

# **OTHER PROJECT**

## **JFRAME + MYSQL**

My small project: **BEM // BEST EMPLOYEE OF THE  
MONTH**

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Class: **L2CC**

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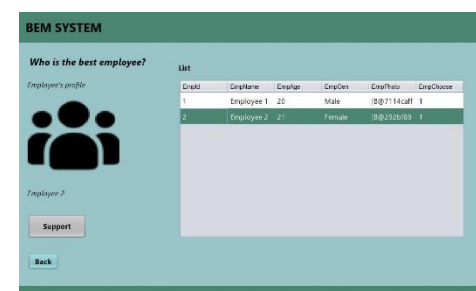
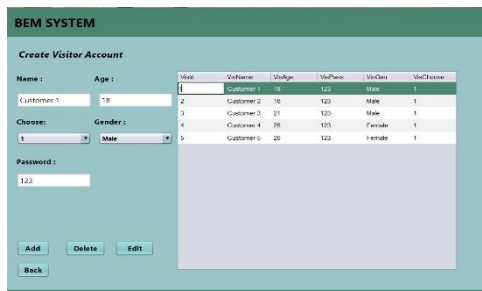
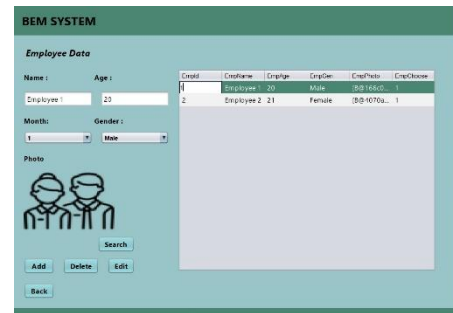
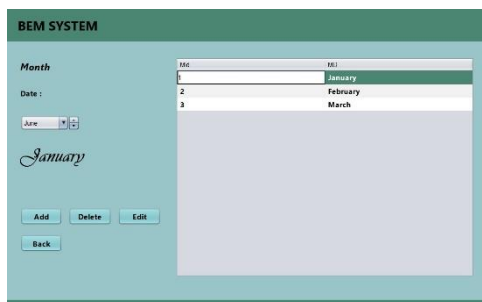
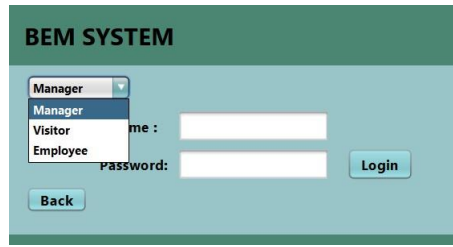
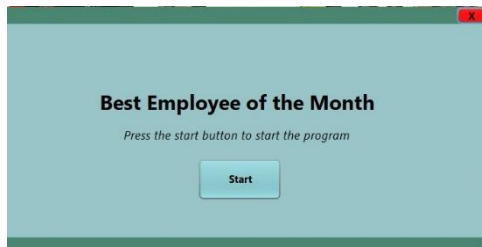
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JAVA + MySQL project

GUI Frame by using JFrame - NetBeans



# SQL DATA

These are the SQL tables that I created:

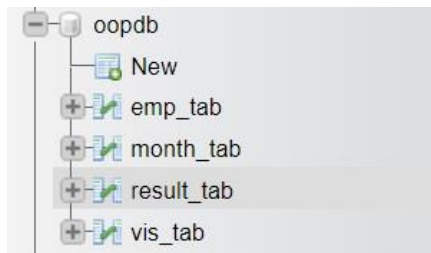


Table	Action	Rows	Type	Collation	Size	Overhead
emp_tab		2	InnoDB	utf8mb4_general_ci	16.0 KiB	-
month_tab		3	InnoDB	utf8mb4_general_ci	16.0 KiB	-
result_tab		5	InnoDB	utf8mb4_general_ci	16.0 KiB	-
vis_tab		5	InnoDB	utf8mb4_general_ci	16.0 KiB	-
4 tables	Sum	15	InnoDB	utf8mb4_general_ci	64.0 KiB	0 B

	EmpId	EmpName	EmpAge	EmpGen	EmpPhoto	EmpChoose
<input type="checkbox"/>	1	Employee 1	20	Male	[BLOB - 2.8 KiB]	1
<input type="checkbox"/>	2	Employee 2	21	Female	[BLOB - 1.5 KiB]	1

	MId	MD
<input type="checkbox"/>	1	January
<input type="checkbox"/>	2	February
<input type="checkbox"/>	3	March

	VisId	VisName	VisAge	VisPass	VisGen	VisChoose
<input type="checkbox"/>	1	Customer 1	18	123	Male	1
<input type="checkbox"/>	2	Customer 2	16	123	Male	1
<input type="checkbox"/>	3	Customer 3	21	123	Male	1
<input type="checkbox"/>	4	Customer 4	25	123	Female	1
<input type="checkbox"/>	5	Customer 5	26	123	Female	1

	RId	VisId	MId	EmpId
<input type="checkbox"/>	1		1	1
<input type="checkbox"/>	2	3	1	1
<input type="checkbox"/>	4	5	1	2
<input type="checkbox"/>	5	1	1	2
<input type="checkbox"/>	6	4	1	2

Click the drop-down arrow  
to toggle column's visibility.

## CODE EXPLANATION: ( the explanation is on the pictures)

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### Libraries needed to be downloaded:

Jcalendar.jar = for adding month

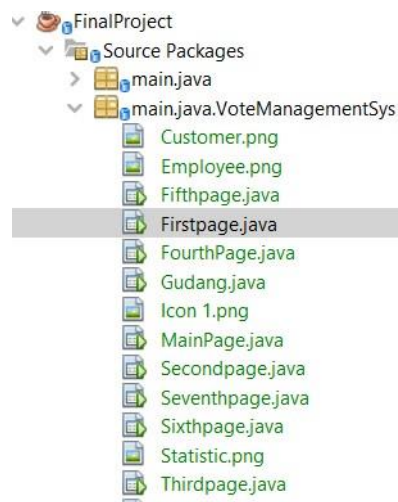
Dbutils. Jar = helping manipulating table

Rs2xml.jar

Mysql-connector-java.jar = connecting to sql database

I use XAMPP.

### The classes:



## Firstpage class

```
1 // The package that contains my final project
2 package main.java.VoteManagementSys;
3 public class Firstpage extends javax.swing.JFrame {
4
5     //The first page only use JFrame, and the code is only in the Start Button
6     //By using NetBeans, I only need to design the JFrame and the function are
7     //automatically created in the Source Code.
8     public Firstpage() {
9         initComponents(); //initializing the component of firstpage
10    }
11
12    private void StartMouseClicked(java.awt.event.MouseEvent evt) {
13        new Secondpage().setVisible(true); //this will show the second page
14        this.dispose(); //disposing this page (first page)
15    }
16
17    private void StartActionPerformed(java.awt.event.ActionEvent evt) { ...3 line
18
19    private void ExitMouseClicked(java.awt.event.MouseEvent evt) {
20        //to exit the program; doesn't redirect to other page;
21        //only disposing this page.
22        this.dispose();
23    }
24
25    /* Create and display the form */
26    java.awt.EventQueue.invokeLater(new Runnable() {
27        public void run() {
28            //running the first page inside main funct
29            new Firstpage().setVisible(true);
30        }
31    });
32 }
```

## Secondpage class

```
1 package main.java.VoteManagementSys;
2
3
4 //IMPORT PACKAGES
5 import javax.swing.JOptionPane; //for showing message
6 //for connection purposes
7 import java.sql.Connection;
8 import java.sql.PreparedStatement;
9 import java.sql.ResultSet;
10 import java.sql.Statement;
11 //to connect with the database
12 import java.sql.DriverManager;
13
14 public class Secondpage extends javax.swing.JFrame {
15     // We need to connect the database in mysql library
16     /* First thing I did is connecting the database to my compiler by going to the
17     "Services" in NetBeans, then add new database.
18     From that, I got the link :
19     jdbc:mysql://localhost:3306/oopdb?zeroDateTimeBehavior=CONVERT_TO_NULL [root on Default schema]
20     Then, I deleted until it becomes : jdbc:mysql://localhost:3306/oopdb.
21     I learned this from Youtube Tutorials.
22     */
23
24     Connection Con = null;
25     PreparedStatement pst = null;
26     ResultSet Rs = null;
27     Statement St = null;
28
29     //I assigned some string for connection purpose.
30     String url = "jdbc:mysql://localhost:3306/oopdb";
31     String user = "root";
32     String pass = "";
33
34     public Secondpage() {
35         initComponents();
36     }
37
38     private void ButtonMouseClicked(java.awt.event.MouseEvent evt) {
39         /*ButtonL is actually Login Button
40         If operator; ChooseL is the part where you can choose between Manager, Employee
41         or Visitor.
42         */
43
44         //Index = -1; is if none of the 3 are selected
45         if (ChooseL.getSelectedIndex() == -1) {
46             JOptionPane.showMessageDialog(this, "Select between Manager, Employee, or Visitor!");
47         }
48         //Index = 0 is for Manager, 1 for Visitor, and 2 for Employee.
49         else if (ChooseL.getSelectedIndex() == 0) {
50             //if one of them is empty ; shows "Information incomplete"
51             if (NameL.getText().isEmpty() || PassL.getText().isEmpty()) {
52                 JOptionPane.showMessageDialog(this, "Information incomplete!");
53             }
54             //Setting the Name of manager account and Password.
55             else if (NameL.getText().equals("Manager") && PassL.getText().equals("Password")) {
56                 //If the condition is fulfilled, it will redirect you to the MainPage
57                 new MainPage().setVisible(true);
58                 this.dispose();
59             }
60             /*If the Information is wrong, it gives incorrect input message
61             whilst emptying the name and pass.*/
62             else {
63                 JOptionPane.showMessageDialog(this, "Incorrect input!");
64                 NameL.setText("");
65                 PassL.setText("");
66             }
67         }
68     }
69 }
```

```

249 }else if(ChooseL.getSelectedIndex()==1){
250     /*This is for the visitor, the visitor must be registered by the Manager first
251     Manager will be able to set up the username and password of the visitor.
252     */
253     String Q = " Select * from vis_tab where VisName='"+
254     NameL.getText()+"'and VisPass= '"+PassL.getText()+"'";
255     /* String Q = " Select * from ctab where CName='"+
256     NameL.getText()+"'and CPass= '"+PassL.getText()+"'";
257     */
258     try{
259         // To connect with the database
260         // By using the assigned variables and statement.
261         Con = DriverManager.getConnection(url,user,pass);
262         St = Con.createStatement();
263         Rs = St.executeQuery(Q);
264         if(Rs.next()){
265             new Sixthpage(Rs.getInt(1)).setVisible(true);
266             this.dispose();
267         }else{
268             JOptionPane.showMessageDialog(this,"Incorrect password or username!");
269         }
270     }
271     catch(Exception e){
272         JOptionPane.showMessageDialog(this, e);
273     }
274 }
275 }else if(ChooseL.getSelectedIndex()==2){
276     //this one is for employee; the employee username and password is already assigned
277     if(NameL.getText().isEmpty()||PassL.getText().isEmpty()){
278         JOptionPane.showMessageDialog(this,"Information incomplete!");
279     }
280     else if(NameL.getText().equals("Employee")&&PassL.getText().equals("Password")){
281         new Seventhpage().setVisible(true); //The employee username and pass is also set in here
282         //if the condition is correct it will redirect you to the seventhpage
283         this.dispose();
284     }
285     else{
286         JOptionPane.showMessageDialog(this,"Incorrect input!");
287         NameL.setText(""); //incorrect input reset the text and pass to null
288         PassL.setText("");
289     }
290 }
291 }
292 }

```

```

303 private void BackMouseClicked(java.awt.event.MouseEvent evt) {
304     //The back button will redirect you to the first page
305     new Firstpage().setVisible(true);
306     this.dispose();
307 }
308
309 public static void main(String args[]) {
310
311     java.awt.EventQueue.invokeLater(new Runnable() {
312         public void run() {
313             new Secondpage().setVisible(true);
314         }
315     });
316 }
317
318 }
319
320
321
322

```



## Thirdpage class

```
1
2 package main.java.VoteManagementSys;
3
4 //Connection purposes
5 import java.sql.PreparedStatement;
6 import java.sql.Connection;
7 import java.sql.ResultSet;
8 import java.sql.Statement;
9 import java.sql.DriverManager;
10 //For showing message
11 import javax.swing.JOptionPane;
12 //To be able to use DbUtils
13 //To use (net) u should include Rs2Xml file first.
14 //This is then use to manipulate table
15 // "www.youtube.com/watch?v=4nvTwvFWt7I"
16 import net.proteanit.sql.DbUtils;
17 import javax.swing.table.DefaultTableModel;
18
19 public class Thirdpage extends javax.swing.JFrame {
20     //I copied from the page before
21     Connection Con = null;
22     PreparedStatement pst = null;
23     ResultSet Rs = null;
24     Statement St = null;
25
26     String url = "jdbc:mysql://localhost:3306/oopdb";
27     String user = "root";
28     String pass = "";
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```



```

301 String m = "";
302 private void MonthString(){
303     //Function that is used to getting the Month String from its interger value;
304     String Month = String.valueOf(VARMONTH.getMonth()+1);
305     if ("1".equals(Month)){m = "January";}else if("2".equals(Month)){m = "February";}
306     else if("3".equals(Month)){m = "March";}else if("4".equals(Month)){m = "April";}
307     else if("5".equals(Month)){m = "May";}else if("6".equals(Month)){m = "June";}
308     else if("7".equals(Month)){m = "July";}else if("8".equals(Month)){m = "August";}
309     else if("9".equals(Month)){m = "September";}else if("10".equals(Month)){m = "October";}
310     else if("11".equals(Month)){m = "November";}else if("12".equals(Month)){m = "December";}
311
312 }

```

```

313 private void AddMonthMouseClicked(java.awt.event.MouseEvent evt) {
314     // Code adding election
315     if(MonthLabel.getText().isEmpty()){
316         JOptionPane.showMessageDialog(this, "Error");
317     }else{
318         try{
319             //For the Month
320             //I add 1, because I encountered a problem when I entered a month
321             //it shows the month number -1.
322             String Month = String.valueOf(VARMONTH.getMonth()+1);
323             MonthString();
324             //For ID purpose.
325             CalculateMonthID();
326             //Connecting the data from mysql to java
327
328             Con=DriverManager.getConnection(url,user,pass);
329             //Inserting data to mysql
330             //There are 2 data in the my sql so the ? is 2
331             PreparedStatement Add = Con.prepareStatement("Insert into month_tab values (?,?)");
332
333             Add.setInt(1,MId);
334             //Add.setString(2,ElectionNameTb.getText());
335             //Add.setString(3, EDate);
336             Add.setString(2,m);
337             int row = Add.executeUpdate();
338             JOptionPane.showMessageDialog(this, "Month Successfully added");
339             //closing the connection
340             Con.close();
341             MonthDisplay();
342
343         }catch (Exception e){
344             JOptionPane.showMessageDialog(this, e);
345         }
346     }
347 }
348 }

```

```

350 int n = -1;
351 private void MonthtableMouseClicked(java.awt.event.MouseEvent evt) {
352     //when you click the event of the election, the name will be filled with
353     //the event name that you clicked.
354     DefaultTableModel model = (DefaultTableModel)Monthtable.getModel();
355     int Index = Monthtable.getSelectedRow();
356     //index 0 is the MonthId
357     n = Integer.valueOf(model.getValueAt(Index,0).toString());
358     MonthLabel.setText(model.getValueAt(Index, 1).toString());
359
360 }
361

```

```

363 private void DeleteMonthMouseClicked(java.awt.event.MouseEvent evt) {
364     if(n == -1){
365         //If none of the option is clicked
366         JOptionPane.showMessageDialog(this, " Which one you want to delete? ");
367     }else{
368         try{
369             //connection
370             Con=DriverManager.getConnection(url,user,pass);
371             String Q = " Delete from month_tab where MId = "+n;
372             Statement Delt = Con.createStatement();
373             Delt.executeUpdate(Q);
374             //When the statement is executed, it'll show Month is deleted.
375             JOptionPane.showMessageDialog(this,"Month is deleted! ");
376             MonthDisplay();
377         }catch(Exception e){
378             JOptionPane.showMessageDialog(this,e);
379         }
380     }
381 }
382

```

```

385 private void EditMonthMouseClicked(java.awt.event.MouseEvent evt) {
386     if(n == -1 || String.valueOf(VARMONTH.getMonth()).toString().isEmpty()){
387         JOptionPane.showMessageDialog(this, " Missing information ");
388     }else{
389         try{
390             //Month
391             String Month = String.valueOf(VARMONTH.getMonth()+1);
392             MonthString();
393             //connecting to the month-tab and updating it by using UpdateQuery
394             Con=DriverManager.getConnection(url,user,pass);
395             String Q = "Update month_tab set MD=? where MId=? ";
396             PreparedStatement UpdateQuery = Con.prepareStatement(Q);
397             UpdateQuery.setString(1, m);
398             UpdateQuery.setInt(2, n);
399             UpdateQuery.executeUpdate();
400             //Indicate if the month is edited
401             JOptionPane.showMessageDialog(this,"The Month is edited! ");
402             //Dipslaying the updated table
403             MonthDisplay();
404         }catch(Exception e){
405             JOptionPane.showMessageDialog(this,e);
406         }
407     }
408

```

```

410 private void BackMonthMouseClicked(java.awt.event.MouseEvent evt) {
411     //The Back Button will redirect you to the MainPage.
412     new MainPage().setVisible(true);
413     this.dispose();
414 }

```

```

416 public static void main(String args[]) {
417     java.awt.EventQueue.invokeLater(new Runnable() {
418         public void run() {
419             new Thirdpage().setVisible(true);
420         }
421     });
422 }
423
424

```

## Fourthpage class

```

1 package main.java.VoteManagementSys;
2
3 //Connection purposes
4 import java.sql.PreparedStatement;
5 import java.sql.Connection;
6 import java.sql.ResultSet;
7 import java.sql.Statement;
8 import java.sql.DriverManager;
9 //For message
10 import javax.swing.JOptionPane;
11 //For picture uploading
12 import java.io.File;
13 import java.io.FileInputStream;
14 import java.io.InputStream;
15 import javax.swing.JFileChooser;
16 import java.awt.Image;
17 import javax.swing.ImageIcon;
18 import javax.swing.filechooser.FileNameExtensionFilter;
19 /*To be able to use DbUtils
20 To use (net) u should include Rs2Xml file first.
21 This is then use to manipulate table
22 "www.youtube.com/watch?v=4nvTwvfWt7I"
23 */
24 import net.proteanit.sql.DbUtils;
25 import javax.swing.table.DefaultTableModel;
26
27 public class FourthPage extends javax.swing.JFrame {
28     //Copied from page before
29     Connection Con = null;
30     PreparedStatement pst = null;
31     ResultSet Rs = null;
32     Statement St = null;
33
34     String url = "jdbc:mysql://localhost:3306/oopdb";
35     String user = "root";
36     String pass = "";
37
38
39     public FourthPage() {
40         initComponents();
41         GetChooseOption();
42         EmployeeDisplay();
43     }
44

```

```

399 private void EMPSEARCHActionPerformed(java.awt.event.ActionEvent evt) {
400     // TODO add your handling code here:
401 }
402
403 int EmpId = 0;
404 Statement St1;
405 ResultSet Rs1;
406 //Same function with the CalculateMonthID
407 private void CalculateEmpID()
408 {
409     try{
410         St1 = Con.createStatement();
411         Rs1 = St1.executeQuery("Select MAX(EmpId) from emp_tab");
412         Rs1.next();
413         EmpId = Rs1.getInt(1)+1; // getInt(1) is the row of the table.
414     }catch(Exception Ex){
415     }
416 }
417
418
419 //to search for picture in your computer
420 String imgpath = null;
421 private void EMPSEARCHMouseClicked(java.awt.event.MouseEvent evt) {
422     JFileChooser chooser = new JFileChooser();
423     //Setting the current directory to user.home
424     //user.home contains the comp personal files
425     chooser.setCurrentDirectory(new File(System.getProperty("user.home")));
426     //To make sure that only photos are able to be added; not other type of files, i.e. docs,etc.
427     FileNameExtensionFilter filter = new FileNameExtensionFilter(" *.Images", "gif", "pdf", "jpg", "png");
428     chooser.addChoosableFileFilter(filter);
429     int result = chooser.showSaveDialog(null);
430     if(result == JFileChooser.APPROVE_OPTION){
431         File selectedFile = chooser.getSelectedFile();
432         String path = selectedFile.getAbsolutePath();
433         //Setting the picture whilst sizing it with funct sizingpict.
434         EMPPICT.setIcon(SizingPict(path, null));
435         imgpath = path;
436     }
437
438 }
439

```



```

441 private void EMPADDMouseClicked(java.awt.event.MouseEvent evt) {
442     if(EMPNAME.getText().isEmpty() || EMPAGE.getText().isEmpty() ||
443         EMPCHOOSE.getSelectedIndex() == -1 || EMPGENDER.getSelectedIndex() == -1) {
444         JOptionPane.showMessageDialog(this, "Information incomplete!");
445     }else{
446         try{
447             CalculateEmpID();//calling the CalculateEmpID for updating EmpId
448             //Connecting to mysql
449             Con=DriverManager.getConnection(url,user,pass);
450             //accessing the emp_tab in mysql ; there are 6 variables in emp_tab
451             PreparedStatement Add = Con.prepareStatement("insert into emp_tab values (?, ?, ?, ?, ?, ?)");
452             //the setting of the table
453             Add.setInt(1,EmpId);
454             Add.setString(2, EMPNAME.getText());
455             Add.setInt(3, Integer.valueOf(EMPAGE.getText()));
456             Add.setString(4, EMPGENDER.getSelectedItem().toString());
457             InputStream img = new FileInputStream(imgpath);
458             Add.setBlob(5, img);
459             Add.setInt(6, Integer.valueOf(EMPCHOOSE.getSelectedItem().toString()));
460             //executing the new table data
461             int row = Add.executeUpdate();
462             JOptionPane.showMessageDialog(this, "Employee is registered!");
463             Con.close();
464             //Calling the employee display, to update when add is clicked.
465             EmployeeDisplay();
466         }catch(Exception e){
467             JOptionPane.showMessageDialog(this, e);
468         }
469     }
470 }
471 //To make sure the photo is not too big, or equals to the decided size in the JFrame
472 private ImageIcon SizingPict( String ImagePath, byte [] pic){
473     ImageIcon EmpImage = null;
474     if(ImagePath != null){
475         EmpImage = new ImageIcon(ImagePath);
476     }else{
477         EmpImage = new ImageIcon(pic);
478     }
479     Image img = EmpImage.getImage();
480     //Scaling it with the size of the JFrame EMPPICT
481     Image newImg = img.getScaledInstance(EMPPICT.getWidth(), EMPPICT.getHeight(), Image.SCALE_SMOOTH);
482     ImageIcon image = new ImageIcon(newImg);
483     return image;
484 }
485 //function that display the picture
486 private void PhotoDisplay()
487 {
488     String Q = "Select EmpPhoto from emp_tab where EmpId="+n ;
489     Statement St;
490     ResultSet Rs;
491     try{
492         Con = DriverManager.getConnection(url,user,pass);
493         St = Con.createStatement();
494         Rs = St.executeQuery(Q);
495         if(Rs.next()){
496             EMPPICT.setIcon(SizingPict(null,Rs.getBytes("EmpPhoto")));
497         }
498     }catch(Exception e){
499     }
500 }
501 }

```

```

484 //function that display the picture
485 private void PhotoDisplay()
486 { ...16 lines }
502 //Display function, to display employee data to the table
503 private void EmployeeDisplay() {
504     try{
505         //connecting to the sql
506         Con = DriverManager.getConnection(url,user,pass);
507         St = Con.createStatement();
508         //accessing the emp_table in mysql
509         Rs = St.executeQuery("Select * from emp_tab");
510         //setting the data to table model
511         EmpTable.setModel(DbUtils.resultSetToTableModel(Rs));
512     } catch (Exception ex) {
513
514     }
515 }
516 int n = -1;
517 private void EmpTableMouseClicked(java.awt.event.MouseEvent evt) {
518     DefaultTableModel model = (DefaultTableModel)EmpTable.getModel();
519     //When you click the table in employee page, these info will be shown
520     int Index = EmpTable.getSelectedRow();
521     n = Integer.valueOf(model.getValueAt(Index,0).toString());
522     EMPNAME.setText(model.getValueAt(Index, 1).toString());
523     EMPAGE.setText(model.getValueAt(Index, 2).toString());
524     EMPGENDER.setSelectedItem(model.getValueAt(Index, 3).toString());
525     EMPCHOOSE.setSelectedItem(model.getValueAt(Index,5).toString());
526     PhotoDisplay();
527
528 }

```

```

529 private void GetChooseOption() {
530     try{
531         //Connecting it with the thirdpage data
532         //The month data is there; it will be on the Choose part in fourpage.
533         Con=DriverManager.getConnection(url,user,pass);
534         St = Con.createStatement();
535         String Q = "Select * from month_tab";
536         Rs = St.executeQuery(Q);
537         while(Rs.next())
538         {
539             String Mid2 = Rs.getString("Mid");
540             EMPCHOOSE.addItem(Mid2);
541         }
542     }catch(Exception e){
543     }
544 }

545 private void EMPDELETEmouseClicked(java.awt.event.MouseEvent evt) {
546     if(n == -1){
547         //if none from the table is clicked n = -1
548         JOptionPane.showMessageDialog(this, " Which one you want to delete? ");
549     }else{
550         try{
551             Con=DriverManager.getConnection(url,user,pass);
552             String Q = " Delete from emp_tab where EmpId = "+n;
553             Statement Delt = Con.createStatement();
554             //The delete execution; deleting the data from the sql
555             Delt.executeUpdate(Q);
556             JOptionPane.showMessageDialog(this,"Election is deleted! ");
557             EmployeeDisplay();
558         }catch(Exception e){
559             JOptionPane.showMessageDialog(this,e);
560         }
561     }
562 }

563 private void EMPEDITmouseClicked(java.awt.event.MouseEvent evt) {
564     if (imgpath !=null){
565         try{
566             //overwrite the img with new file
567             InputStream img = new FileInputStream(imgpath);
568 
569             Con=DriverManager.getConnection(url,user,pass);
570             String Q = " Update emp_tab set EmpName=?,EmpAge=?,EmpGen=?,EmpPhoto=?,EmpChoose=? where EmpId=?";
571             PreparedStatement UpdateQuery = Con.prepareStatement(Q);
572             UpdateQuery.setString(1, EMPNAME.getText());
573             UpdateQuery.setInt(2, Integer.valueOf(EMPAGE.getText().toString()));
574             UpdateQuery.setString(3, EMPGENDER.getSelectedItem().toString());
575             UpdateQuery.setBlob(4, img);
576             UpdateQuery.setString(5, EMPCHOOSE.getSelectedItem().toString());
577             UpdateQuery.setInt(6,n);
578             UpdateQuery.executeUpdate();
579             if(UpdateQuery.executeUpdate() ==1){
580                 JOptionPane.showMessageDialog(this,"Employee is edited! ");
581                 //To update the table visual
582                 EmployeeDisplay();
583             }else{
584                 //if some of the info is not filled
585                 JOptionPane.showMessageDialog(this,"Information incomplete!");
586             }
587         }catch(Exception e){
588             JOptionPane.showMessageDialog(this,e);
589         }
590     }else{
591         JOptionPane.showMessageDialog(this,"Select the photo!");
592         EMPPICT.setIcon(null);
593         EMPPICT.setText("");
594     }
595 }

```



```

601     private void EMPBACKMouseClicked(java.awt.event.MouseEvent evt) {
602         //The back button will redirect you to the MainPage
603         new MainPage().setVisible(true);
604         this.dispose();
    }

```

## Fifthpage class

```

1  package main.java.VoteManagementSys;
2  //For connection purposes
3  import java.sql.PreparedStatement;
4  import java.sql.Connection;
5  import java.sql.ResultSet;
6  import java.sql.Statement;
7  import java.sql.DriverManager;
8  //For showing message
9  import javax.swing.JOptionPane;
10 //For table manipulation
11 import net.proteanit.sql.DbUtils;
12 import javax.swing.table.DefaultTableModel;
13
14
15 public class Fifthpage extends javax.swing.JFrame {
16     //Copied code from pages before.
17     Connection Con = null;
18     PreparedStatement pst = null;
19     ResultSet Rs = null;
20     Statement St = null;
21
22     String url = "jdbc:mysql://localhost:3306/ooopdb";
23     String user = "root";
24     String pass = "";
25
26     public Fifthpage() {
27         //initializing the component
28         initComponents();
29         //calling functions
30         GetChooseOption();
31         VisDisplay();
32     }
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
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61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82     private void GetChooseOption(){
83         try{
84             //Connecting it with the thirdpage data
85             //The month data is there; it will be on the Choose part in fourpage.
86             Con=DriverManager.getConnection(url,user,pass);
87             St = Con.createStatement();
88             String Q = "Select * from month_tab";
89             Rs = St.executeQuery(Q);
90             //rs.next moves cursor forward from its current position
91             while(Rs.next())
92             {
93                 String MId2 = Rs.getString("MId");
94                 VISCHOOSE.addItem(MId2);
95             }
96         }catch(Exception e){
97
98         }
99     }
100

```

```

401     int VisId ;
402     Statement St1;
403     ResultSet Rs1;
404     //Same function with CalculateMonthID
405     private void CalculateVisID()
406     {
407         try{
408             St1 = Con.createStatement();
409             Rs1 = St1.executeQuery("Select MAX(VisId) from vis_tab");
410             Rs1.next();
411             VisId = Rs1.getInt(1)+1;
412
413
414             }catch(Exception Ex){
415             }
416         }
417         //function that is used to display in table
418         private void VisDisplay() {
419             try{
420                 //creating connection from vis_tab in my sql
421                 Con = DriverManager.getConnection(url,user,pass);
422                 St = Con.createStatement();
423                 Rs = St.executeQuery("Select * from vis_tab");
424                 VisitorTable.setModel(DbUtils.resultSetToTableModel(Rs));
425             }catch(Exception ex){
426             }
427         }
428     }

```

---

```

461     int n = -1;
462     private void VISDELETEMouseClicked(java.awt.event.MouseEvent evt) {
463         if(n == -1){
464             //you have to select if you don't want to be popped up by this question
465             JOptionPane.showMessageDialog(this, " Which one you want to delete? ");
466
467         }else{
468             try{
469                 //connecting with the sql
470                 Con=DriverManager.getConnection(url,user,pass);
471                 //you have to select first before being able to delete
472                 String Q = " Delete from vis_tab where VisId = "+n;
473                 Statement Delt = Con.createStatement();
474                 Delt.executeUpdate(Q);//executing the delete statement
475                 JOptionPane.showMessageDialog(this,"Visitor information is deleted! ");
476                 //displaying the information again ,p.s. already updated.
477                 VisDisplay();
478             }catch(Exception e){
479                 JOptionPane.showMessageDialog(this,e);
480             }
481         }
482     }

```

```

430 private void VISADDMouseClicked(java.awt.event.MouseEvent evt) {
431     if(VISAGE.getText().isEmpty()|| VISNAME.getText().isEmpty()||
432         VISCHOOSE.getSelectedIndex() == -1||VISGENDER.getSelectedIndex()== -1 ){
433         //if there's unfilled thing, it will show "information incomplete"
434         JOptionPane.showMessageDialog(this, "Information incomplete!");
435     }else{
436         try{
437             //calling the calculate VisID to update the VisId
438             CalculateVisID();
439             Con=DriverManager.getConnection(url,user,pass);
440             //connecting data with mysql; connecting with the vis_tab and inserting to 6 values
441             PreparedStatement Add = Con.prepareStatement("insert into vis_tab values (?,?, ?,?, ?,?, ?)");
442             //adding the values
443             Add.setInt(1,VisId);
444             Add.setString(2, VISNAME.getText());
445             Add.setInt(3, Integer.valueOf(VISAGE.getText()));
446             Add.setString(4, VISPASS.getText());
447             Add.setString(5, VISGENDER.getSelectedItem().toString());
448             Add.setInt(6, Integer.valueOf(VISCHOOSE.getSelectedItem().toString()));
449
450             int row = Add.executeUpdate();
451             //Pop up message to tell you when add is successfully done
452             JOptionPane.showMessageDialog(this, "Visitor account is created!");
453             Con.close();
454             //Updating the display
455             VisDisplay();
456         }catch(Exception e){
457             JOptionPane.showMessageDialog(this, e);
458         }
459     }
460 }

```

```

485 private void VisitorTableMouseClicked(java.awt.event.MouseEvent evt) {
486     //when the visitor table is clicked
487     DefaultTableModel model = (DefaultTableModel)VisitorTable.getModel();
488     //assigning index as the clicked part
489     int Index = VisitorTable.getSelectedRow();
490     //setting up; so when it is clicked, the infos are filled in the name area,age,etc.
491     n = Integer.valueOf(model.getValueAt(Index,0).toString());
492     VISNAME.setText(model.getValueAt(Index, 1).toString());
493     VISAGE.setText(model.getValueAt(Index, 2).toString());
494     VISPASS.setText(model.getValueAt(Index, 3).toString());
495     VISGENDER.setSelectedItem(model.getValueAt(Index, 4).toString());
496     VISCHOOSE.setSelectedItem(model.getValueAt(Index,5).toString());
497     //calling the display function to display
498     VisDisplay();
499 }

```

```

501 private void VISEDITMouseClicked(java.awt.event.MouseEvent evt) {
502     if(VISAGE.getText().isEmpty() || VISNAME.getText().isEmpty() ||
503         VISCHOOSE.getSelectedIndex() == -1 || VISEGENDER.getSelectedIndex() == -1) {
504         //by not selecting row at table, missing info will pop!
505         JOptionPane.showMessageDialog(this, "Missing information ");
506     }else{
507         try{
508             //First you have to select the one you want to edit by clicking onto the table
509             //Connecting to the vis_tab in my sql and setting the VisName,etc.
510             Con=DriverManager.getConnection(url,user,pass);
511             String Query = " Update vis_tab set VisName=?,VisAge=?, VisPass=?,VisGen=?,VisChoose=? where VisId=?";
512             PreparedStatement UpdateQuery = Con.prepareStatement(Query);
513             //Setting the new information
514             UpdateQuery.setString(1, VISNAME.getText());
515             UpdateQuery.setInt(2, Integer.valueOf(VISAGE.getText()));
516             UpdateQuery.setString(3, VISPASS.getText());
517             UpdateQuery.setString(4, VISEGENDER.getSelectedItem().toString());
518             UpdateQuery.setInt(5, Integer.valueOf(VISCHOOSE.getSelectedItem().toString()));
519             UpdateQuery.setInt(6,n);
520             UpdateQuery.executeUpdate();
521             //Pop up message shown when edit is done
522             JOptionPane.showMessageDialog(this,"Customer account is edited! ");
523             VisDisplay();
524         }catch(Exception e){
525             JOptionPane.showMessageDialog(this,e);
526         }
527     }
528 }
529
530 private void VISBACKMouseClicked(java.awt.event.MouseEvent evt) {
531     //the back button will redirect you to the mainpage.
532     new MainPage().setVisible(true);
533     this.dispose();
534 }
535
536
537 public static void main(String args[]) {
538     java.awt.EventQueue.invokeLater(new Runnable() {
539         public void run() {
540             new Fifthpage().setVisible(true);
541         }
542     });
543 }

```

## Sixthpage class

```

1 package main.java.VoteManagementSys;
2
3 //for connection to sql purposes
4 import java.sql.PreparedStatement;
5 import java.sql.Connection;
6 import java.sql.ResultSet;
7 import java.sql.Statement;
8 import java.sql.DriverManager;
9 //for picture
10 import javax.swing.ImageIcon;
11 import java.awt.Image;
12 //for message
13 import javax.swing.JOptionPane;
14 //for table manipulation
15 import net.proteanit.sql.DbUtils;
16 import javax.swing.table.DefaultTableModel;
17

```



```

263 //To make sure the photo is not too big, or equals to the decided size in the JFrame
264 private ImageIcon SizingPict( String ImagePath, byte [] pic){
265     ImageIcon EmpImage = null;
266     if(ImagePath != null){
267         EmpImage = new ImageIcon(ImagePath);
268     }else{
269         EmpImage = new ImageIcon(pic);
270     }
271     Image img = EmpImage.getImage();
272     //Scaling it with the size of the JFrame EMPPICT
273     Image newImg = img.getScaledInstance(EMPPHOTO.getWidth(), EMPPHOTO.getHeight(), Image.SCALE_SMOOTH);
274     ImageIcon image = new ImageIcon(newImg);
275     return image;
276 }
277
278 private void SDisplay(){
279     try{
280         //displaying function to the table
281         //connection from emp_tab in mysql
282         Con = DriverManager.getConnection(url,user,pass);
283         St = Con.createStatement();
284         Rs = St.executeQuery("Select * from emp_tab");
285         TableS.setModel(DbUtils.resultSetToTableModel(Rs));
286     }catch(Exception ex){
287
288     }
289 }
290
291 private void PhotoDisplay()
292 {
293     //function to display photo
294     //Getting the Photo from the employee tab
295     String Q = "Select EmpPhoto from emp_tab where EmpId="+n ;
296     Statement St;
297     ResultSet Rs;
298
299     try{
300         //connecting to the sql first and to the emp_tab
301         Con = DriverManager.getConnection(url,user,pass);
302         St = Con.createStatement();
303         Rs = St.executeQuery(Q);
304         if(Rs.next()){
305             EMPPHOTO.setIcon(SizingPict(null,Rs.getBytes("EmpPhoto")));
306         }
307     }catch(Exception e){
308
309     }
310 }
311
312
313 int check;
314 private void Once(){
315     //function that is used so that the same user can't vote twice
316     try{
317         St1 = Con.createStatement();
318         Rs1 = St.executeQuery("select * from result_tab where VisId="+
319                               SixthID+" and MID="+Id2+" ");
320         //if function that set up int check to 1 or 0; 1 is for ppl that has voted once.
321         if(Rs1.next()){check = 1;}else{check = 0;}
322     }catch(Exception EX){
323         JOptionPane.showMessageDialog(this,EX);
324     }
325 }

```

```

328 private void TableSMouseClicked(java.awt.event.MouseEvent evt) {
329     //when the table is clicked, it will :
330     DefaultTableModel model = (DefaultTableModel)TableS.getModel();
331     //get the value at the selected row and filling the information in the space available
332     int Index = TableS.getSelectedRow();
333     n = Integer.valueOf(model.getValueAt(Index,0).toString());
334     //changin name variable in JFrame to the name of the applicant ( name label)
335     EMPNAME.setText(model.getValueAt(Index,1).toString());
336     Id2 = Integer.valueOf(model.getValueAt(Index, 5).toString()); //what month user chose
337     PhotoDisplay();
338 }
339 int RId ;
340 Statement St1 = null;
341 ResultSet Rs1 = null;
342 //same function with CalculateMonthID
343 private void CalculateResultID()
344 {
345     try{
346         //connecitng to result tab and taking the max RId value
347         St1 = Con.createStatement();
348         Rs1 = St1.executeQuery("Select MAX(RId) from result_tab");
349         Rs1.next();
350         //Getting the max and add it with 1
351         RId = Rs1.getInt(1)+1;
352     }catch(Exception Ex){
353     }
354 }
355 }
356
357 private void SupportButtonMouseClicked(java.awt.event.MouseEvent evt) {
358     //calling the Once function to make sure 1 person = 1 vote.
359     Once();
360     if(n == -1){
361         //if the button isn't click.
362         JOptionPane.showMessageDialog(this,"Vote!!!");
363     }else if(check>0)
364     {
365         //if you have voted once check = 1; if it is >0 you haven't voted
366         JOptionPane.showMessageDialog(this, "You have voted before!");
367     }else{
368         try{
369             //Counting the RId function
370             CalculateResultID();
371             //connecting to the result_tab in mysql and inserting 4 values.
372             Con=DriverManager.getConnection(url,user,pass);
373
374             PreparedStatement Add = Con.prepareStatement("Insert into result_tab values (?,?,?,?)");
375             //setting up the values
376             Add.setInt(1,RId);
377             Add.setInt(2,SixthID); //VisId
378             Add.setInt(3,Id2); //Basically this becomes the MID
379             Add.setInt(4,n); //EmpId
380
381             int row = Add.executeUpdate();
382             JOptionPane.showMessageDialog(this, "Voted!");
383             //closing the connection
384             Con.close();
385             //SUPPORT text will be visible once you click the support button
386             textnoted.setVisible(true);
387             SDisplay(); //updating the display
388             //meanwhile the support button will be gone
389             SupportButton.setVisible(false);
390
391         }catch (Exception e){
392             JOptionPane.showMessageDialog(this, e);
393         }
394     }
395 }

```

```

397 //button support back
398 private void ButtonSBMouseClicked(java.awt.event.MouseEvent evt) {
399     //redirecting you to the secondpage
400     new Secondpage().setVisible(true);
401     this.dispose();
402 }
403
404
405 public static void main(String args[]) {
406     java.awt.EventQueue.invokeLater(new Runnable() {
407         public void run() {
408             new Sixthpage().setVisible(true);
409         }
410     });
411 }
412

```

## Seventhpage class

```

1 package main.java.VoteManagementSys;
2
3
4 //For connection purposes
5 import java.sql.PreparedStatement;
6 import java.sql.Connection;
7 import java.sql.ResultSet;
8 import java.sql.Statement;
9 import java.sql.DriverManager;
10 //For showing message
11 import javax.swing.JOptionPane;
12 //For displaying image
13 import javax.swing.ImageIcon;
14 import java.awt.Image;
15 //For manipulating table
16 import net.proteanit.sql.DbUtils;
17 import javax.swing.table.DefaultTableModel;
18 //For Percentage
19 import java.text.DecimalFormat;
20
21 public class Seventhpage extends javax.swing.JFrame {
22     //Copied from pages before
23     Connection Con = null;
24     PreparedStatement pst = null;
25     ResultSet Rs = null;
26     Statement St = null;
27
28     String url = "jdbc:mysql://localhost:3306/oopdb";
29     String user = "root";
30     String pass = "";
31
32     //declared variables
33     int Winner;
34     int Support;
35     int Rate;
36     int n;
37     int total;
38

```



```

39 public Seventhpage() {
40     initComponents();
41     MonthDisplay();
42     GetBestEmployee();
43
44 }
45
46
47 @SuppressWarnings("unchecked")
48
49
50 private void GetBestEmployee() {
51     try{
52
53         Con=DriverManager.getConnection(url,user,pass);
54         //String Q = " select EmpId, Count(EmpId) from result_tab where Mid="+n
55         //      +" Group BY EmpId ORDER BY EmpId DESC LIMIT 1 ";
56         //https://stackoverflow.com/questions/12235595/find-most-frequent-value-in-sql-column
57         //To get the most frequent value methods
58         String Q = "Select EmpId, COUNT(EmpId) as totalrep from result_tab GROUP BY EmpId ORDER BY totalrep DESC LIMIT 1";
59         St = Con.createStatement();
60         Rs = St.executeQuery(Q);
61         while(Rs.next()){
62             Winner = Rs.getInt(1);
63
64         }
65     }catch(Exception e){
66         JOptionPane.showMessageDialog(this,e);
67     }
68 }
69
70 private ImageIcon SizingPict( String ImagePath, byte [] pic){
71     ImageIcon EmpImage = null;
72     if(ImagePath != null){
73         EmpImage = new ImageIcon(ImagePath);
74     }else{
75         EmpImage = new ImageIcon(pic);
76     }
77     Image img = EmpImage.getImage();
78     //Scaling it with the size of the JFrame EMPPICT
79     Image newImg = img.getScaledInstance(EMPPHOTO.getWidth(), EMPPHOTO.getHeight(),Image.SCALE_SMOOTH);
80     ImageIcon image = new ImageIcon(newImg);
81     return image;
82 }
83 private void WinnerData()
84 {
85     //The Q is to select photo and name from the emp_tab and the Winner key helps to select the right emp
86     String Q = "Select EmpPhoto,EmpName from emp_tab where EmpId="+Winner ;
87     Statement St;
88     ResultSet Rs;
89
90     try{
91         //Connecting to the empdata in my sql
92         Con = DriverManager.getConnection(url,user,pass);
93         St = Con.createStatement();
94         Rs = St.executeQuery(Q);
95         if(Rs.next()){
96             //setting the picture
97             EMPPHOTO.setIcon(SizingPict(null,Rs.getBytes("EmpPhoto")));
98             //The name of employee will be shown overwriting the label "name" in JFrame
99             SEVENTHPAGENAME.setText(Rs.getString("EmpName"));
100         }
101     }catch(Exception e){
102
103     }

```

```

104 //function that shows the percentage of winning
105 private void Rate()
106 {
107     try{
108         //connecting to the result_tab in my sql
109         Con=DriverManager.getConnection(url,user,pass);
110
111         String Q = " select Count(*) from result_tab where MId = "+
112             n;
113         St = Con.createStatement();
114         Rs = St.executeQuery(Q);
115         while(Rs.next()){
116             //getting the total support
117             total = Rs.getInt(1);
118             double rate;
119             //method to calculate percentage
120             rate = (Support* 100)/total ;
121             //string format
122             RateTxt.setText(new DecimalFormat("##.##").format(rate)+"%");
123         }
124     }catch(Exception e){
125         JOptionPane.showMessageDialog(this,e);
126     }
127 }
128
129 private void Calculation()
130 {
131     try{
132         Con=DriverManager.getConnection(url,user,pass);
133         //Getting the support of the best employee; by counting the empId of the winner
134         String Q = " select Count(EmpId) from result_tab where EmpId = "+
135             Winner;
136         St = Con.createStatement();
137         Rs = St.executeQuery(Q);
138         while(Rs.next()){
139
140             Support = Rs.getInt(1);
141
142             Text2.setText(Support+ " Supports ");
143         }
144     }catch(Exception e){
145         JOptionPane.showMessageDialog(this,e);
146     }
147 }
148

```

```

329 private void MonthTable2MouseClicked(java.awt.event.MouseEvent evt) {
330     //if the month table is clicked
331     DefaultTableModel model = (DefaultTableModel)MonthTable2.getModel();
332     int Index = MonthTable2.getSelectedRow();
333     n = Integer.valueOf(model.getValueAt(Index,0).toString());
334     //calling function
335     GetBestEmployee();
336     WinnerData();
337     Calculation();
338     Rate();
339 }

342 private void BackResultMouseClicked(java.awt.event.MouseEvent evt) {
343     //By clicking the back button, it will redirect you to the MainPage
344     new Secondpage().setVisible(true);
345     this.dispose();
346 }

347 private void BackResultActionPerformed(java.awt.event.ActionEvent evt) {...3 lines }
350 //Function to display the month
351 private void MonthDisplay()
352 {
353     try{
354         Con=DriverManager.getConnection(url,user,pass);
355         St = Con.createStatement();
356         Rs = St.executeQuery("Select * from month_tab ");
357         MonthTable2.setModel(DbUtils.resultSetToTableModel(Rs));
358     }
359     catch(Exception e){
360         System.out.println("Error: " + e.getMessage());
361     }
362 }
363

```

## Mainpage class

```

1 package main.java.VoteManagementSys;
2
3 public class MainPage extends javax.swing.JFrame {
4     //you dont need connection to sql in this oage, therefore no need to import
5     //for connection purposes.
6
7     public MainPage() {
8         initComponents();
9     }
10

```

```

272 private void Pict1MouseClicked(java.awt.event.MouseEvent evt) {
273     //If you click pict1 or Month pict, it will redirect you to thirdpage
274     new Thirdpage().setVisible(true);
275     this.dispose();
276 }
277
278 private void Pict2MouseClicked(java.awt.event.MouseEvent evt) {
279     //If you click pict2, it'll redirect you to fourthpage
280     new FourthPage().setVisible(true);
281     this.dispose();
282 }
283
284 private void Pict3MouseClicked(java.awt.event.MouseEvent evt) {
285     //If you click pict3, it'll redirect you to fifthpage
286     new Fifthpage().setVisible(true);
287     this.dispose();
288 }
289
290 private void Pict4MouseClicked(java.awt.event.MouseEvent evt) {
291     //if you click pict4,it will redirect you to seventhpage
292     new Seventhpage().setVisible(true);
293     this.dispose();
294 }
295
296 private void LogoutBtnMouseClicked(java.awt.event.MouseEvent evt) {
297     //if you click the logout button, it'll redirect you to the login page
298     new Secondpage().setVisible(true);
299     this.dispose();
300 }

```

```

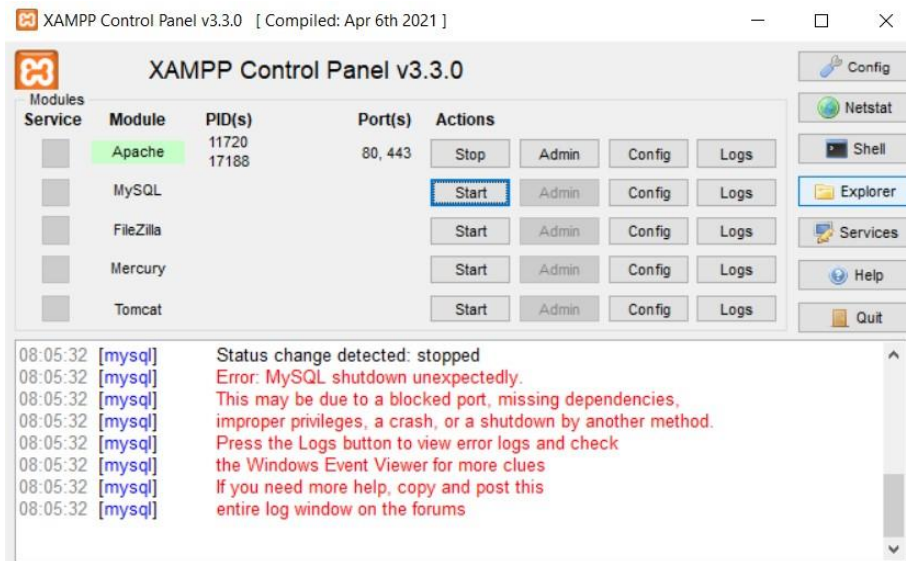
02 public static void main(String args[]) {
03
04     java.awt.EventQueue.invokeLater(new Runnable() {
05         public void run() {
06             new MainPage().setVisible(true);
07         }
08     });
09 }

```

## REFERENCES:

- <https://www.flaticon.com/free-icons/elections>
- <https://www.ssec.wisc.edu/mcidas/software/v/javadoc/1.4/edu/wisc/ss/ec/mcidasv/data/dateChooser/JCalendar.html>
- <https://stackoverflow.com/questions/50398537/mysql-not-pushing-insert-into-database-with-netbeans>
- <https://toedter.com/jcalendar/>
- <https://www.youtube.com/watch?v=4c3WYK5Fpql>
- <https://www.youtube.com/watch?v=0DPB70hZykg>
- <https://colorhunt.co/palette/68a7ad99c4c8e5cb9feee4ab>
- <http://www.java2s.com/Code/Jar/c/Downloadcommonsdbutils13source.sjar.htm>
- <https://www.rapidtables.com/convert/color/hex-to-rgb.html>
- <https://www.youtube.com/watch?v=rEzrhDTR5HI>

# PROBLEMS



This problem occurs a lot of time when I tried to start mySql. So what I did is:  
I named data to data\_lama and then I created an empty folder with the name of data.

After that, I copied all the files in backup to data, and then I go to data lama and copied my tables. After that, I restart and run it again.

backup	02/06/2022 19:42	File folder
bin	02/06/2022 19:45	File folder
data	06/06/2022 8:09	File folder
data_lama	03/06/2022 15:22	File folder
data_lamaa6juni	06/06/2022 8:05	File folder