Java SE Project

Training And Placement Application

***AdminAddNewHRFrame Documentation***

1. **AdminAddNewHrFrame -**

****

**2. STEPS TO BE DONE IN** **AdminAddNewHrFrame**

In the **AdminAddNewHrFrame** we need to do following steps:

1. Displaying the **Username**
2. Allow the user to **logout**
3. Allow the user to **go back**
4. Write code for the "**Add New HR**" Button . When this button is clicked it should:
   1. Generate an **HR-Id**
   2. Display it in the **HR-Id** field.
5. **Displaying The Username**

Same as before

1. **Allowing The User To Logout**

Same as before

1. **Allowing The User To Go Back**

Same as before

1. **Writing Code For Add New HR Button**

**THE TABLE USED IN AdminAddNewHrFrame**

**HR**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| **HRID** | **Varchar2(10)** | **Contains HrId** |
| **PHONE** | **Varchar2(10,0)** | **Contains Phone** |
| **COMPANYNAME** | **Varchar2(30)** | **Contains Company Name** |
| **PROFESSION** | **Varchar2(50)** | **Contains HR’s Field** |

**The HrPOJO Class**

**public class HrPojo {**

**private String hrId;**

**private String hrName;**

**private String phone;**

**private String companyName;**

**private String profession;**

**private String userId;**

**private String password;**

**private String type;**

**public String getHrId() {**

**return hrId;**

**}**

**public void setHrId(String hrId) {**

**this.hrId = hrId;**

**}**

**public String getHrName() {**

**return hrName;**

**}**

**public void setHrName(String hrName) {**

**this.hrName = hrName;**

**}**

**public String getPhone() {**

**return phone;**

**}**

**public void setPhone(String phone) {**

**this.phone = phone;**

**}**

**public String getCompanyName() {**

**return companyName;**

**}**

**public void setCompanyName(String companyName) {**

**this.companyName = companyName;**

**}**

**public String getProfession() {**

**return profession;**

**}**

**public void setProfession(String profession) {**

**this.profession = profession;**

**}**

**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 getType() {**

**return type;**

**}**

**public void setType(String type) {**

**this.type = type;**

**}**

**}**

**WRITING THE CODE FOR BUTTON IN AdminAddNewHrFrame**

**Generating The Hr-Id**

To generate the **Hr-Id** , we use a simple logic:

1. **Find out maximum HRID in the HR Table**
2. **If it comes to be null , then return “Hr-1” as the id**
3. **Otherwise increment the current max id by 1 and return the new id**

**d. For example : If the current max id is Hr-1 then the next id will be Hr-2**

**How To Find Max Id**

To find max id in the **HR** Table we do the following:

1. Create the **HrDAO** class with a method called **getHrId( )**.
2. This method should execute the following SQL query:

***Select max(HrId) from HR;***

and apply the logic mentioned above to get the next id

c. So the prototype of the method is:

**public static int getHrId()throws SQLException**

**The Code For getHrId()**

**public class HrDao {**

**public static int getNewHrId()throws SQLException{**

**Connection conn=DBConnection.getConnection();**

**Statement st=conn.createStatement();**

**ResultSet rs=st.executeQuery("Select max(hrid) from hr");**

**int hrId=101;**

**rs.next();**

**String strid=rs.getString(1);**

**if(strid!=null){**

**String id=strid.substring(3);**

**hrId=Integer.parseInt(id)+1;**

**}**

**return hrId;**

**}**

**The Code For addNewHr()**

**public static int addNewHr(HrPojo hr)throws SQLException{**

**Connection conn=DBConnection.getConnection();**

**PreparedStatement ps=conn.prepareStatement("select userid from users where userid=?");**

**ps.setString(1,hr.getUserId());**

**ResultSet rs=ps.executeQuery();**

**if(rs.next()){**

**return -1;**

**}**

**ps=conn.prepareStatement("insert into users values(?,?,?,?,?)");**

**ps.setString(1, hr.getUserId());**

**ps.setString(2, hr.getHrId());**

**ps.setString(3,hr.getHrName());**

**ps.setString(4,hr.getPassword());**

**ps.setString(5,hr.getType());**

**int x=ps.executeUpdate();**

**int y=0;**

**if(x==1){**

**ps=conn.prepareStatement("insert into hr values(?,?,?,?)");**

**ps.setString(1, hr.getHrId());**

**ps.setString(2, hr.getPhone());**

**ps.setString(3, hr.getCompanyName());**

**ps.setString(4, hr.getProfession());**

**y=ps.executeUpdate();**

**}**

**return y;**

**}**

**The Code For Frame**

**public class AdminAddNewHrFrame extends javax.swing.JFrame {**

**private String password;**

**private String confrmPwd;**

**public AdminAddNewHrFrame() {**

**initComponents();**

**this.setLocationRelativeTo(null);**

**loadId();**

**}**

**private void loadId(){**

**try{**

**int hrId=HrDAO.getNewHrId();**

**lblHrId.setText("Hr-"+hrId);**

**}**

**catch(SQLException ex){**

**JOptionPane.showMessageDialog(null,"DB Error","Error In Generating HrID",JOptionPane.ERROR\_MESSAGE);**

**ex.printStackTrace();**

**}**

**}**

**private boolean validateInputs(){**

**password=String.valueOf(txtPwd.getPassword());**

**confrmPwd=String.valueOf(txtCnfrmPwd.getPassword());**

**int index=jcProff.getSelectedIndex();**

**if(txtName.getText().isEmpty()||txtMail.getText().isEmpty()||txtMob.getText().isEmpty()||txtCompany.getText().isEmpty()||password.isEmpty()||confrmPwd.isEmpty()||index==0)**

**return false;**

**return true;**

**}**

**private boolean matchPasswords(){**

**return password.equals(confrmPwd);**

**}**

**private void addNewHrBtnActionPerformed(java.awt.event.ActionEvent evt) {**

**if(validateInputs()==false){**

**JOptionPane.showMessageDialog(null,"Please input all the fields","Error!",JOptionPane.ERROR\_MESSAGE);**

**return;**

**}**

**if(matchPasswords()==false){**

**JOptionPane.showMessageDialog(null,"Passwords do not match!","Error!",JOptionPane.ERROR\_MESSAGE);**

**return;**

**}**

**try{**

**HrPojo hr=new HrPojo();**

**hr.setUserId(txtMail.getText().trim());**

**hr.setHrId(lblHrId.getText().trim());**

**hr.setHrName(txtName.getText().trim());**

**hr.setCompanyName(txtCompany.getText().trim());**

**hr.setPassword(password);**

**hr.setProfession(jcProff.getSelectedItem().toString());**

**hr.setPhone(txtMob.getText().trim());**

**hr.setType("Hr");**

**int result=HrDAO.addNewHr(hr);**

**if(result==1){**

**JOptionPane.showMessageDialog(null,"Record Added!","Success!",JOptionPane.INFORMATION\_MESSAGE);**

**clearAll();**

**loadId();**

**return;**

**}**

**else if(result==-1){**

**JOptionPane.showMessageDialog(null,"This Email Id Is Already Registered","Error!",JOptionPane.ERROR\_MESSAGE);**

**return;**

**}**

**else{**

**JOptionPane.showMessageDialog(null,"Cannot add the record","Error!",JOptionPane.ERROR\_MESSAGE);**

**return;**

**}**

**}**

**catch(SQLException ex){**

**JOptionPane.showMessageDialog(null,"DB Error","Error",JOptionPane.ERROR\_MESSAGE);**

**ex.printStackTrace();**

**}**

**}**

**private void clearAll(){**

**txtName.setText("");**

**txtMail.setText("");**

**txtCompany.setText("");**

**txtMob.setText("");**

**txtPwd.setText("");**

**txtCnfrmPwd.setText("");**

**jcProff.setSelectedIndex(0);**

**}**