2015-16

DELHI PUBLIC SCHOOL GHAZIABADVASUNDHARA

ROLL NO: 04,

XII-C

LIBRARAY MANAGEMENT SYSTEM

BY

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ARCHITBANSAL

This is to certify that **ARCHIT BANSAL**,**PRANSHU PRANJAL** students of class XII has successfully completed the research on the below mentioned project under the guidance of Mr. Shekhar during the year 2015-2016 in fulfillment of Informatics Practicespractical examination conducted by CBSE.

Signature of Signature of

External examiner internalexaminer

ACKNOWLEDGEMENT

*In the accomplishment of this project successfully, many people have best owned upon me their blessings and the heart pledged support, this time I am utilizing to thank all the people who have been concerned with project.*

*Iwould like to thank my principal* ***Mr.Dharmendra Goyal;*** *and chemistry teacher* ***Mr. Shekhar****, whose valuable guidance has been the ones that helped me patch this project and make it full proof success. His suggestions and his instructions have served as the major contributor towards the completion of the project.*

*Then I would like to thank my parents and friends who have helped me with their valuable suggestions and guidance has been helpful in various phases of the completion of the project.*

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| --- | --- | --- |
| S. No. | Topic | Pg. No. |
| 1 | Introduction | 1 |
| 2 | Tools Used | 2 |
| 3 | MySQL | 3-7 |
| 4 | Net Beans | 7-91 |
| 5 | Conclusion |  |
| 6 | Bibliography |  |

INDEX

**INTRODUCTION**

**Tools Used**

1. Software Used For Programming

* Net Beans IDE
* MySQL

1. OperatingSystem

* Windows 10,7
* Mac OS X

1. Communication Software

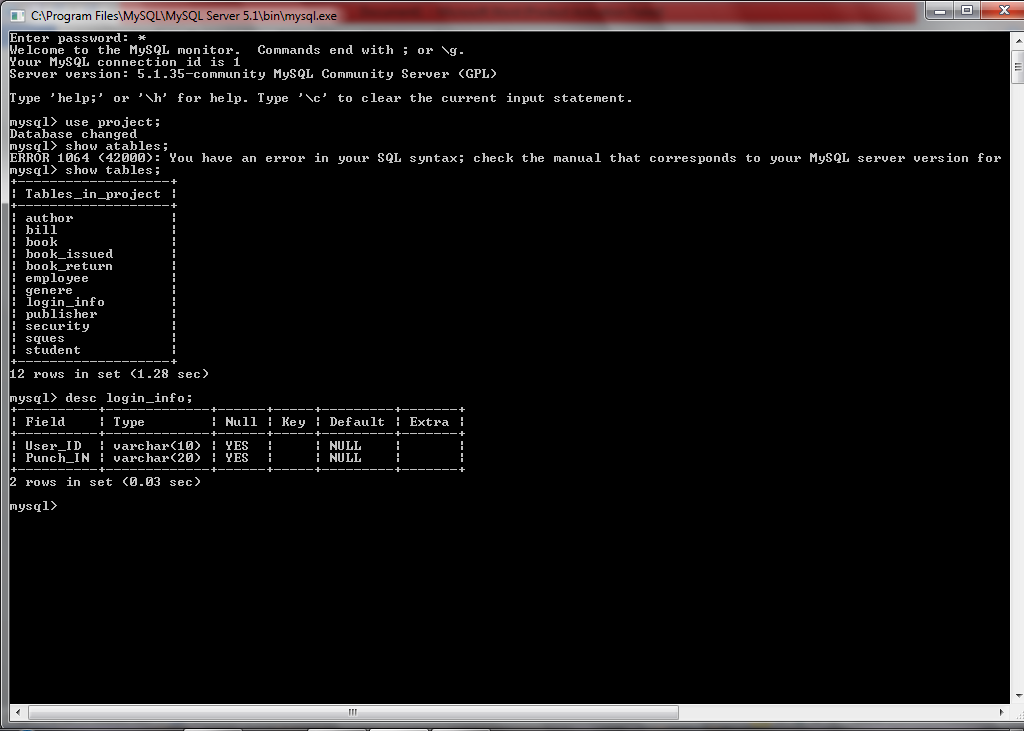
* Team Viewer

1. MYSQL Backup

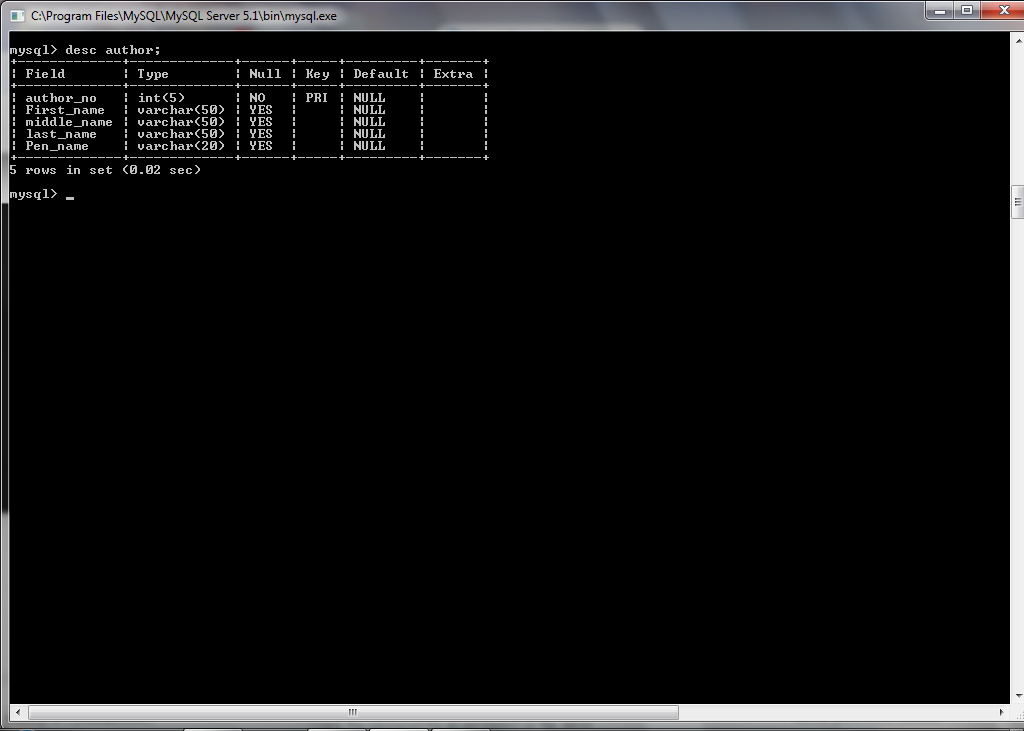
* Command Prompt

**MYSQL**

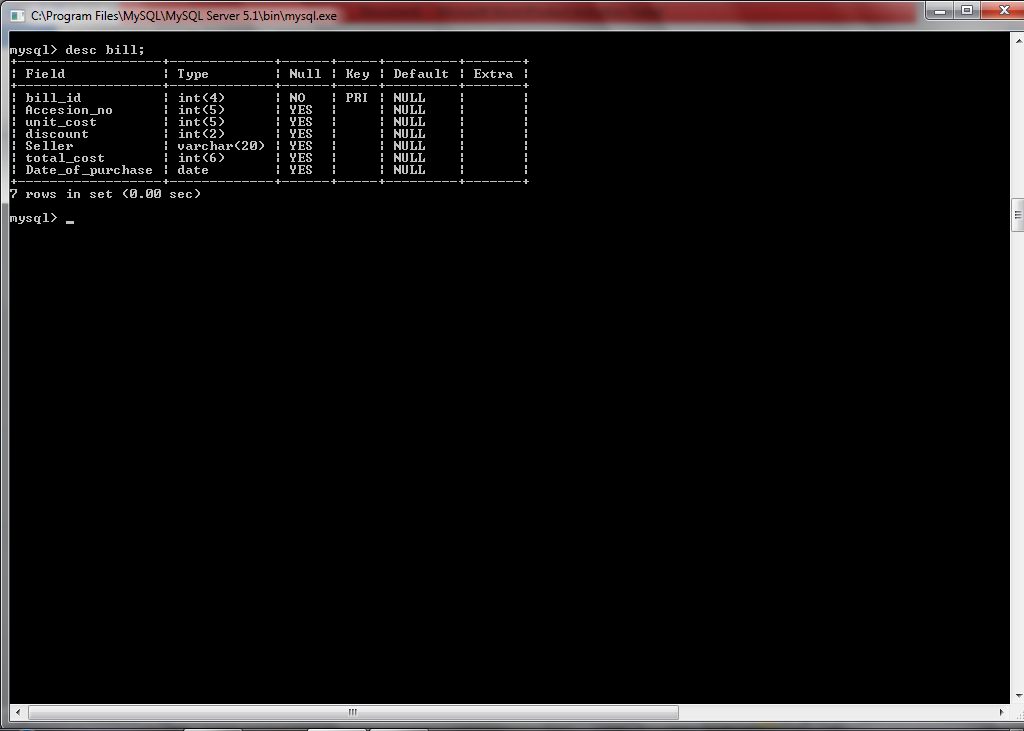
* Total Tables

‘

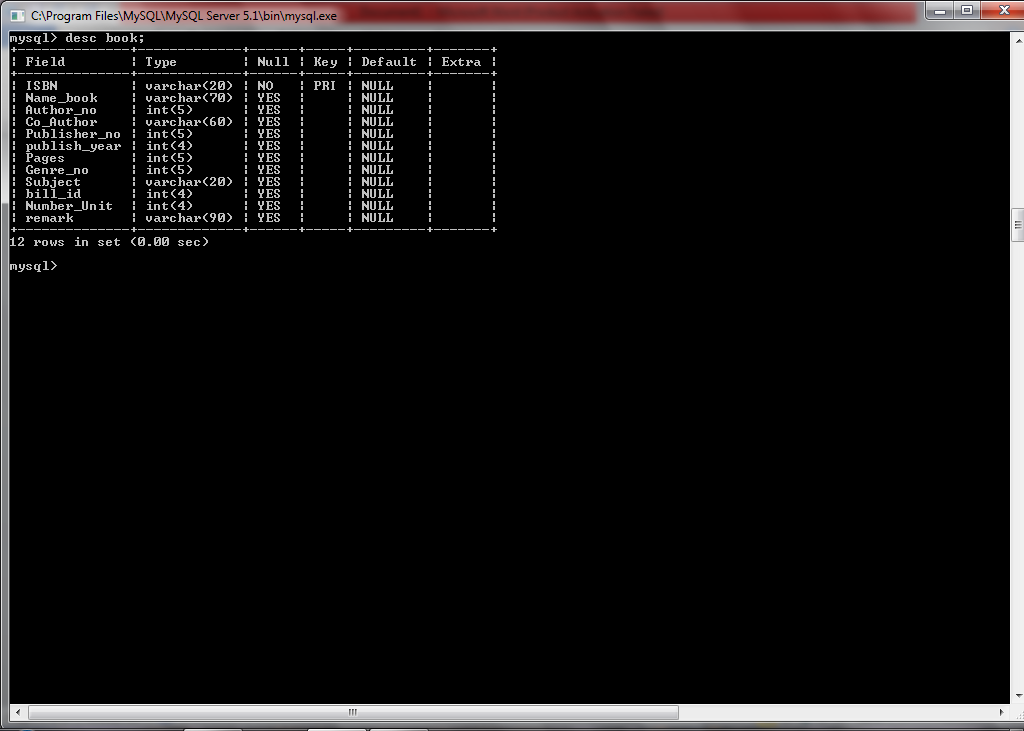
* Author Table



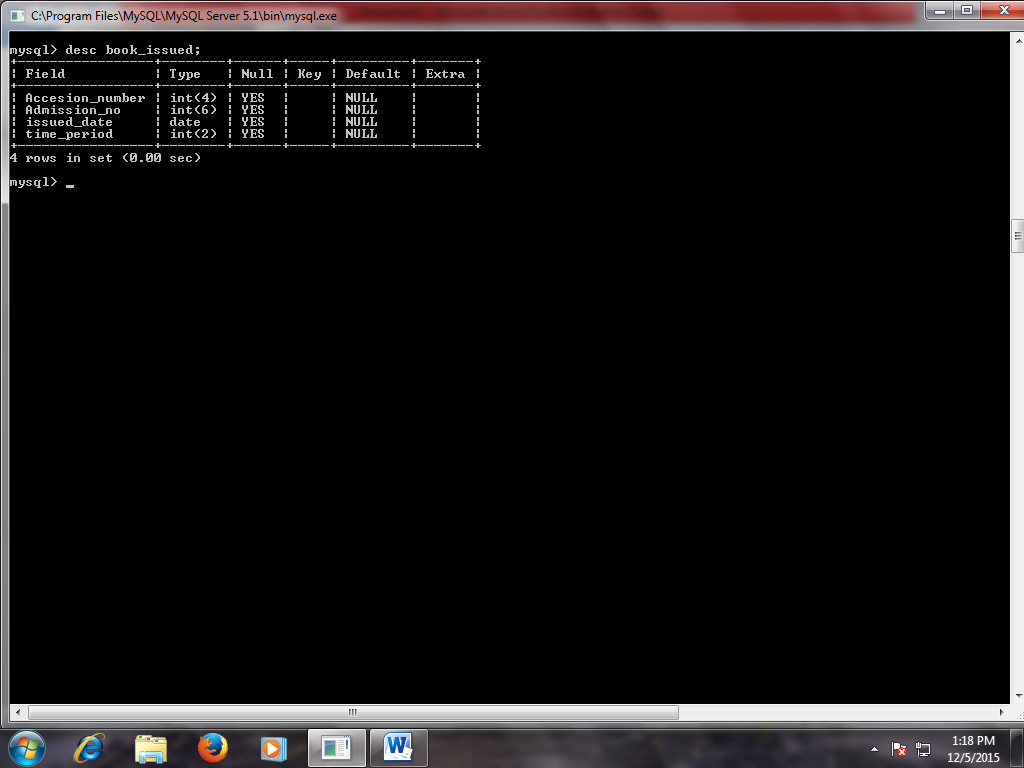
* Bill Table



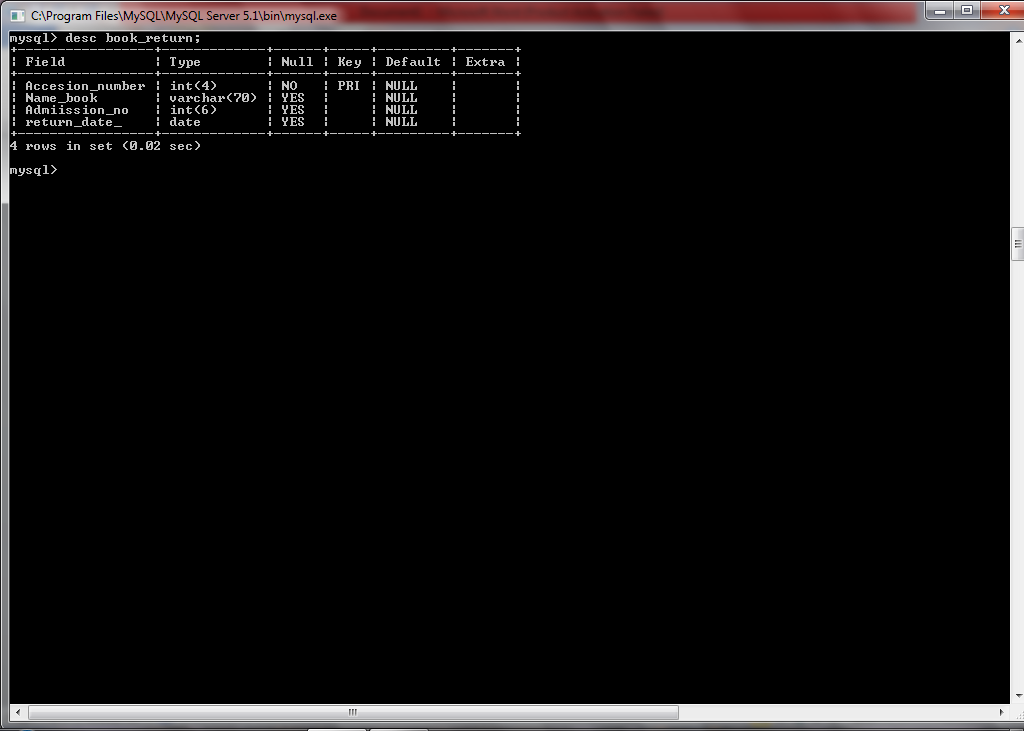
* Book Table



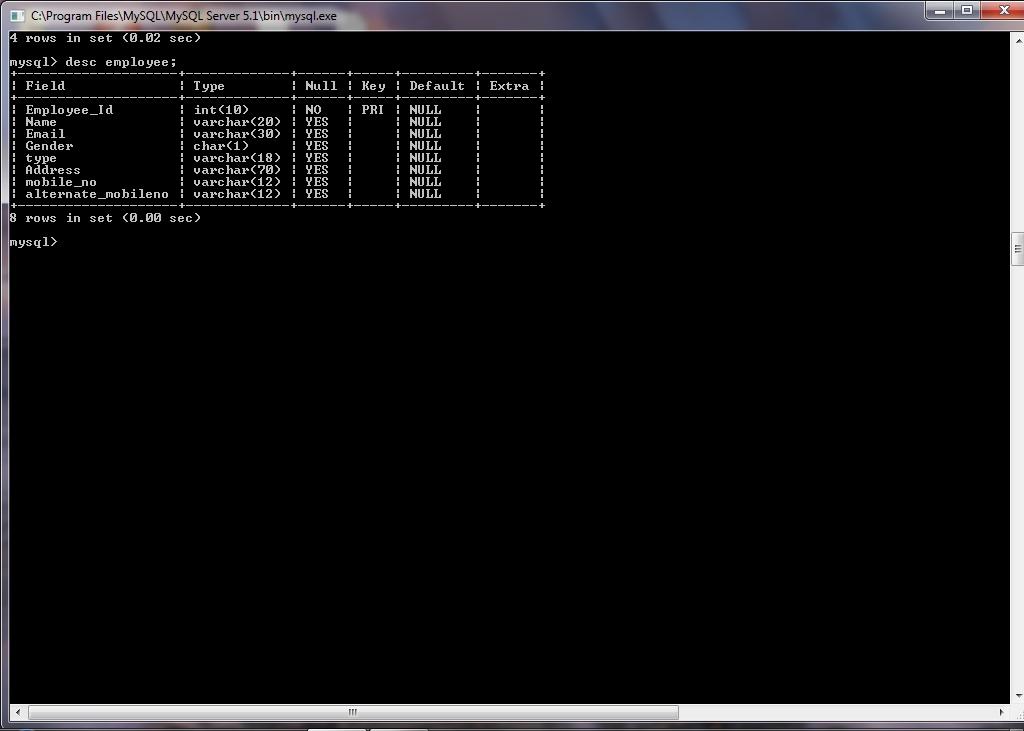
* Book Issued Table



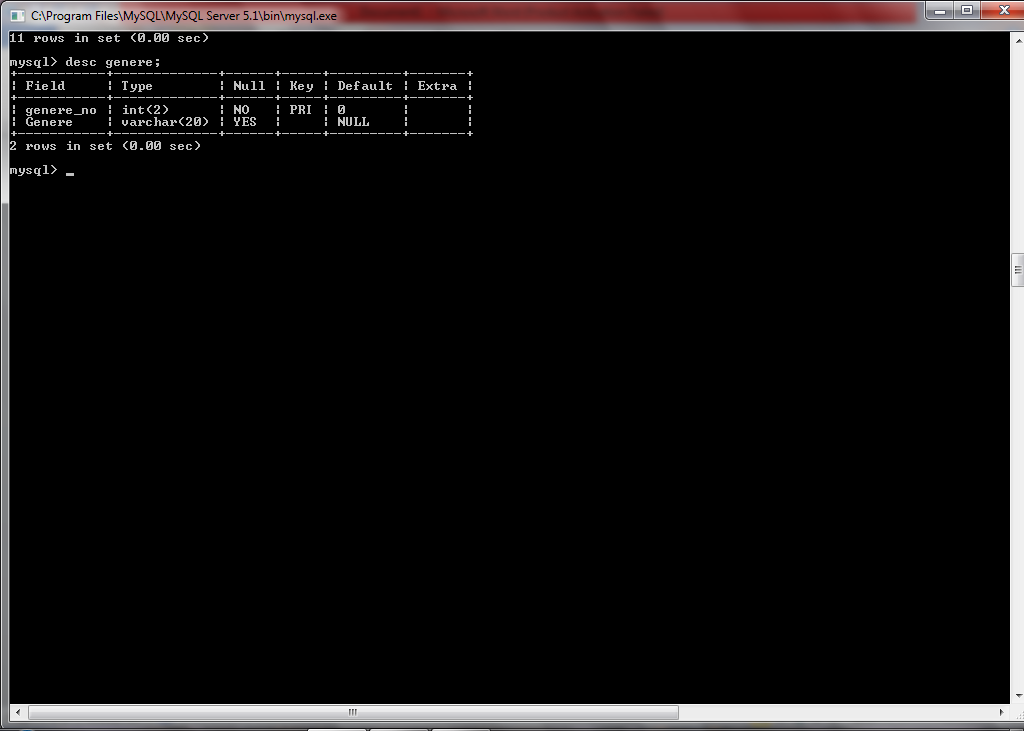
* Book Return Table



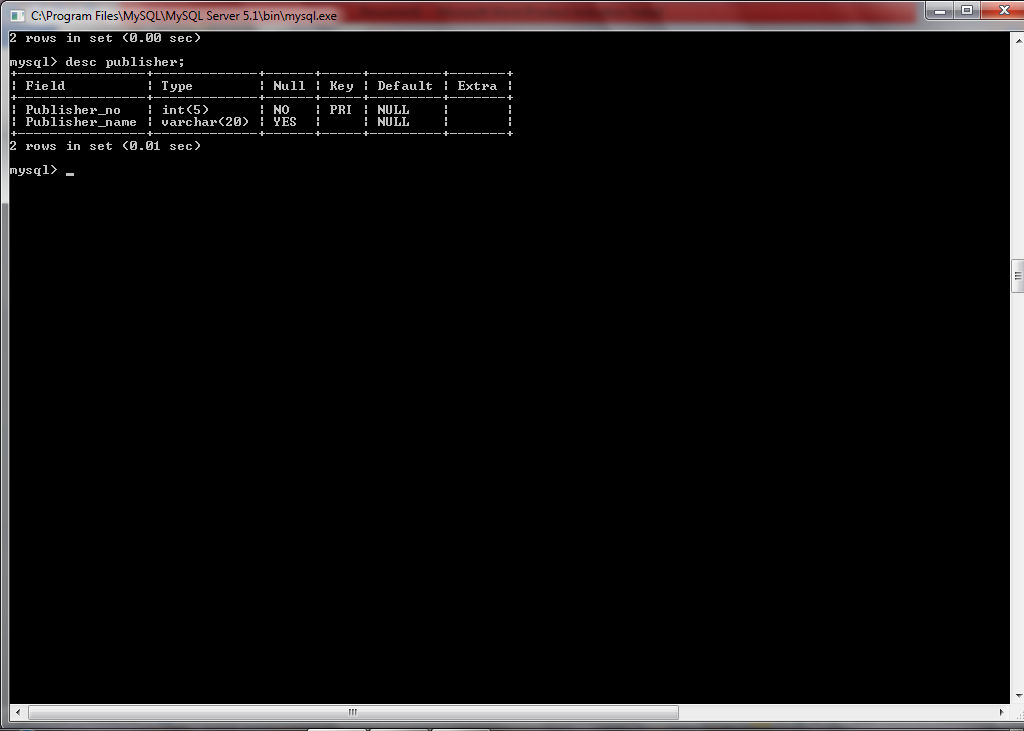
* Employee table



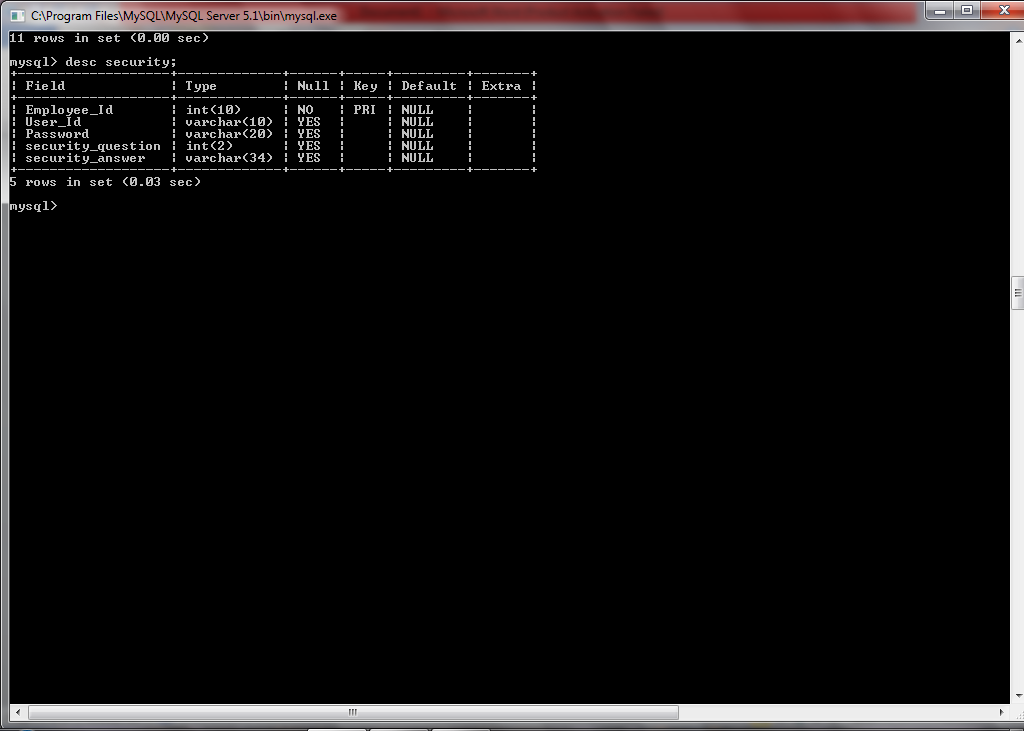
* Genre Table



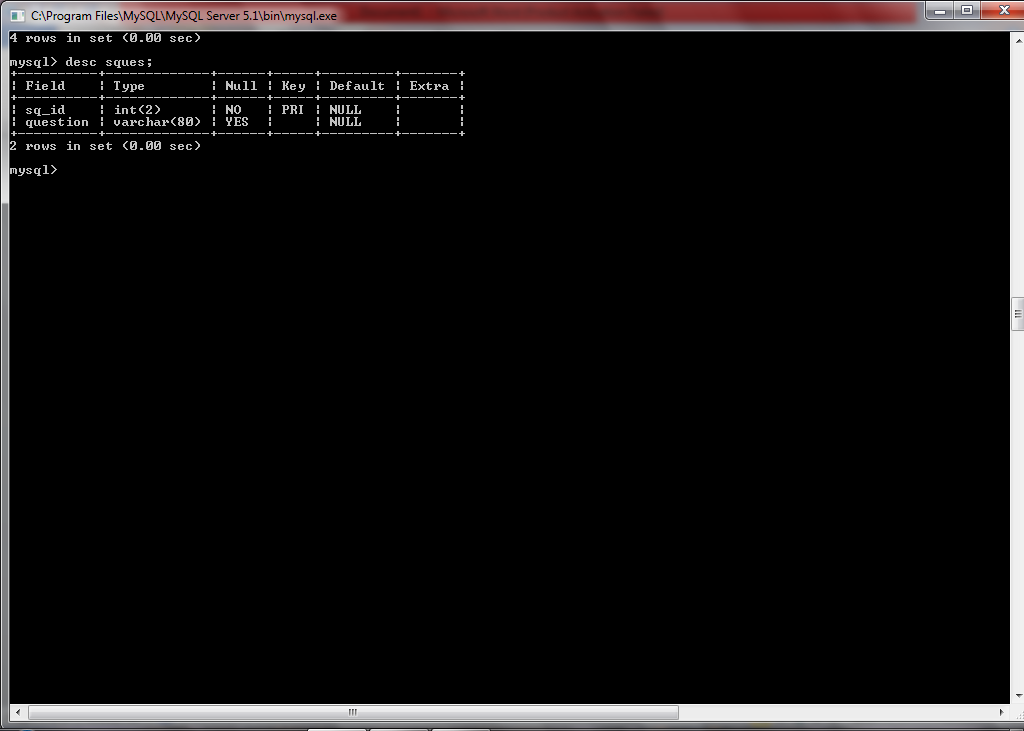
* Publisher Table



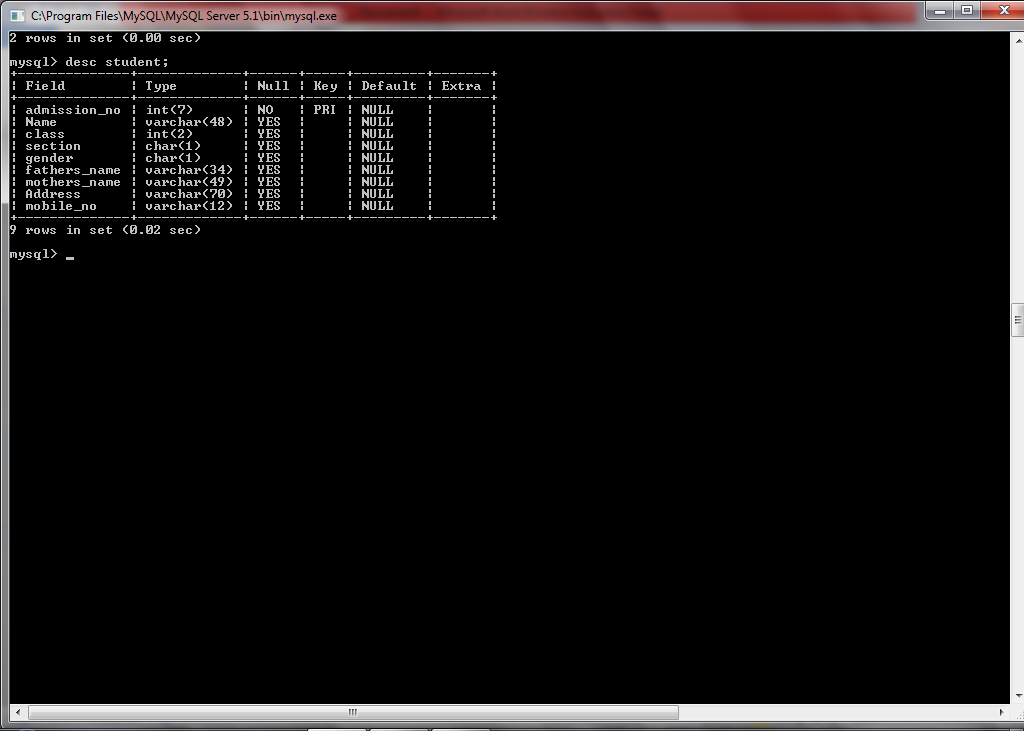
* Security Table



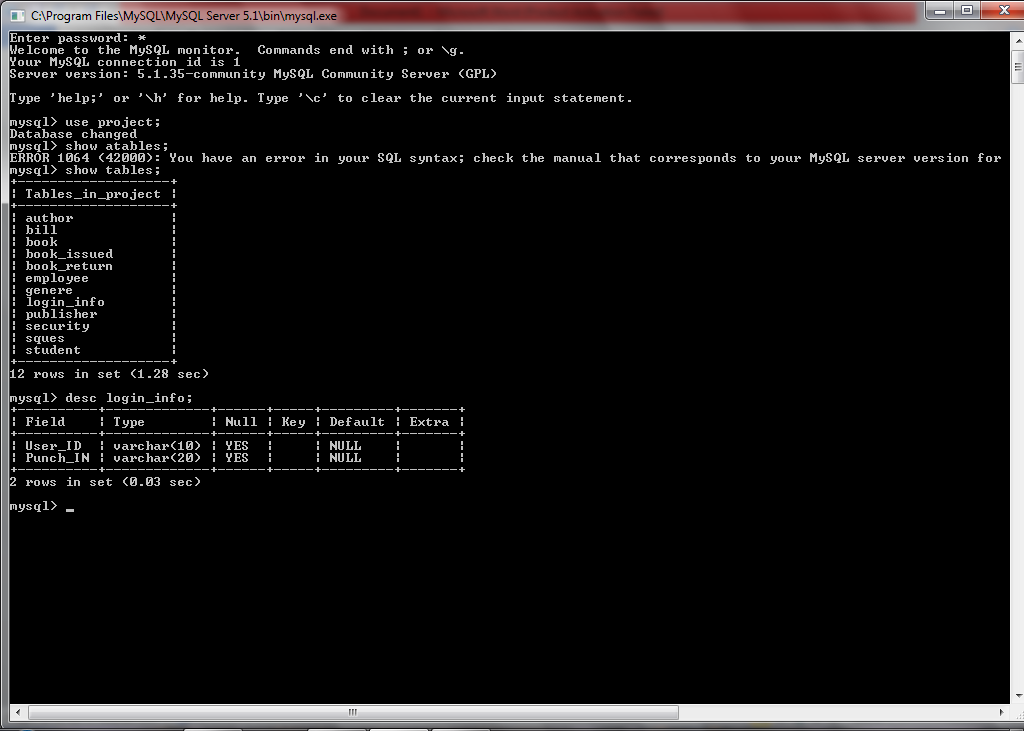
* Security question



* STUDENT TABLE

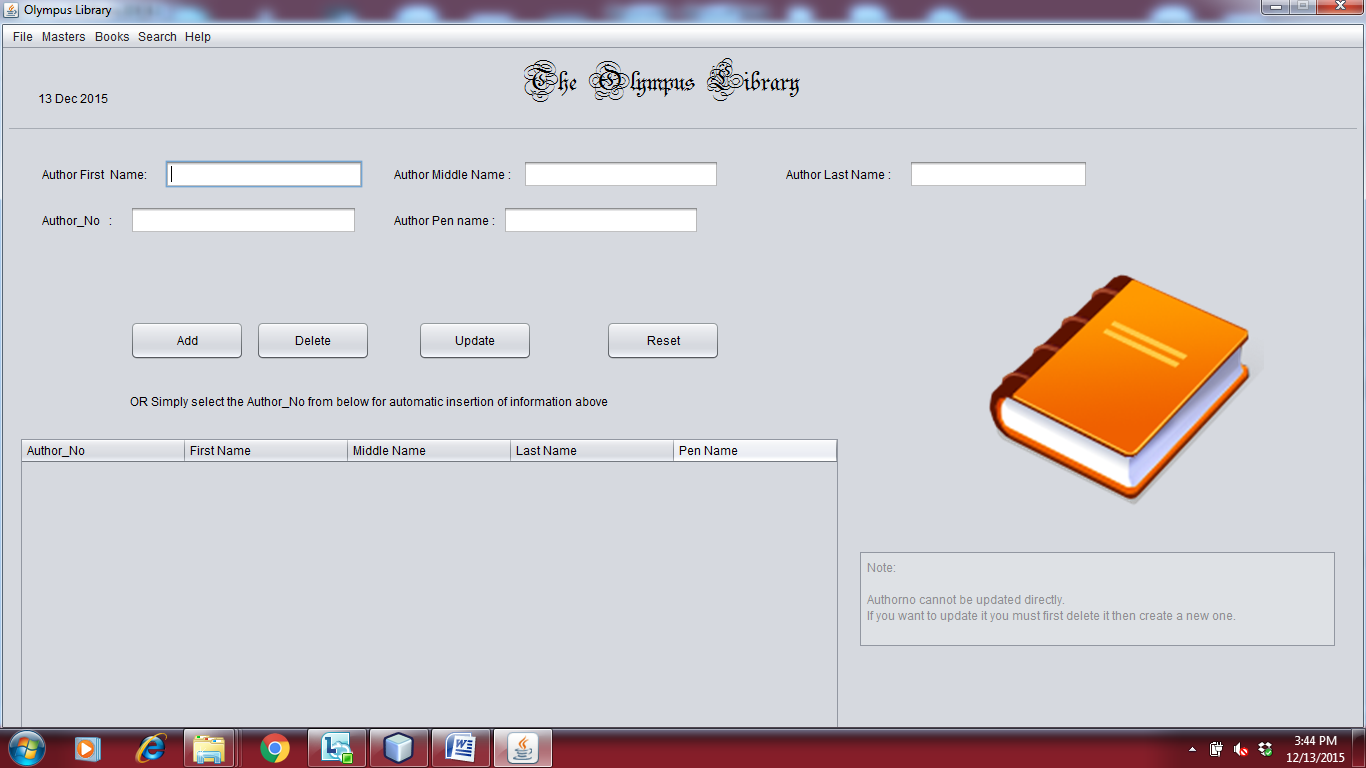


* LOGIN INFO TABLE



nET beans

AUTHOR MASTEr



Component used

1. Button
2. Table
3. Text Field

Code

1. **Add Button**

resetting();

String firstname=jTextField1.getText();

int authorno=Integer.parseInt(jTextField2.getText());

String middlename=jTextField3.getText();

String lastname=jTextField4.getText();

String penname=jTextField5.getText();

try

{

c=DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","");

stmt= c.createStatement();

String query="insert into author values('"+authorno+"','"+firstname+"','"+middlename+"','"+lastname+"','"+penname+"');";

stmt.executeUpdate(query);

JOptionPane.showMessageDialog(this,"Data successfully added. Click 'Ok' to continue!!!");

takeshi();

}

catch (Exception e)

{

JOptionPane.showMessageDialog(this,"Something went haywire there, why don't you try again ?");

}

resetting();

1. **Delete Button**

int authorno=Integer.parseInt(jTextField2.getText());

int res= JOptionPane.showConfirmDialog(null,"Want to delete the record?");

if(res==JOptionPane.YES\_OPTION)

{

try

{

c=DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","");

stmt= c.createStatement();

String query="delete from author where author\_no="+authorno+";";

stmt.executeUpdate(query);

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

takeshi();

}

catch (Exception e)

{

JOptionPane.showMessageDialog(this,"Something went haywire there, why don't you try again ?");

}

}

resetting();

}

1. Update Button

String firstname=jTextField1.getText();

int authorno=Integer.parseInt(jTextField2.getText());

String middlename =jTextField3.getText();

String lastname =jTextField4.getText();

String penname =jTextField5.getText();

int res= JOptionPane.showConfirmDialog(null,"Want to update the record?");

if(res==JOptionPane.YES\_OPTION)

{

try

{

c=DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","");

stmt= c.createStatement();

String query="update author set FIRST\_NAME= '"+firstname+"' ,middle\_name='"+middlename+"',last\_name='"+lastname+"',pen\_name='"+penname+"' where author\_no='"+authorno+"';";

stmt.executeUpdate(query);

JOptionPane.showMessageDialog(null,"Record Updated!");

takeshi();

}

catch (Exception e)

{

JOptionPane.showMessageDialog(this,"Something went haywire there, why don't you try again ?");

}

}

resetting();

}

1. Reset Button

String firstname=jTextField1.getText();

int authorno=Integer.parseInt(jTextField2.getText());

String middlename=jTextField3.getText();

String lastname=jTextField4.getText();

String penname=jTextField5.getText();

try

{

c=DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","");

stmt= c.createStatement();

String query="insert into author values('"+authorno+"','"+firstname+"','"+middlename+"','"+lastname+"','"+penname+"');";

stmt.executeUpdate(query);

JOptionPane.showMessageDialog(this,"Data successfully added. Click 'Ok' to continue!!!");

takeshi();

}

catch (Exception e)

{

JOptionPane.showMessageDialog(this,"Something went haywire there, why don't you try again ?");

}

resetting();

}

1. Table

int p=jTable1.getSelectedRow();

jTextField2.setText(jTable1.getValueAt(p,0).toString());

jTextField1.setText(jTable1.getValueAt(p,1).toString());

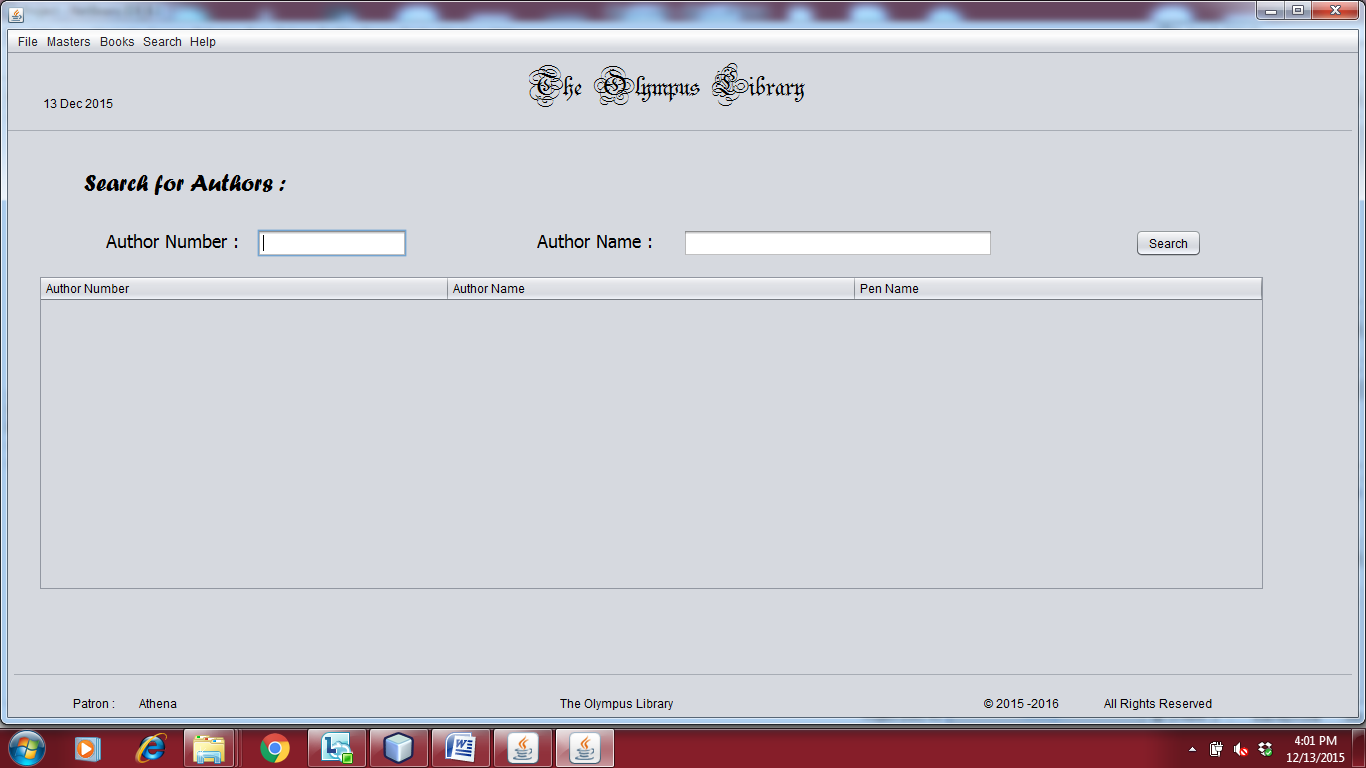
jTextField3.setText(jTable1.getValueAt(p,2).toString());

jTextField4.setText(jTable1.getValueAt(p,3).toString());

jTextField5.setText(jTable1.getValueAt(p,4).toString());

}

AUTHOR search



Componenet Used

1. TextField
2. Button
3. Table
4. Label

Code

1. Search Button

DefaultTableModel model =(DefaultTableModel) jTable1.getModel();

int rows=model.getRowCount();

if (rows>0)

{

for(int i=0;i<rows;i++)

{

model.removeRow(0);

}

}

Connection c;

ResultSet rs;

Statement stmt;

String authorno=jTextField1.getText().trim();

String authorname=jTextField2.getText().trim();

try

{

c=DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","");

stmt= c.createStatement();

String query;

query= "select \* from author where author\_no='"+authorno+"' or first\_name='"+authorname+"'or middle\_name='"+authorname+"' or last\_name='"+authorname+"';";

rs=stmt.executeQuery(query);

while(rs.next())

{

model.addRow(new Object [] {

rs.getInt(1),rs.getString(2)+" "+rs.getString(3)+" "+rs.getString(4),rs.getString(5)});

}

if(jTable1.getRowCount()==0)

{

JOptionPane.showMessageDialog(this,"Search Complete. No record Found");

}

rs.close();

stmt.close();

c.close();

resetting();

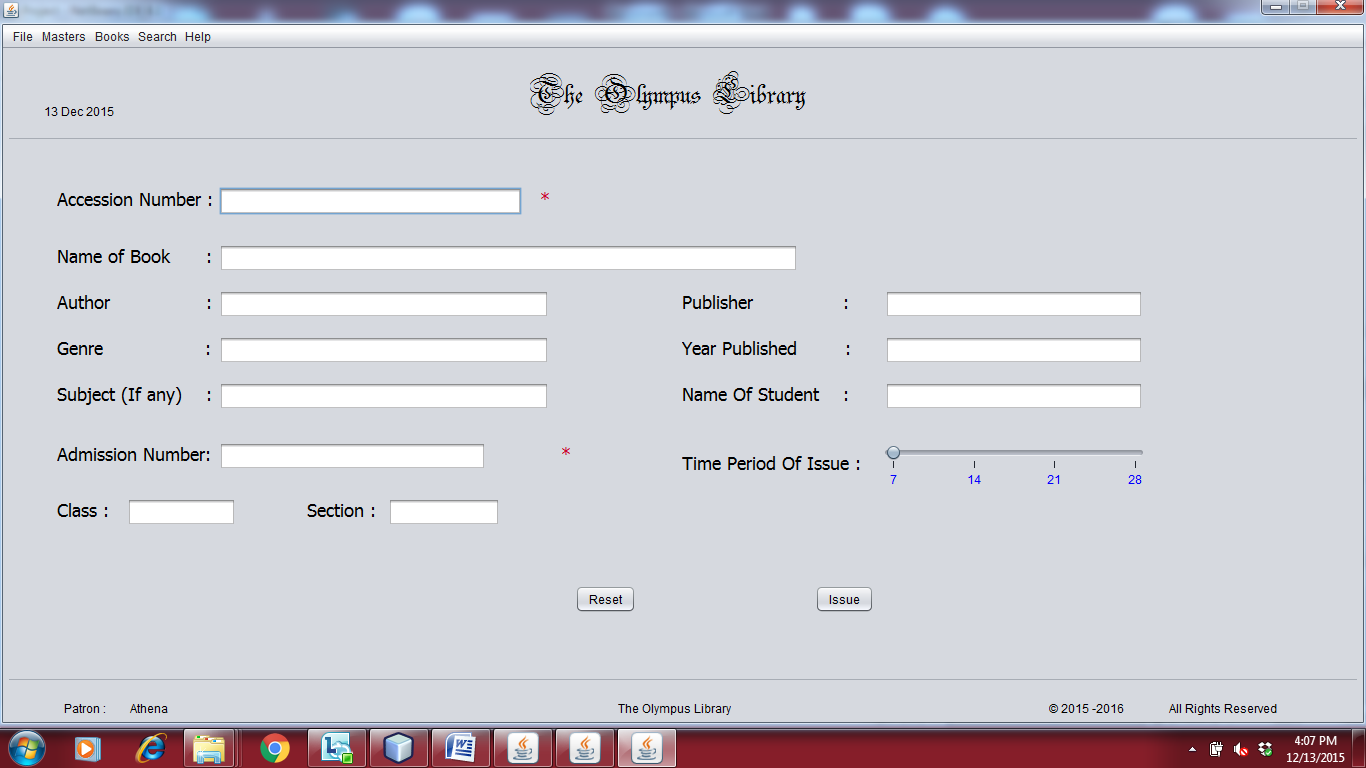
}

catch(Exception e)

{

System.out.print(e);

Book issued



Components Used

1. Label
2. TextField
3. Button
4. Slider

Code

1. Issue Button

String accno=jTextField1.getText();

try

{

c=DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","");

s= c.createStatement();

String query="select name\_book,First\_name,middle\_name,last\_name,genre\_name,subject,publisher\_name,publish\_year from book,author,publisher,genre where book.author\_no=author.author\_no and book.publisher\_no=publisher.publisher\_no and book.genre\_no=genre.genre\_no and accession\_no="+accno+";";

rs=s.executeQuery(query);

rs.next();

jTextField2.setText(rs.getString(1));

jTextField3.setText(rs.getString(2)+rs.getString(3)+rs.getString(4));

jTextField4.setText(rs.getString(5));

jTextField5.setText(rs.getString(6));

jTextField9.setText(rs.getString(7));

jTextField10.setText(rs.getString(8));

}

catch(Exception e)

{

JOptionPane.showMessageDialog(this,"Have you given the correct input for Accession Number :"+accno);

}

}

1. Accession no. TextField

String accno=jTextField1.getText();

try

{

c=DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","");

s= c.createStatement();

String query="select name\_book,First\_name,middle\_name,last\_name,genre\_name,subject,publisher\_name,publish\_year from book,author,publisher,genre where book.author\_no=author.author\_no and book.publisher\_no=publisher.publisher\_no and book.genre\_no=genre.genre\_no and accession\_no="+accno+";";

rs=s.executeQuery(query);

rs.next();

jTextField2.setText(rs.getString(1));

jTextField3.setText(rs.getString(2)+rs.getString(3)+rs.getString(4));

jTextField4.setText(rs.getString(5));

jTextField5.setText(rs.getString(6));

jTextField9.setText(rs.getString(7));

jTextField10.setText(rs.getString(8));

}

catch(Exception e)

{

JOptionPane.showMessageDialog(this,"Have you given the correct input for Accession Number :"+accno);

}

1. Admission Number TextField

String admno=jTextField6.getText();

try

{

c=DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","");

s= c.createStatement();

String query="select name,class,section from student where Admission\_no="+admno+";";

rs=s.executeQuery(query);

rs.next();

jTextField11.setText(rs.getString(1));

jTextField7.setText(rs.getString(2));

jTextField8.setText(rs.getString(3));

}

catch(Exception e)

{

JOptionPane.showMessageDialog(this,"Have you given the correct input for Admission Number:"+admno);

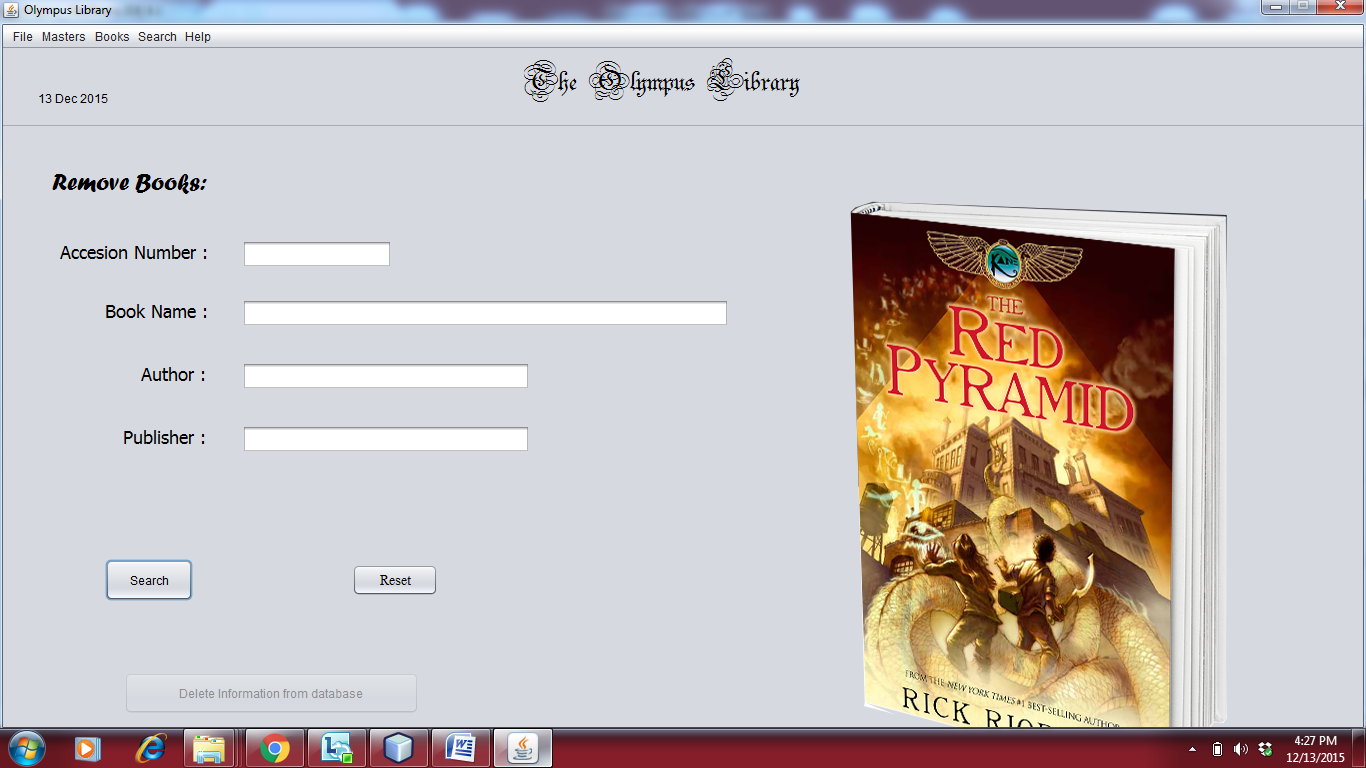
}

}

1. Reset Button

resetting();

book remove



Component Used

1. Label
2. Button
3. TextField

Code

1. Search Button

String accno=jTextField1.getText();

String query= "select accession\_no,name\_book,first\_name,middle\_name,last\_name,publisher\_name from book,author,publisher where book.author\_no=author.author\_no and publisher.publisher\_no=book.publisher\_no and accession\_no="+accno+";";

if(!accno.matches(""))

{

try

{

c=DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","");

stmt= c.createStatement();

rs=stmt.executeQuery(query);

rs.next();

jTextField2.setText(rs.getString(2));

jTextField3.setText(rs.getString(3)+rs.getString(4)+rs.getString(5));

jTextField4.setText(rs.getString(6));

jButton2.setEnabled(true);

}

catch(Exception e)

{

if(e.getMessage().matches("Illegal operation on empty result set."))

JOptionPane.showMessageDialog(this,"Invalid Accession Number !!");

jTextField1.setText("");

}

}

}

1. Delete Button

int accessionno=Integer.parseInt(jTextField1.getText());

int res= JOptionPane.showConfirmDialog(null,"Are you sure youu ant to remove all information regarding this book: "+jTextField2.getText());

if(res==JOptionPane.YES\_OPTION)

{

try

{

c=DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","");

stmt= c.createStatement();

String query="delete from book where accession\_no="+accessionno+";";

stmt.executeUpdate(query);

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

}

catch (Exception e)

{

JOptionPane.showMessageDialog(this,"Something went haywire there, why don't you try again ?");

}

}

}

1. Reset Button

jTextField1.setText("");

jTextField2.setText("");

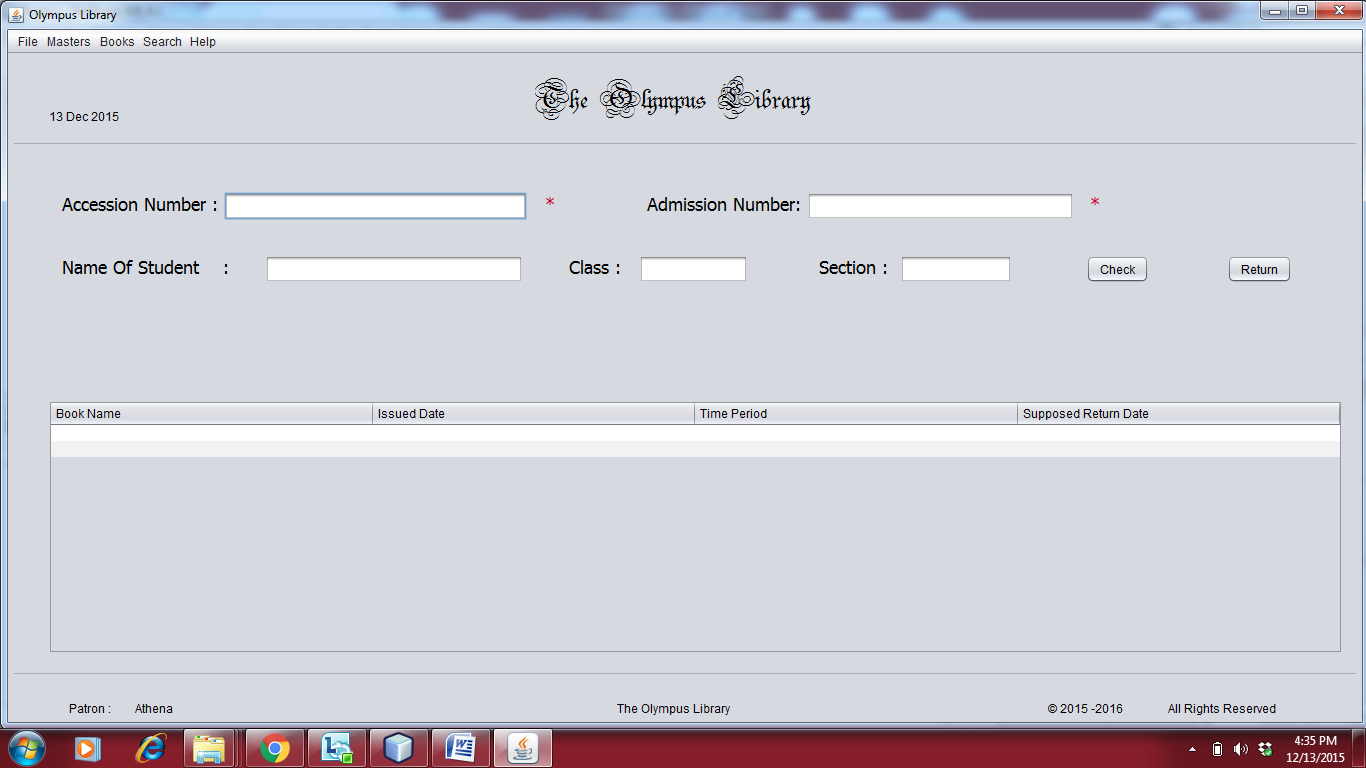
jTextField3.setText("");

jTextField4.setText("");

jButton2.setEnabled(false);

}

Book return



Component Used

1. Label
2. Button
3. TextField

Code

1. Check Button

int accno=Integer.parseInt(jTextField1.getText());

int admno=Integer.parseInt(jTextField2.getText());

DefaultTableModel model =(DefaultTableModel) jTable1.getModel();

int rows=model.getRowCount();

if (rows>0)

{

for(int i=0;i<rows;i++)

{

model.removeRow(0);

}

}

try

{

c=DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","");

stmt= c.createStatement();

String query="select name\_book,accesion\_number,student.admission\_no,issued\_date,time\_period,adddate(issued\_date,time\_period) as 'Supposed returned Date',name,class,section from book\_issued,student,book where book\_issued.Admission\_no=student.Admission\_no and book\_issued.Accesion\_number=book.Accession\_no and Accession\_no="+accno+" and student.Admission\_no="+admno+";";

rs=stmt.executeQuery(query);

while(rs.next())

{

jTextField3.setText(rs.getString(7));

jTextField4.setText(rs.getString(8));

jTextField5.setText(rs.getString(9));

model.addRow(new Object [] {

rs.getString(1),rs.getString(4),rs.getString(5),rs.getString(6)

});

}

}

catch(Exception e)

{

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

}

}

1. Return Button

int accno=Integer.parseInt(jTextField1.getText());

int admno=Integer.parseInt(jTextField2.getText());

int row=jTable1.getSelectedRow();

if(row==-1)

{

row=0;

}

String IDate=jTable1.getValueAt(row,1).toString();

String SDate=jTable1.getValueAt(row,3).toString();

try

{

c=DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","");

stmt= c.createStatement();

smt= c.createStatement();

String up="insert into book\_return values("+accno+","+admno+",'"+IDate+"','"+SDate+"',date(now()));";

String down="delete from book\_issued where Admission\_no="+admno+" and Accesion\_number="+accno+";";

stmt.executeUpdate(up);

smt.executeUpdate(down);

}

catch(Exception e)

{

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

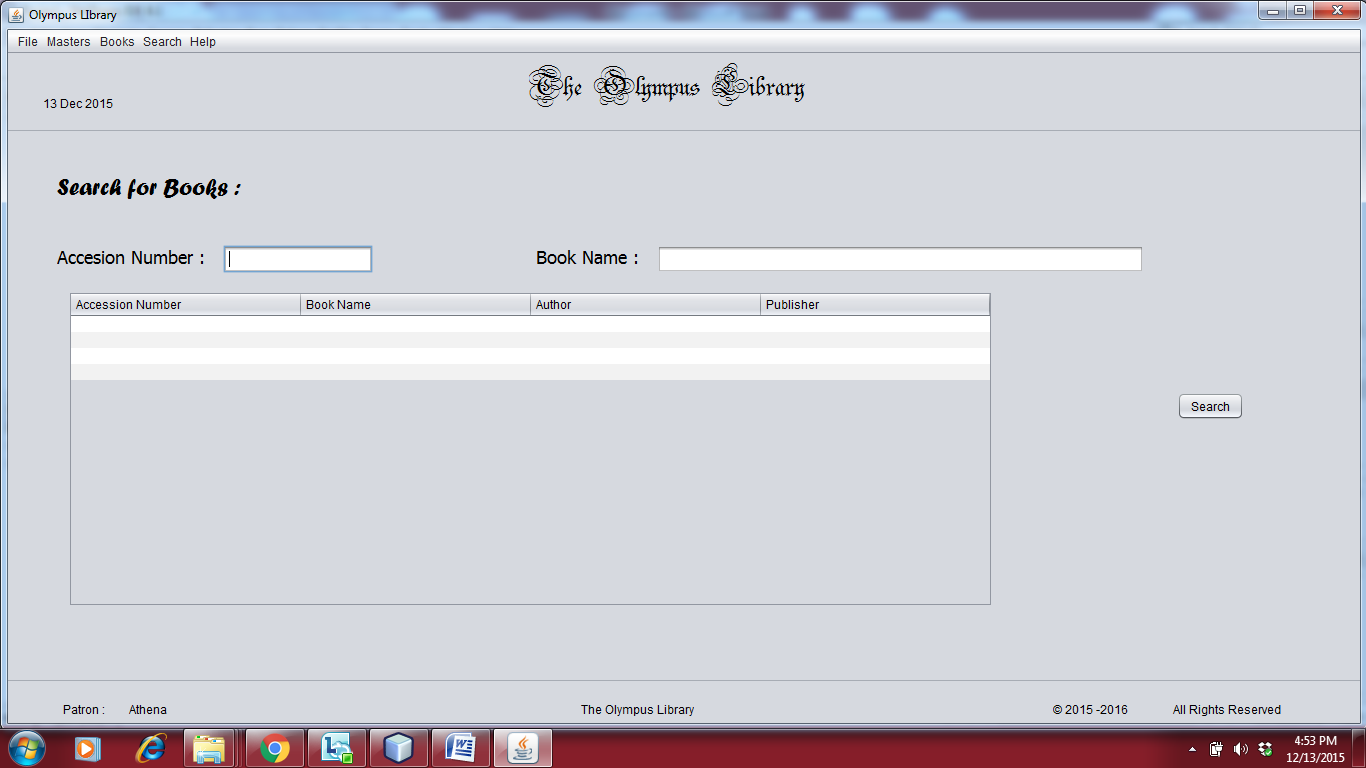
}

JOptionPane.showMessageDialog(this, "Successfully Returned");

resetting();

}

Book search



Component Used

1. Label
2. Button
3. TextField

Code

1. Search Button

Connection c;

ResultSet rs;

Statement stmt;

String accno=jTextField1.getText();

String bookname=jTextField2.getText();

DefaultTableModel model =(DefaultTableModel) jTable1.getModel();

int rows=model.getRowCount();

if (rows>0)

{

for(int i=0;i<rows;i++)

{

model.removeRow(0);

}

}

String query= "select accession\_no,name\_book,first\_name,middle\_name,last\_name,publisher\_name from book,author,publisher where book.author\_no=author.author\_no and publisher.publisher\_no=book.publisher\_no and name\_book like \"%"+bookname+"%\" and accession\_no="+accno+";";

try

{

c=DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","");

stmt= c.createStatement();

if(accno.matches(""))

{

query= "select accession\_no,name\_book,first\_name,middle\_name,last\_name,publisher\_name from book,author,publisher where book.author\_no=author.author\_no and publisher.publisher\_no=book.publisher\_no and name\_book like \"%"+bookname+"%\";";

}

else if(bookname.matches(""))

{

query= "select accession\_no,name\_book,first\_name,middle\_name,last\_name,publisher\_name from book,author,publisher where book.author\_no=author.author\_no and publisher.publisher\_no=book.publisher\_no and Accession\_no="+accno+";";

}

rs=stmt.executeQuery(query);

while(rs.next())

{

model.addRow(new Object [] {

rs.getInt(1),rs.getString(2),rs.getString(3)+rs.getString(4)+rs.getString(5),rs.getString(6)

});

}

if(jTable1.getRowCount()==0)

{

JOptionPane.showMessageDialog(this,"Search Complete. No record Found");

resetting();

}

rs.close();

stmt.close();

c.close();

}

catch(Exception e)

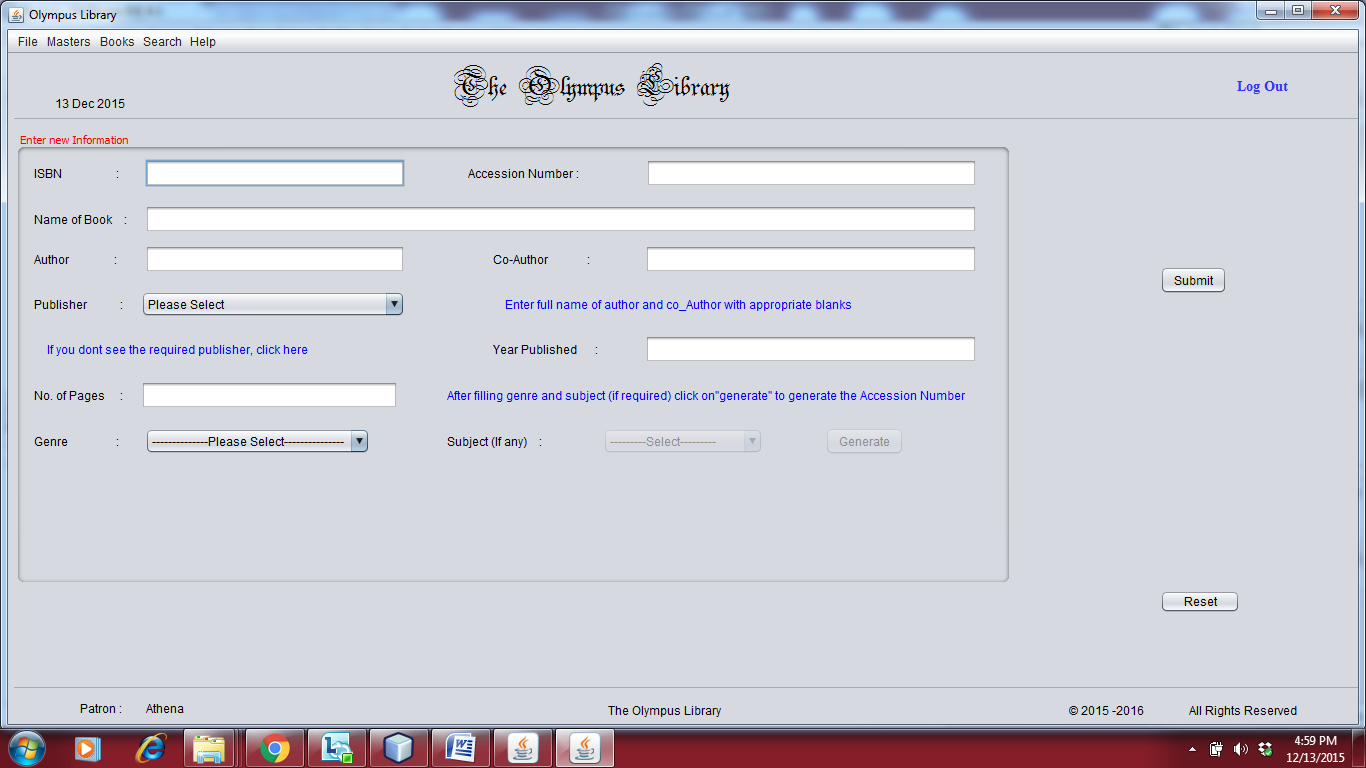
{

System.out.print(e);

}

}

New book entry



Component Used

1. Label
2. Button
3. TextField

Code

1. Submit Button

String T1=jTextField1.getText(); //ISBN

String T2=jTextField2.getText(); //Acc\_No

String T3=jTextField3.getText(); //name

String T4=jTextField4.getText(); //Author

String T5=jTextField5.getText(); //Co\_Author

int C1=jComboBox3.getSelectedIndex(); //Publ no

String T6=jTextField6.getText(); //Publ Year

String T7=jTextField7.getText(); //Pages

int A1=0;

int A2=0;

Statement st;

ResultSet res;

try

{

c=DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","");

smt=c.createStatement();

st=c.createStatement();

String query="Select Author\_No from Author where '"+T4+"'=concat(first\_name,\" \",Middle\_name,\" \",Last\_name) or '"+T4+"'=Pen\_Name ";

String query1="Select Author\_No from Author where '"+T5+"'=concat(first\_name,\" \",Middle\_name,\" \",Last\_name) or '"+T4+"'=Pen\_Name ";

rs=smt.executeQuery(query);

res=st.executeQuery(query1);

rs.next();

res.next();

A1=Integer.parseInt(rs.getString(1));

A2=Integer.parseInt(res.getString(1));

}

catch(Exception e)

{

JOptionPane.showMessageDialog(this,"Oops something went haywire there why don’t you try again");

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

}

System.out.println(A1);

System.out.println(A2);

try

{

c=DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","");

smt=c.createStatement();

String query="insert into book values('"+T1+"','"+T2+"','"+T3+"','"+A1+"','"+A2+"','"+T6+"','"+T7+"');";

smt.executeUpdate(query);

JOptionPane.showMessageDialog(this,"Data successfully added. Click 'Ok' to continue!!!");

}

catch(Exception e)

{

JOptionPane.showMessageDialog(this,"Oops something went haywire there why don’t you try again");

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

}

}

1. Generate Button

String a,b;

a="G"+jComboBox1.getSelectedIndex();

if(jComboBox2.isEnabled())

{

b=jComboBox2.getSelectedItem().toString().substring(0,3).toUpperCase();

}

else

{

b="XXX";

}

String mon=a+b;

String Ram=mon;

try

{

c=DriverManager.getConnection("jdbc:mysql://localhost:3306/poiuy","root",""); //remember to change project name here

smt=c.createStatement();

rs=smt.executeQuery("select accesion\_no from book where accesion\_no like \""+mon+"%"+"\";");

rs.last();

if(rs.getRow()==0)

{

Ram=Ram+1;

}

else

{

int ano=Integer.parseInt(rs.getString(1).substring(6));

Ram=Ram+(ano+1);

}

}

catch(Exception e)

{

JOptionPane.showMessageDialog(this,"Oops something went haywire there why don’t you try again");

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

}

jTextField2.setText(Ram);

}

1. Reset Button

jTextField1.setText("");

jTextField2.setText("");

jTextField3.setText("");

jTextField4.setText("");

jTextField5.setText("");

jTextField6.setText("");

jComboBox1.setSelectedIndex(0);

1. Log Out Label

int a=JOptionPane.showConfirmDialog(this,"Do you wish to log out ?","Log Out Confirmation",0,0);

if(a==0)

{

System.out.println("Succes");

}

Cursor cur1=new Cursor(Cursor.HAND\_CURSOR);

jLabel14.setCursor(cur1);

1. Genre ComboBox

if(jComboBox1.getSelectedIndex()==10 || jComboBox1.getSelectedIndex()==19)

{

jComboBox2.setEnabled(true);

}

else

{

jComboBox2.setEnabled(false);

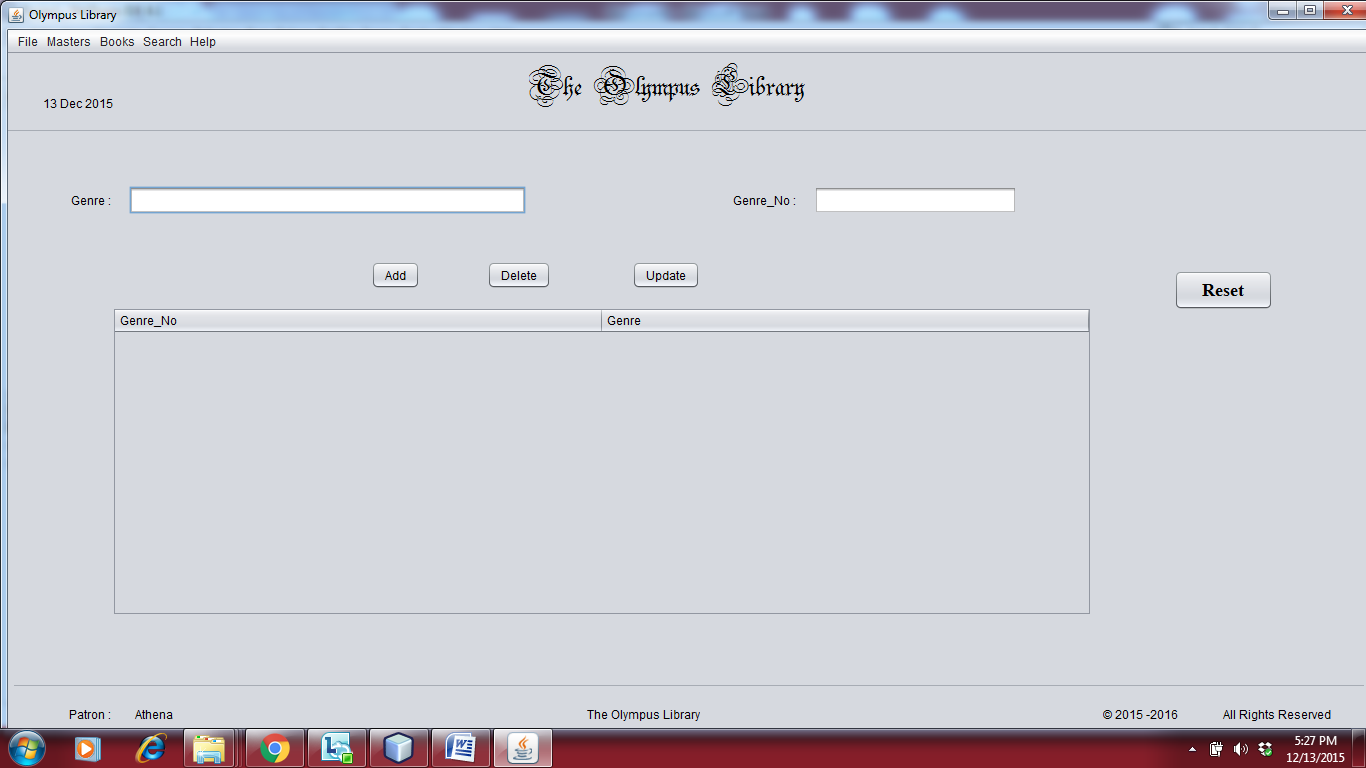
jComboBox2.setSelectedIndex(0);

}

jButton3.setEnabled(true);

}

Genre Master



Components Used

1. TextField
2. Label
3. Button
4. Table

Code

1. Add Button

String genrename=jTextField1.getText();

String genreno=jTextField2.getText();

try

{

c=DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","");

stmt= c.createStatement();

String query="insert into genre values('"+genreno+"','"+genrename+"');";

stmt.executeUpdate(query);

JOptionPane.showMessageDialog(this,"Data successfully added. Click 'Ok' to continue!!!");

harry();

}

catch (Exception e)

{

JOptionPane.showMessageDialog(this,"Something went haywire there, why don't you try again ?");

}

resetting();

}

1. Delete Button

String genreno=jTextField2.getText();

int res= JOptionPane.showConfirmDialog(null,"Want to delete the record?");

if(res==JOptionPane.YES\_OPTION)

{

try

{

c=DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","");

stmt= c.createStatement();

String query="delete from genre where genre\_no="+genreno+";";

stmt.executeUpdate(query);

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

harry();

}

catch (Exception e)

{

JOptionPane.showMessageDialog(this,"Something went haywire there, why don't you try again ?");

}

}

resetting();

}

1. Update Button

String genrename=jTextField1.getText();

String genreno=jTextField2.getText();

int res= JOptionPane.showConfirmDialog(null,"Want to update the record?");

if(res==JOptionPane.YES\_OPTION)

{

try

{

c=DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","");

stmt= c.createStatement();

String query="update genre set genre\_name= '"+genrename+"' where genre\_no='"+genreno+"';";

stmt.executeUpdate(query);

JOptionPane.showMessageDialog(null,"Record Updated!");

harry();

}

catch (Exception e)

{

JOptionPane.showMessageDialog(this,"Something went haywire there, why don't you try again ?");

}

}

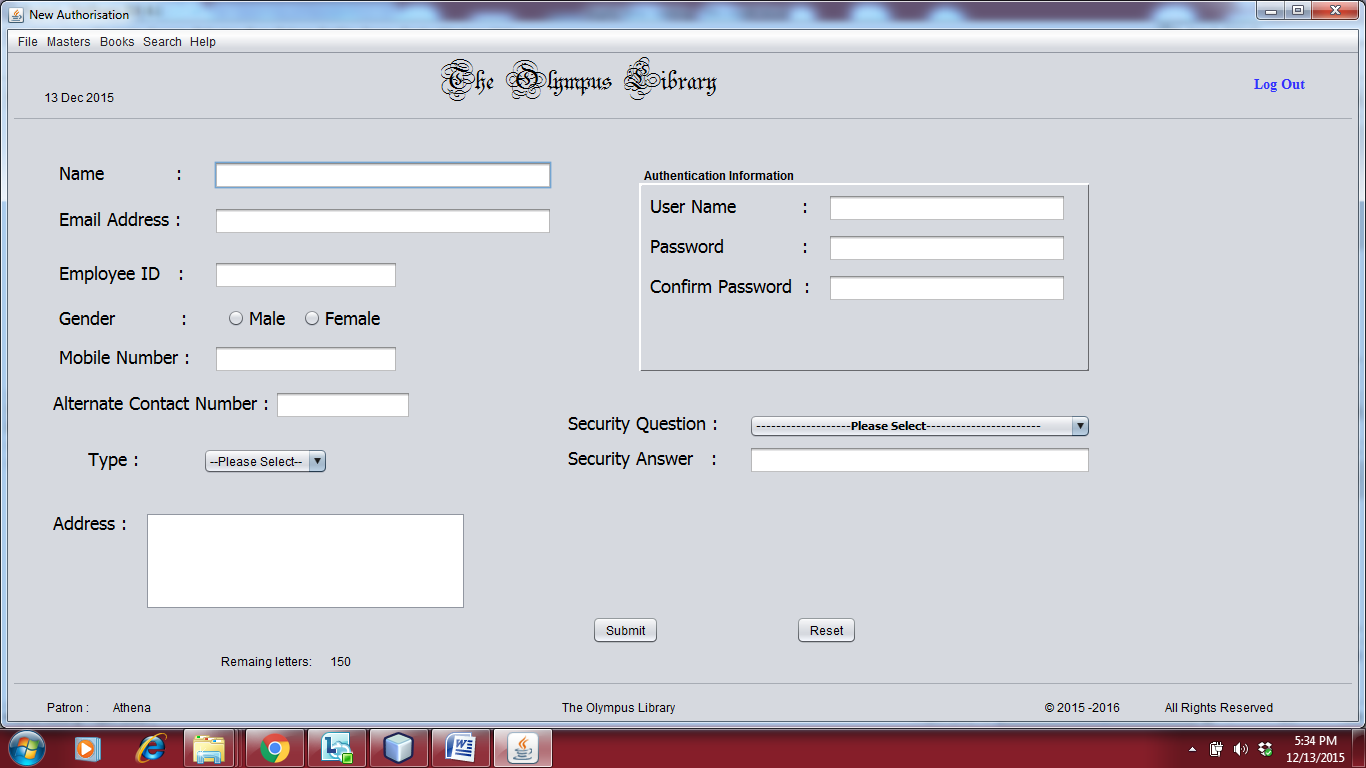
resetting();

}

1. Reset

resetting();

new authorized personnel



Component Used

1. TextFied
2. Label
3. ComboBox
4. Button
5. Text Area
6. RadioButton

Code

1. Submit Button

int employeeid=Integer.parseInt(jTextField2.getText());

String name=jTextField1.getText();

String email=jTextField4.getText();

String mobile=jTextField3.getText();

String altermobile=jTextField7.getText();

String type= (String) jComboBox1.getSelectedItem();

String address=jTextArea1.getText();

String UID=jTextField5.getText();

String sans=jTextField9.getText();

String pass=jPasswordField1.getText();

int sques=jComboBox2.getSelectedIndex();

String gender;

if(jRadioButton1.isSelected())

{

gender="M";

}

else

{

gender="F";

}

try

{

c=DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","");

stmt= c.createStatement();

String query1="insert into employee values("+employeeid+",'"+name+"','"+email+"','"+gender+"','"+type+"','"+address+"','"+mobile+"','"+altermobile+"');";

String query2="insert into security values("+employeeid+",'"+UID+"','"+pass+"',"+sques+",'"+sans+"');";

stmt.executeUpdate(query1);

stmt.executeUpdate(query2);

JOptionPane.showMessageDialog(this,"Successfully Added. Click Ok to continue!!!");

bahubali();

}

catch(Exception e)

{

System.out.println(e);

}

}

1. TextArea

int a=jTextArea1.getText().length();

jLabel12.setText((149-a)+"");

int b=Integer.parseInt(jLabel12.getText());

if(b==-1)

{

evt.consume();

jLabel12.setText(0+"");

}

char c=evt.getKeyChar();

if(c==KeyEvent.VK\_BACK\_SPACE || c==KeyEvent.VK\_DELETE)

{

jLabel12.setText((150-a)+"");

}

else if(c==KeyEvent.VK\_ENTER)

{

jLabel12.setText((150-a)+"");

}

}

1. Log Out Label

int a=JOptionPane.showConfirmDialog(this,"Do you wish to log out ?","Log Out Confirmation",0,0);

if(a==0)

{

System.out.println("Succes");

}

Cursor cur1=new Cursor(Cursor.HAND\_CURSOR);

jLabel14.setCursor(cur1);

1. Password Field

if(jPasswordField2.getText().matches("") || !jPasswordField2.getText().matches(jPasswordField1.getText()))

{

PasswordIndicator.setText("These passwords don't match. Try again?");

}

else

PasswordIndicator.setText("");

1. Mobile no. Text Field

String a=jTextField3.getText();

char c=evt.getKeyChar();

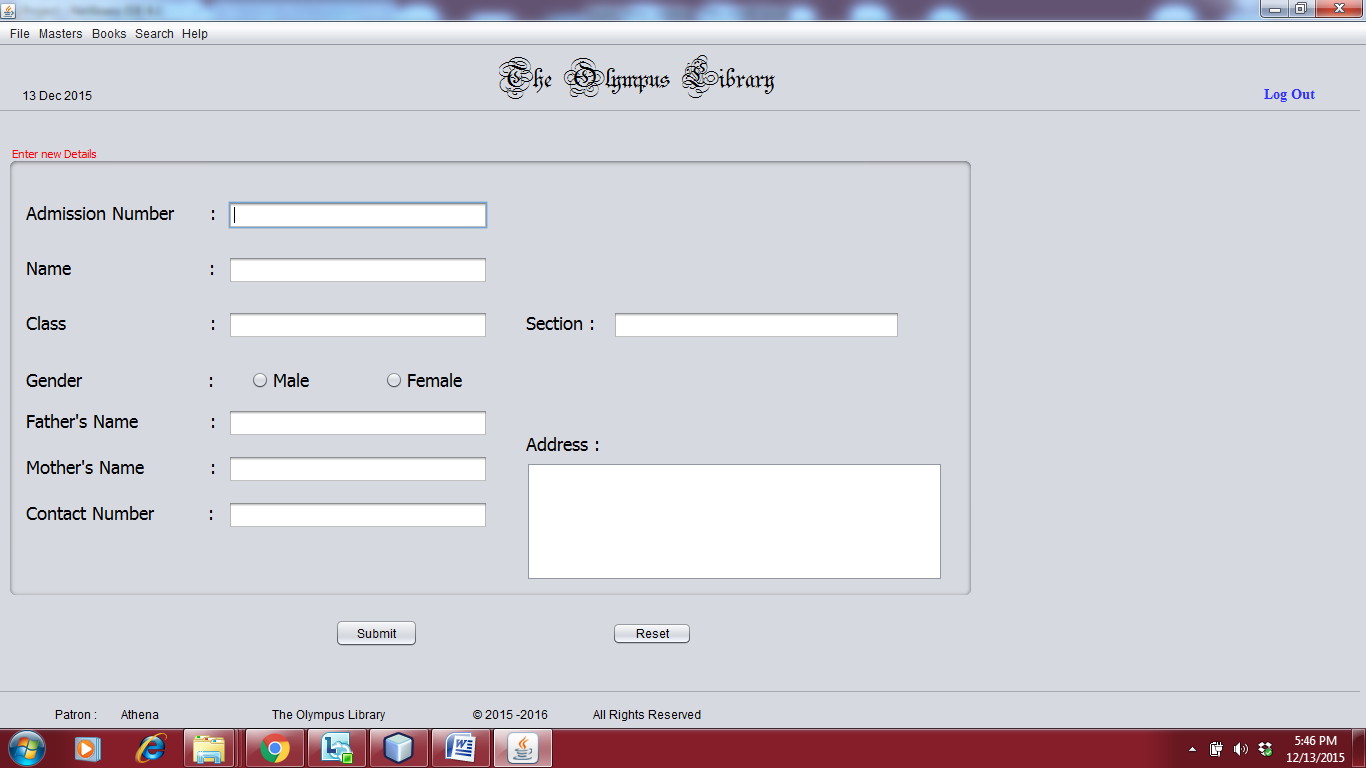
if(!(Character.isDigit(c) || c==KeyEvent.VK\_BACK\_SPACE || c==KeyEvent.VK\_DELETE))

{

getToolkit().beep();

evt.consume();

new student entry



Component Used

1. Text Area
2. TextField
3. Label
4. RadioButton
5. Button

Code

1. Submit Button

Connection c;

ResultSet rs;

Statement stmt;

String admn=(jTextField1.getText());

String sname=jTextField2.getText();

String clss=(jTextField3.getText());

String fname=jTextField4.getText();

String mname=jTextField7.getText();

String contactno=jTextField5.getText();

String section=jTextField6.getText();

String addr=jTextArea1.getText();

String g;

if (jRadioButton1.isSelected())

{

g="M";

}

else

{

g="F";

}

try

{

c=DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","");

stmt= c.createStatement();

String query="insert into STUDENT values('"+admn+"','"+sname+"','"+clss+"','"+section+"','"+g+"','"+fname+"','"+mname+"','"+addr+"','"+contactno+"');";

stmt.executeUpdate(query);

JOptionPane.showMessageDialog(this,"Successfully added. Click ok to continue!!!");

resetting();

}

catch (Exception e)

{

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

}

}

1. Reset Button

resetting();

1. Log Out Label

int a=JOptionPane.showConfirmDialog(this,"Do you wish to log out ?","Log Out Confirmation",0,0);

if(a==0)

{

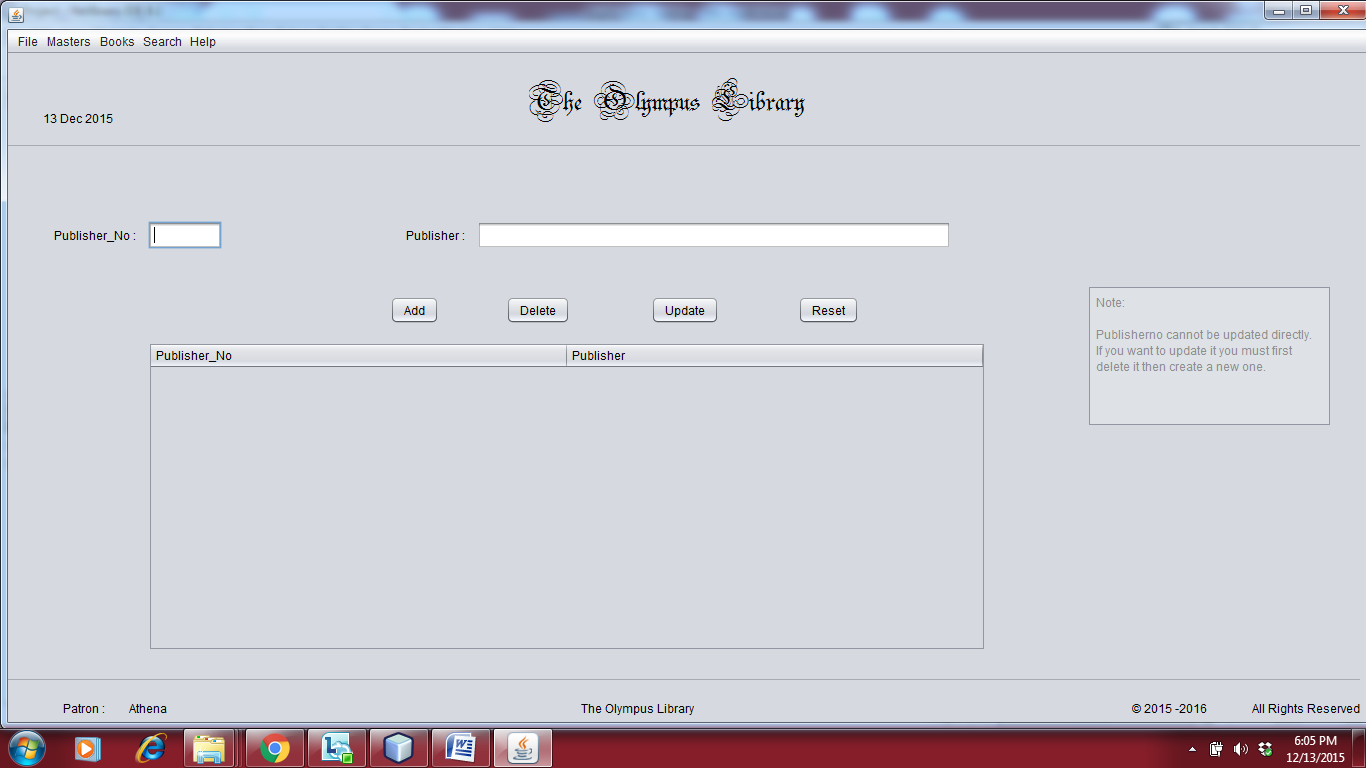
System.out.println("Succes");

}

Cursor cur1=new Cursor(Cursor.HAND\_CURSOR);

jLabel14.setCursor(cur1);

Publisher Master



Component Used

1. TextField
2. Label
3. Button

Code

1. Add Button

String publishername=jTextField2.getText();

String publisherno=jTextField1.getText();

try

{

c=DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","");

stmt= c.createStatement();

String query="insert into publisher values('"+publisherno+"','"+publishername+"');";

stmt.executeUpdate(query);

JOptionPane.showMessageDialog(this,"Data successfully added. Click 'Ok' to continue!!!");

albus();

}

catch (Exception e)

{

JOptionPane.showMessageDialog(this,"Something went haywire there, why don't you try again ?");

}

resetting();

}

1. Delete Button

String publisherno=jTextField1.getText();

int res= JOptionPane.showConfirmDialog(null,"Want to delete the record?");

if(res==JOptionPane.YES\_OPTION)

{

try

{

c=DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","");

stmt= c.createStatement();

String query="delete from publisher where publisher\_no="+publisherno+";";

stmt.executeUpdate(query);

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

albus();

}

catch (Exception e)

{

JOptionPane.showMessageDialog(this,"Something went haywire there, why don't you try again ?");

}

}

resetting();

}

1. Update Button

String publisherno=jTextField1.getText();

String publishername=jTextField2.getText();

int res= JOptionPane.showConfirmDialog(null,"Want to update the record?");

if(res==JOptionPane.YES\_OPTION)

{

try

{

c=DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","");

stmt= c.createStatement();

String query="update publisher set publisher\_name= '"+publishername+"' where publisher\_no='"+publisherno+"';";

stmt.executeUpdate(query);

JOptionPane.showMessageDialog(null,"Record Updated!");

albus();

}

catch (Exception e)

{

JOptionPane.showMessageDialog(this,"Something went haywire there, why don't you try again ?");

}

}

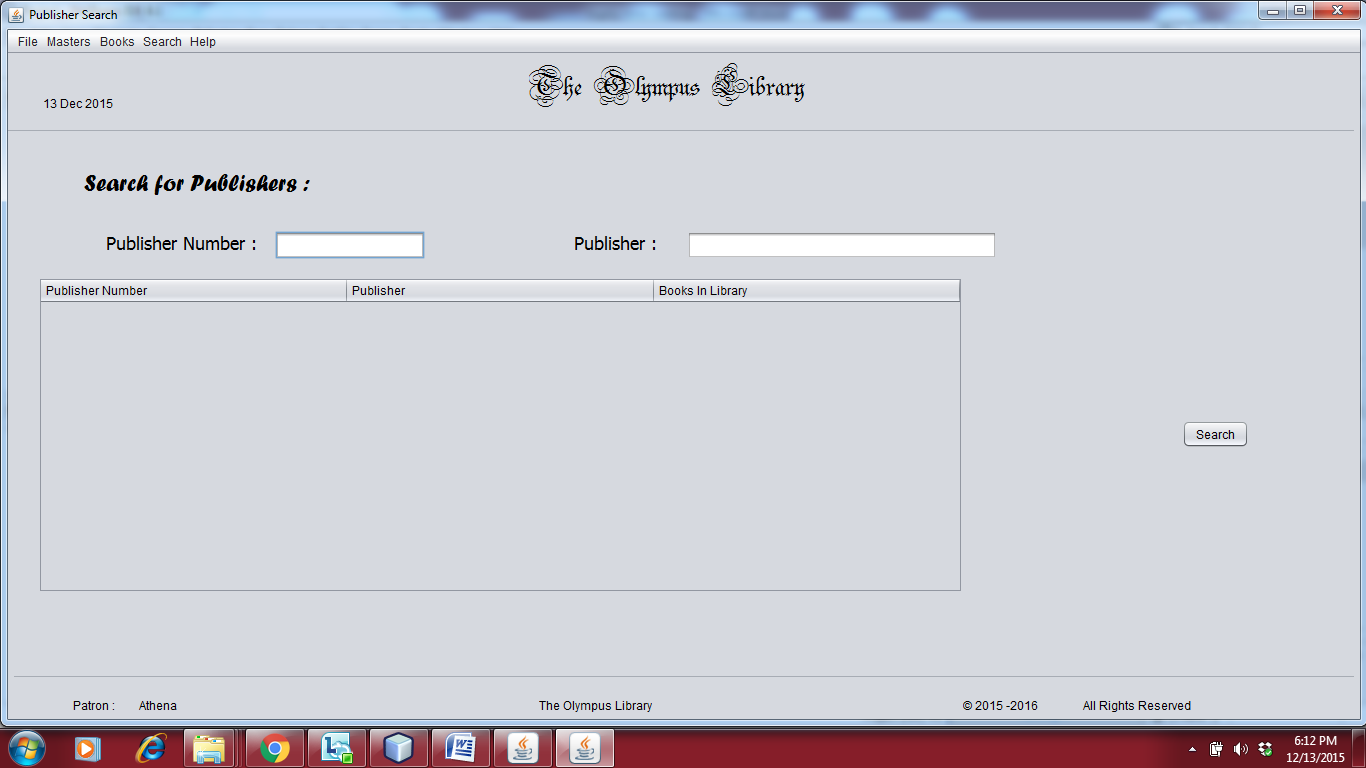
resetting();

}

4.Reset Button

resetting();

Publisher Search



Component Used

1. Table
2. TextField
3. Button
4. Label

Code

1. Search Button

DefaultTableModel model =(DefaultTableModel) jTable1.getModel();

int rows=model.getRowCount();

if (rows>0)

{

for(int i=0;i<rows;i++)

{

model.removeRow(0);

}

}

String publisherno=jTextField1.getText().trim();

String publishername=jTextField2.getText().trim();

try

{

c=DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","");

smt= c.createStatement();

String query="";

if(publisherno.matches(""))

{

query= "select publisher.publisher\_no,publisher\_name,count(name\_book) from publisher,book where publisher.publisher\_no=book.publisher\_no and Publisher\_Name like \"%"+publishername+"%\" group by book.publisher\_no";

}

else if(publishername.matches(""))

{

query= "select publisher.publisher\_no,publisher\_name,count(name\_book) from publisher,book where publisher.publisher\_no=book.publisher\_no and publisher.Publisher\_No='"+publisherno+"' group by book.publisher\_no;";

}

rs=smt.executeQuery(query);

while(rs.next())

{

model.addRow(new Object [] {

rs.getInt(1),rs.getString(2),rs.getString(3)});

}

if(jTable1.getRowCount()==0)

{

JOptionPane.showMessageDialog(this,"Search Complete. No record Found");

}

rs.close();

smt.close();

c.close();

resetting();

}

catch(Exception e)

{

System.out.print(e);

}

}

private void Start\_PageActionPerformed(java.awt.event.ActionEvent evt) {

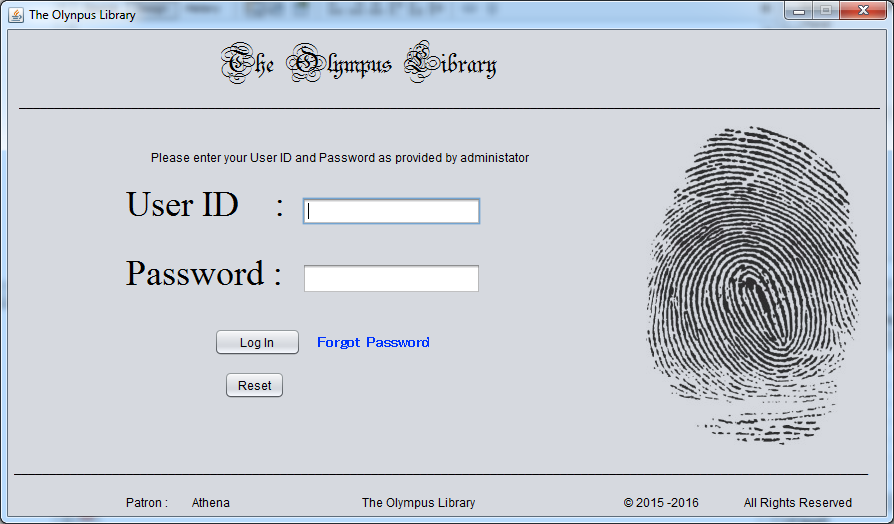
close();

Home\_Screen s= new Home\_Screen();

s.setVisible(true);

}

Security



Components Used

1. TextField
2. Button
3. PasswordField
4. Label

Code

1. Log In Button

try

{

c=DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","");

smt=c.createStatement();

rs=smt.executeQuery("select User\_Id,Password from security where User\_Id='"+jTextField1.getText()+"';");

rs.next();

char[] pass =jPasswordField1.getPassword();

String mn= new String(pass);

if(mn.matches(rs.getString("Password")))

{

close();

Home\_Screen s= new Home\_Screen();

s.setVisible(true);

jLabel8.setText("");

}

else

{

jLabel8.setText("The User Id and Password you entered don't match. Please Try Again.");

}

Statement smt1;

smt1=c.createStatement();

smt1.executeUpdate("insert into login\_info values('"+jTextField1.getText()+"',now());");

}

catch(Exception e)

{

jLabel8.setText("Something went haywire. Please Try Again.");

}

1. Forgot Password Label

try

{

c=DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","");

smt=c.createStatement();

rs=smt.executeQuery("select question,security\_answer from security,sques where User\_ID='"+jTextField1.getText()+"' and security\_question=sq\_id;");

rs.next();

String m=rs.getString(1);

String n=rs.getString(2);

while(i<=3)

{

String ans=JOptionPane.showInputDialog(this,m,"Security Question",2);

if(n.equals(ans))

{

close();

Home\_Screen s= new Home\_Screen();

s.setVisible(true);

break;

}

else

{

JOptionPane.showMessageDialog(this,"Oops ! Wrong Answer ! You have "+(3-i)+" more chance to try");

}

i++;

}

}

catch(Exception e)

{

JOptionPane.showMessageDialog(this,"Your User\_Id doesn't seem to be right");

}

Cursor cur1=new Cursor(Cursor.HAND\_CURSOR);

jLabel10.setCursor(cur1);

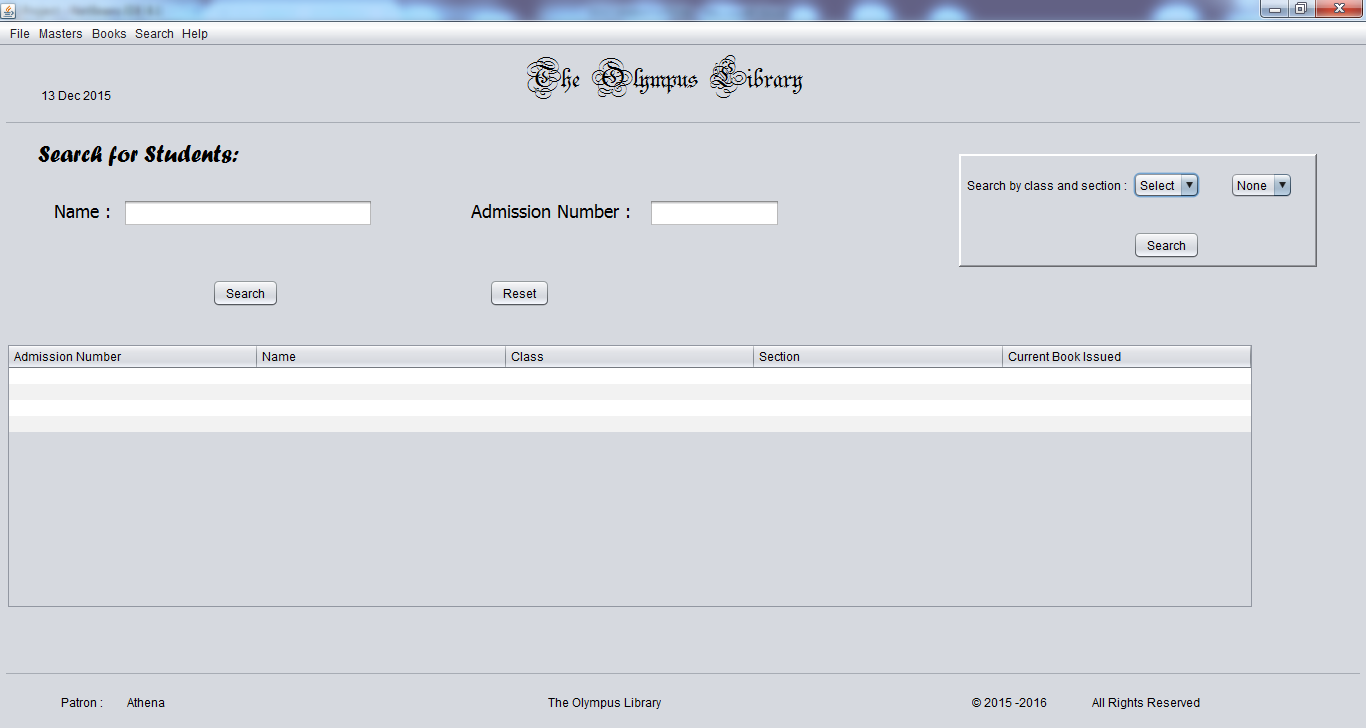
1. Reset Button

jTextField1.setText("");

jPasswordField1.setText("");

jLabel8.setText("");

Student search



Components Used

1. TextField
2. Button
3. Tabel
4. Label
5. ComboBox

Code

1. Search1 Button

DefaultTableModel model =(DefaultTableModel) jTable1.getModel();

int rows=model.getRowCount();

if (rows>0)

{

for(int i=0;i<rows;i++)

{

model.removeRow(0);

}

}

String name=jTextField1.getText().trim();

String admissionno=jTextField2.getText().trim();

try

{

c=DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","");

smt= c.createStatement();

String query="";

if(admissionno.matches(""))

{

query="select admission\_no,name,class,section from student where name like \"%"+name+"%\";";

}

else if(name.matches(""))

{

query="select admission\_no,name,class,section from student where admission\_no='"+admissionno+"';";

}

rs=smt.executeQuery(query);

rs.next();

String as=rs.getString(1);

rs.close();

String query1="select Accesion\_number,count(\*) from book\_issued where admission\_no='"+as+"'";

rs1=smt.executeQuery(query1);

rs1.next();

if(!rs1.getString(2).matches("0"))

{

int Accno=Integer.parseInt(rs1.getString(1));

String query2="select name\_book from book where Accession\_no='"+Accno+"';";

rs2=smt.executeQuery(query2);

rs2.next();

bookname=rs2.getString(1);

}

else

{

bookname="Not Issued";

}

rs=smt.executeQuery(query);

while(rs.next())

{

model.addRow

(

new Object []

{

rs.getInt(1),rs.getString(2),rs.getString(3),rs.getString(4),bookname

}

);

}

rs.close();

smt.close();

c.close();

resetting();

}

catch(Exception e)

{

if(e.getMessage().matches("Illegal operation on empty result set."))

{

JOptionPane.showMessageDialog(this,"Search Complete. No record Found");

}

}

}

1. Search 2 Button

int clas=jComboBox1.getSelectedIndex();

String sectn=jComboBox2.getSelectedItem().toString();

DefaultTableModel model =(DefaultTableModel) jTable1.getModel();

int rows=model.getRowCount();

if (rows>0)

{

for(int i=0;i<rows;i++)

{

model.removeRow(0);

}

}

try

{

c=DriverManager.getConnection("jdbc:mysql://localhost:3306/project","root","");

smt= c.createStatement();

String query= "select admission\_no, name, class, section from student where class="+clas+" and section='"+sectn+"';";

rs=smt.executeQuery(query);

while(rs.next())

{

model.addRow(new Object [] {

rs.getInt(1),rs.getString(2),rs.getString(3),rs.getString(4),

});

}

rs.close();

smt.close();

c.close();

}

catch(Exception e)

{

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

}

}