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VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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COURSE PROJECT

B.TECH. 2nd YEAR 2nd SEMESTER – IT – A

Course Name: Java Programming

Course Code: 19PC1IT02

Roll No.	*Name*	
20071A1211	DEVARASHETTY SHIVA SAI	Educational Institution management system.
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We developed an **Educational Institutional Management** in a simple windowed console application, the system can be run by entering the correct information of the student or faculty. The user can do two things here, he/she can manage both student and faculty section. Here if we need complete information about a student or about a faculty it displays the complete information just by entering his/her basicinformation. Here we developed a new feature for adding a newstudent or new faculty entry. We developed Educational Institutional Management using simple java code for easy understanding.

The information of the student and faculty should be stored securely thus it is very confidential.

Educational Institutional Management using java with Source Code Features:

Student Section

- Search Student.
- Display Student Information.
- Addition of new entry student.

Search Student:

For search of a student complete information if he/she enters the roll number of the student then through the help of code it displays the complete information of the student.

Display Student Information:

Here if we enter a student roll number it displays the complete information of the student such as name, roll no, branch, year, CGPA, mobile no, etc.,

Addition of new entry student.

Here if a new student is joined into the campus his/her information should be collected and stored securely. So, this feature helps us to add the information of new student.

Teacher Section

- Search Teacher.
- Display Teacher Information.
- Addition of new faculty entry.

Search Teacher:

For search of a faculty complete information if he/she enters the ID of the faculty then through the help of code it displays the complete information of the faculty.

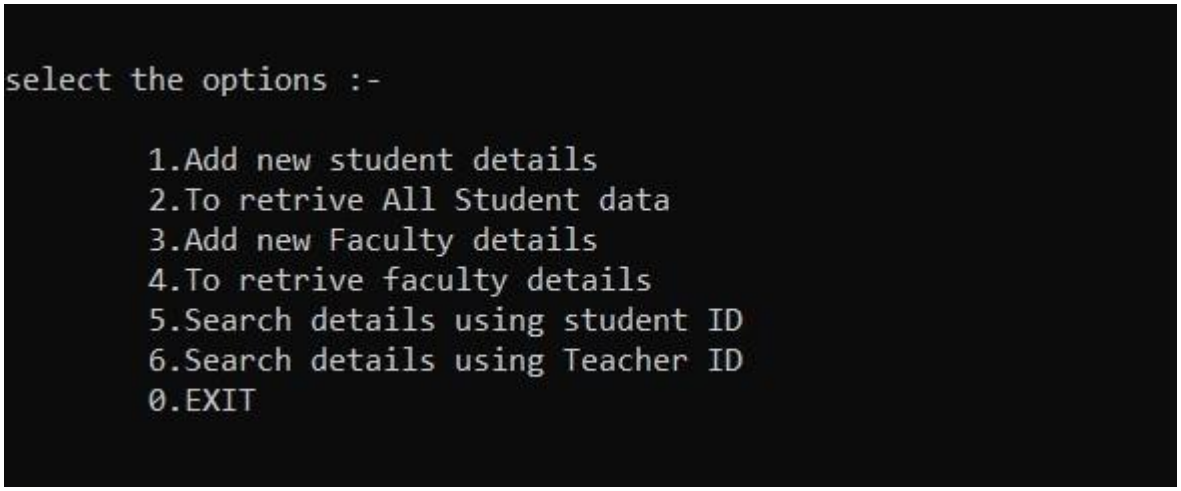
Display Teacher Information:

Here if we enter the ID of faculty it displays the complete information of the faculty such as faculty id, name, ID, salary, mobile no, Email, etc.,

Addition of new faculty entry:

Here if a new faculty is joined into the campus his/her information should be collected and stored securely. So, this feature helps us to add the information of new faculty.

Details displayed after running the code:



Here,

Option1 is to add the information of new student

Option2 is to add the information of new faculty.

Option3 is to display the details and complete information of student.

Option4 is to display the details and complete information of faculty.

Option5 is to search a student information through their roll number.

Option6 is to search a faculty information through their ID.

Option 7 is to exit out of the program.

OPTION:1

```
Your choice: 1
Enter student ID: 12
Name: Divya
Department: CSE
Year pursuing now: 1
Gender: F
if u want to exit press 0, else enter 1
0

Your choice: 0
```

To add a new student, we can choose option1. Then, the above details are displayed.

The details are:

- Name
- Rollno
- Department name
- Department Id
- Joining year
- Mobile number

In this way we can enroll the details of the student.

Option:2

```
select the options :-

        1.Add new student details
        2.To retrive All Student data
        3.Add new Faculty details
        4.To retrive faculty details
        5.Search details using student ID
        6.Search details using Teacher ID
        0.EXIT


Your choice: 2
1  shiva  IT 2 M VNR
2  harry  ECE 2 M VNR
5  rohitha  IT 2 F VNR
6  sumith  CSBS 2 F VNR
11  anath  iot 2 M VNR
15  Avighna  IT 2 F VNR
39  Mukesh  EIE 4 M VNR
43  devashish  ME 3 M VNR
54  Sai  kiran 2 M VNR
60  Pranitha  CSE 3 F VNR
```

To add a new Faculty member, we can choose option2. Then, the above details are displayed.

The details are:

- Name
- Faculty ID
- Department name
- Department Id
- Salary
- Subject
- Mobile number
- Email ID

In this way we can enroll the details of the Faculty member.

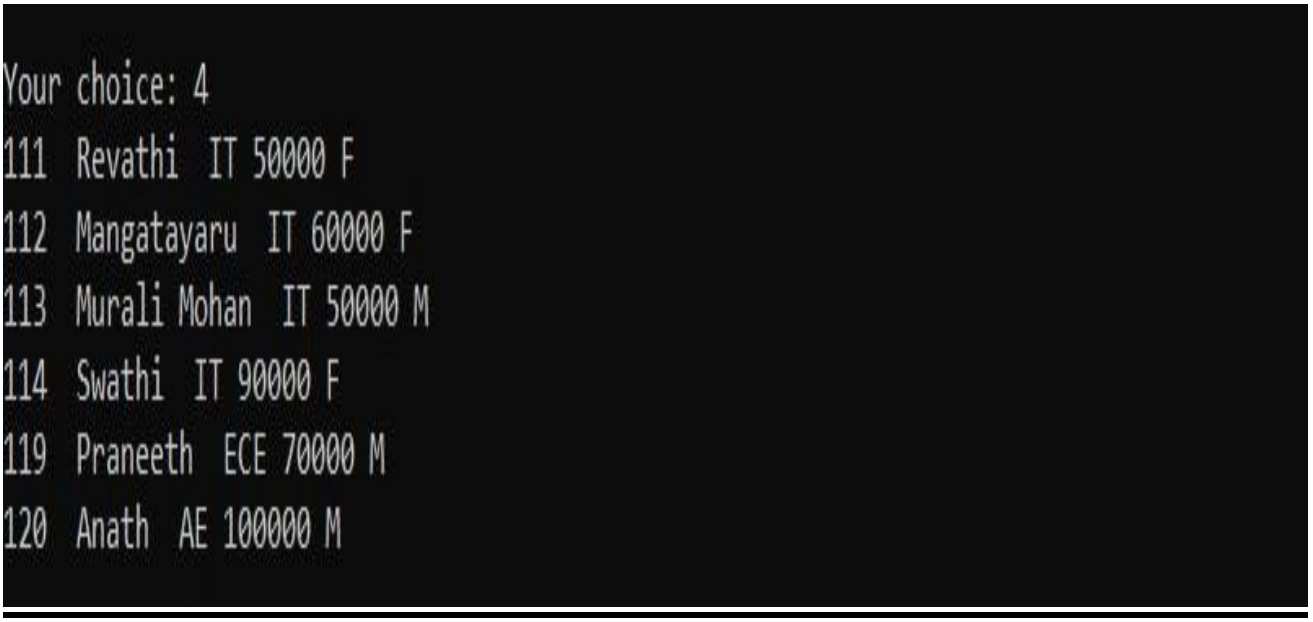
Option:3

```
Your choice: 3
Enter Faculty ID: 119
Name: Praneeth
Department: ECE
Salary/month: 70000
Gender: M
if u want to exit press 0, else enter 1: 0
```

By choosing option 3, the student details will be displayed. The following details will be displayed :

- Name
- Rollno
- Department Name
- Department ID
- Joining Year
- CGPA
- Mobile Number

Option:4

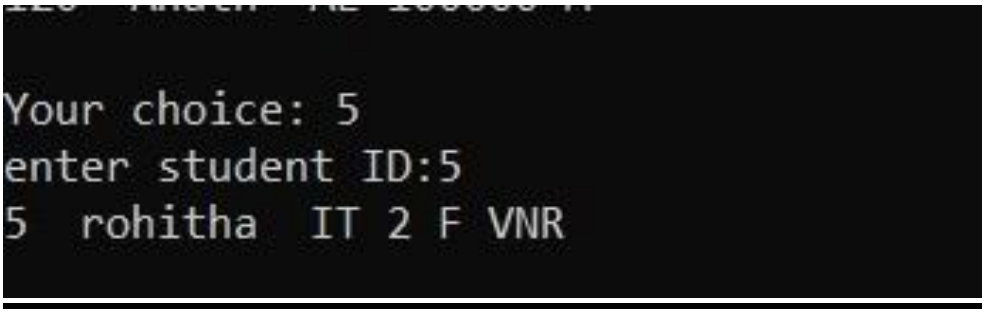


By choosing option 4, the Faculty details will be displayed.

The following details will be displayed :

- Name
- Faculty ID
- Department Name
- Department ID
- Subject
- Salary
- Mobile Number
- Email ID

Option:5



To search any student details, We need choose option 5. After choosing we need to enter ID of the student to be searched.

Then the following details will be displayed:

- Name
- Rollno
- Department Name
- Department ID
- Joining Year
- CGPA
- Mobile Number

Option:6

```
Your choice: 6
enter teacher ID:111
111  Revathi  IT 50000 F

Your choice: 0
```

To search any Faculty member details, We need choose option 6. After choosing we need to enter ID of the Faculty member to be searched.

Then the following details will be displayed:

- Name
- Faculty ID
- Department Name
- Department ID
- Subject
- Salary
- Mobile Number
- Email ID

To Exit choose option 0.

Source code:

```
import java.sql.*;
import java.util.*;

class MysqlCbp{
    public static void main(String args[]) throws SQLException{



        String UR="jdbc:mysql://localhost:3306/harry";

        Connection
conn=DriverManager.getConnection(UR,"root","Shiva@1211");

        Statement stmt=conn.createStatement();



        Scanner t=new Scanner(System.in);
        int value=1;

        System.out.println("                    <<<  WELCOME TO VNR
DATABASE  >>>>\n");
        System.out.println("");
        System.out.println("select the options :-");
        System.out.println("");
        System.out.println("      1.Add new student details");
        System.out.println("      2.To retrive All Student data");
        System.out.println("      3.Add new Faculty details");
        System.out.println("      4.To retrive faculty details");
        System.out.println("      5.Search details using student ID");
        System.out.println("      6.Search details using Teacher ID");
        System.out.println("      0.EXIT");
        System.out.println("");
        while(value!=0)
        {
            System.out.println("");
            System.out.print("Your choice: ");
            value=t.nextInt();
```

```
switch(value)
{

    case 1:
        PreparedStatement ins=conn.prepareStatement("insert into student values(?,?,?,?,?,'VNR')");
        int n=1;
        while(n==1)
        {
            int id,y;
            String name,dept,g;
            Scanner s=new Scanner(System.in);
            System.out.print("Enter student ID: ");
            id=s.nextInt();
            System.out.print("Name: ");
            name=s.next();
            System.out.print("Department: ");
            dept=s.next();
            System.out.print("Year pursuing now: ");
            y=s.nextInt();
            System.out.print("Gender: ");
            g=s.next();

            ins.setInt(1,id);
            ins.setString(2,name);
            ins.setString(3,dept);
            ins.setInt(4,y);
            ins.setString(5,g);

            ins.executeUpdate();
            System.out.println("if u want to exit press 0, else enter 1");
            n=s.nextInt();
        }
    break;


    case 2:
        String s="SELECT * FROM student";
```

```
                    ResultSet rs=stmt.executeQuery(s);

                    while(rs.next())
                    {
                        int ids=rs.getInt("id");
                        String names=rs.getString("name");
                        String deps=rs.getString("department");
                        int ys=rs.getInt("year");
                        String gs=rs.getString("gender");
                        String clg=rs.getString("college");

                        System.out.println(ids+"  "+names+"  "+deps+"
"+ys+" "+gs+" "+clg);
                    }

                    rs.close();

                break;

                case 3:
                    PreparedStatement ins1=conn.prepareStatement("insert into
teacher values(?,?,?,?,?)");
                    int n1=1;
                    while(n1==1)
                    {
                        int id,salary;
                        String name,dept,g;
                        Scanner sc=new Scanner(System.in);
                        System.out.print("Enter Faculty ID: ");
                        id=sc.nextInt();
                        System.out.print("Name: ");
                        name=sc.next();
                        System.out.print("Department: ");
                        dept=sc.next();
                        System.out.print("Salary/month: ");
                        salary=sc.nextInt();
                        System.out.print("Gender: ");
                        g=sc.next();
```

```
                    ins1.setInt(1,id);
                    ins1.setString(2,name);
                    ins1.setString(3,dept);
                    ins1.setInt(4,salary);
                    ins1.setString(5,g);

                    ins1.executeUpdate();

                    System.out.print("if u want to exit press 0, else enter
1: ");
                    n1=sc.nextInt();
                }
            break;

            case 4:
                String q2="SELECT id,name,dept,salary,gender FROM
teacher";


                ResultSet rs1=stmt.executeQuery(q2);

                while(rs1.next())
                {
                    int idp=rs1.getInt("id");
                    String namep=rs1.getString("name");
                    String depp=rs1.getString("dept");
                    int salp=rs1.getInt("salary");
                    String gp=rs1.getString("gender");

                    System.out.println(idp+"  "+namep+"  "+depp+"
"+salp+" "+gp);
                }

                rs1.close();
            break;

            case 5:

                System.out.print("enter student ID:");
```

```
                        Scanner k5=new Scanner(System.in);
                        int tid5=11;
                        tid5=k5.nextInt();
                        PreparedStatement en5=conn.prepareStatement("SELECT *
FROM student where id=?");
                        en5.setInt(1,tid5);
                try
                {
                        ResultSet rs5=en5.executeQuery();
                        rs5.next();
                                int ids=rs5.getInt("id");
                                String names=rs5.getString("name");
                                String deps=rs5.getString("department");
                                int ys=rs5.getInt("year");
                                String gs=rs5.getString("gender");
                                String clg=rs5.getString("college");

                                System.out.println(ids+"  "+names+"  "+deps+"
"+ys+" "+gs+" "+clg);

                        rs5.close();
                }
                catch(SQLException sqe)
                {
                        System.out.println("No details on that ID, once please check
");
                }

                break;

                case 6:
                        System.out.print("enter teacher ID:");
                        Scanner k1=new Scanner(System.in);
                        int tid=120;
                        tid=k1.nextInt();
                        PreparedStatement en1=conn.prepareStatement("SELECT *
FROM teacher where id=?");
                        en1.setInt(1,tid);
                try{
                        ResultSet rs6=en1.executeQuery();
```

```
                        rs6.next();
                                int idp=rs6.getInt("id");
                                String namep=rs6.getString("name");
                                String depp=rs6.getString("dept");
                                int salp=rs6.getInt("salary");
                                String gp=rs6.getString("gender");

                                System.out.println(idp+"  "+namep+"  "+depp+"
"+salp+" "+gp);

                                rs6.close();
                        }
                        catch(SQLException sqe)
                        {
                                System.out.println("No details on that ID, once please check
");
                        }
                }
                }
                stmt.close();
        }
}
```

Conclusion:

From this Course Project ‘Educational Institute Management System’,

We can store and display the details and information of students andfaculty easily and securely. This project can enhance the knowledgeof the beginners or the students to develop skills in programming. Ithelps the institute to achieve the target, reduce work, increase efficiency, eliminating error, and monitoring progress. It becomes easy for the administration to store all the training resources, to collect helpful data of the organization like content and resources, to create progress report of each student, to maintain data of daily activities etc. This helps the administrative staff to save their labour and time and also make time available to focus on another priority task. Good management offers better productivity and hence more progress towards development.