creating PreparedStatement object by passing query string

PreparedStatement pst=conn.prepareStatement("update Employee set Active=? where EmployeeId=?");

pst.setString(1, "Active");

pst.setInt(2, emp.getEmployeeid());

int i=pst.executeUpdate();

if(i==1){

System.out.println("Employee Activated...");

}

else {

System.out.println("updation failed...");

}

}

catch(SQLException ex) {

System.out.println(ex.getMessage());

}

}

@Override

public void deleteEmployee(int id) {

try {

//creating PreparedStatement object by passing query string

PreparedStatement pst=conn.prepareStatement("delete from Employee where EmployeeId=?");

pst.setInt(1, id);

int i=pst.executeUpdate();

if(i==1){

System.out.println("Employee deleted...");

}

else {

System.out.println("deletion failed...");

}

}

catch(SQLException ex) {

System.out.println(ex.getMessage());

}

}

}

package excDao;

import java.util.Iterator;

import java.util.List;

import java.io.\*;

import controller.EmployeeController;

import model.Employee;

public class EmployeeExec {

EmployeeController empController=null;

public EmployeeExec() {

empController=new EmployeeController();

}

public void getAllEmployees() {

List<Employee> empList=empController.getAllEmployees();

for(Employee emp:empList) {

System.out.println(emp);

}

}

public void getEmployeeById() throws NumberFormatException, IOException {

int id=0;

try {

BufferedReader reader=new BufferedReader(new InputStreamReader(System.in));

System.out.println("Enter employee id whose record you want to view:");

id=Integer.parseInt(reader.readLine());

}

catch(IOException ex){

System.out.println(ex);

}

Employee emp=empController.getEmployeeById(id);

System.out.println(emp);

}

public void addEmployee() {

Employee emp=new Employee();

try {

BufferedReader reader=new BufferedReader(new InputStreamReader(System.in));

System.out.println("Enter Employee Detail:");

System.out.println("First Name:");

emp.setFirstName(reader.readLine());

System.out.println("Last Name:");

emp.setLastName(reader.readLine());

System.out.println("Email:");

emp.setEmail(reader.readLine());

System.out.println("User Id:");

emp.setUserId(reader.readLine());

System.out.println("Password:");

emp.setPassword(reader.readLine());

System.out.println("Role:");

String role=reader.readLine();

emp.setRole(role);

System.out.println("Gender:");

emp.setGender(reader.readLine());

if(role.equals("HRA")) {

emp.setActive("Active");

}

else {

emp.setActive("Deactive");

}

}catch(IOException ex){

System.out.println(ex);

}

empController.addEmployee(emp);

}

public void updateEmployee() {

try {

BufferedReader reader=new BufferedReader(new InputStreamReader(System.in));

int id;

String email, password, confirmpassword;

System.out.println("Enter EmployeeId whose record you want to update:");

id=Integer.parseInt(reader.readLine());

Employee emp=empController.getEmployeeById(id);

System.out.println("Enter your new email:");

email=reader.readLine();

System.out.println("Enter your new password:");

password=reader.readLine();

System.out.println("Re-enter same password to confirm:");

confirmpassword=reader.readLine();

if(password.equals(confirmpassword)) {

emp.setPassword(password);

emp.setEmail(email);

empController.updateEmployee(emp);

}

else {

System.out.println("Sorry! you have entered different password!");

}

}

catch(IOException ex) {

System.out.println(ex.getMessage());

}

}

public void deactiveEmployee() {

try {

BufferedReader reader=new BufferedReader(new InputStreamReader(System.in));

int id;

System.out.println("Enter EmployeeId whose record you want to deactivate:");

id=Integer.parseInt(reader.readLine());

Employee emp=empController.getEmployeeById(id);

empController.deactivateEmployee(emp);

}

catch(IOException ex) {

System.out.println(ex.getMessage());

}

}

public void activeEmployee() {

try {

BufferedReader reader=new BufferedReader(new InputStreamReader(System.in));

int id;

System.out.println("Enter EmployeeId whose record you want to activate:");

id=Integer.parseInt(reader.readLine());

Employee emp=empController.getEmployeeById(id);

empController.activateEmployee(emp);

}

catch(IOException ex) {

System.out.println(ex.getMessage());

}

}

public void deleteEmployee() {

try {

BufferedReader reader=new BufferedReader(new InputStreamReader(System.in));

int id;

System.out.println("Enter EmployeeId whose record you want to delete:");

id=Integer.parseInt(reader.readLine());

empController.deleteEmployee(id);

}

catch(IOException ex) {

System.out.println(ex.getMessage());

}

}

}package entry;

import java.util.Scanner;

import java.io.IOException;

import java.sql.SQLException;

import config.JDBCConnection;

import excDao.EmployeeExec;

public class TestApp {

public void testConnection() {

try{

if(JDBCConnection.getDBConnection().isClosed()) {

System.out.println("Connection is closed");

}

else {

System.out.println("Connection is opened");

}

}catch(SQLException e) {

e.printStackTrace();

}

}

public void processMenu() {

EmployeeExec obj=new EmployeeExec();

Scanner sc=new Scanner(System.in);

int option=0;

char ch='y';

do {

System.out.println("----------CRUD Operation-----------");

System.out.println("1. View all Employees");

System.out.println("2. View single Employee");

System.out.println("3. Add Employee");

System.out.println("4. Update Employee");

System.out.println("5. Delete Employee");

System.out.println("6. Deactivate Employee");

System.out.println("7. Activate Employee");

System.out.println("8. Quit");

System.out.println("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

System.out.println("Enter your choice:");

option=sc.nextInt();

switch(option) {

case 1:

obj.getAllEmployees();

break;

case 2:

obj.getEmployeeById();

break;

case 3:

obj.addEmployee();

break;

case 4:

obj.updateEmployee();

break;

case 5:

obj.deleteEmployee();

break;

case 6:

obj.deactiveEmployee();

break;

case 7:

obj.activeEmployee();

break;

case 8:

System.exit(0);

break;

default:

System.out.println("Wrong input!");

break;

}

System.out.println("Do you want to continue(y/n)?");

ch=sc.next().charAt(0);

}while(ch=='y' || ch=='Y');

}

public static void main(String[] args) {

TestApp test=new TestApp();

//test.testConnection();

test.processMenu();

}

}

package view;

import java.awt.Container;

import javax.swing.JFrame;

public class ActivateFrame extends JFrame{

Container container;

public ActivateFrame() {

container=getContentPane();

setLayoutManager();

setLocationAndSize();

addComponentsToContainer();

this.setTitle("ACTIVATE EMPLOYEE");

this.setVisible(true);

this.setBounds(10, 10, 500, 700);

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

this.setResizable(false); // fixed size frame

}

public void setLayoutManager() {

container.setLayout(null);

}

public void setLocationAndSize() {

}

public void addComponentsToContainer() {

}

public void callDispose() {

this.dispose();

}

}

package view;

import java.awt.Container;

import javax.swing.JFrame;

public class EmpHomeFrame extends JFrame{

Container container;

public EmpHomeFrame() {

container = getContentPane();

setLayoutManager();

setLocationAndSize();

addComponentsToContainer();

this.setTitle("EMP HOME");

this.setVisible(true);

this.setBounds(10,10,600,700);

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

this.setResizable(false);//fixed size frame

}

public void setLayoutManager() {

container.setLayout(null);

}

public void setLocationAndSize() {

}

public void addComponentsToContainer() {

}

public void callDispose() {

this.dispose();

}

}

**package** view;

**import** java.awt.Container;

**import** java.awt.event.ActionEvent;

**import** java.awt.event.ActionListener;

**import** java.io.BufferedReader;

**import** java.io.IOException;

**import** java.io.InputStreamReader;

**import** model.Employee;

**import** javax.swing.\*;

**import** controller.EmployeeController;

**public** **class** HraHomeFrame **extends** JFrame{

EmployeeController empController=**null**;

Container container;

JButton bLogout, bActivate, bViewAllEmployee, bAddSkill;

**public** HraHomeFrame() {

container=getContentPane();

bLogout=**new** JButton("LOGOUT");

empController=**new** EmployeeController();

bLogout.addActionListener(**new** ActionListener() {

@Override

**public** **void** actionPerformed(ActionEvent arg0) {

callDispose();

**new** LoginFrame();

}

});

bActivate=**new** JButton("ACTIVATE USERS");

bActivate.addActionListener(**new** ActionListener() {

@Override

**public** **void** actionPerformed(ActionEvent e) {

callDispose();

**new** ActivateFrame();

}

});

bViewAllEmployee=**new** JButton("VIEW ALL EMPLOYEES");

bViewAllEmployee.addActionListener(**new** ActionListener() {

@Override

**public** **void** actionPerformed(ActionEvent e) {

callDispose();

empController.getAllEmployees();

}

});

bAddSkill=**new** JButton("ADD SKILL");

bAddSkill.addActionListener(**new** ActionListener() {

**public** **void** actionPerformed(ActionEvent e) {

callDispose();

BufferedReader reader=**new** BufferedReader(**new** InputStreamReader(System.***in***));

**try** {

Employee emp = **null**;

empController.addEmployee(emp);

emp.setSkill(reader.readLine());

} **catch** (IOException e1) {

// **TODO** Auto-generated catch block

e1.printStackTrace();

}

}

});

setLayoutManager();

setLocationAndSize();

addComponentsToContainer();

**this**.setTitle("HRA HOME");

**this**.setVisible(**true**);

**this**.setBounds(10, 10, 500, 700);

**this**.setDefaultCloseOperation(JFrame.***EXIT\_ON\_CLOSE***);

**this**.setResizable(**false**); // fixed size frame

}

**public** **void** setLayoutManager() {

container.setLayout(**null**);

}

**public** **void** setLocationAndSize() {

bActivate.setBounds(100, 100, 300, 30);

bViewAllEmployee.setBounds(100, 140, 300, 30);

bAddSkill.setBounds(100,180 , 300, 30);

bLogout.setBounds(100, 220, 300, 30);

}

**public** **void** addComponentsToContainer() {

container.add(bActivate);

container.add(bViewAllEmployee);

container.add(bAddSkill);

container.add(bLogout);

}

**public** **void** callDispose() {

**this**.dispose();

}

}

package entry;

import view.ActivateFrame;

import view.LoginFrame;

public class RunProject {

public static void main(String[] args) {

new LoginFrame();

//new ActivateFrame();

}

}

some of the code snippets above mentioned…

OUTPUT:

