



İZMİR UNIVERSITY OF ECONOMICS FACULTY OF ENGINEERING & COMPUTER SCIENCE

FINAL REPORT(2017)

SE 116 – INTRODUCTION TO PROGRAMMING II

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1. OBJECTIVE OF THE SYSTEM

DAMMNSIS Student Information System (IS)

As our project, we decided to develop a simulation of a Student Information System. The system is based on the following:

1. Storing students, lecturer, lecture, grade information and printing whenever the user wants:

- Students', lecturers' names, ID numbers, grades for each lecture etc.

2. Lecturers' accessing the information of students and editing them:

- Printing students' information
- Grading and storing grades

3. Management of the system

- A manager section to provide the opportunity of adding new students, lecturers, lectures.

4. Login section for students, manager and lecturers:

- The students, the lecturers and the manager have their own login IDs' and passwords'.
- Students are able to print their personal information and grades.
- Lecturers are able to print their personal information and grade their students.
- Manager is able to add new students, lecturers and lectures.

Usage of the system

At the beginning there will be a menu which lists the possible options for users to choose. The user will be able to sign in as a student, lecturer or manager. Firstly, the system will ask for user type (student, manager, or lecturer). After selecting the user type, the system will request an ID and a password from the user. In case the user enters wrong password or ID, the system will automatically return to the login menu. //Also in the system, there is print option for each student and lecturer.

In the system there are some student, lecturer and lecture instances which are already stored, however the manager is always able to add new instances of those, as well.

In the student section, students are able to print their personal information and grades.

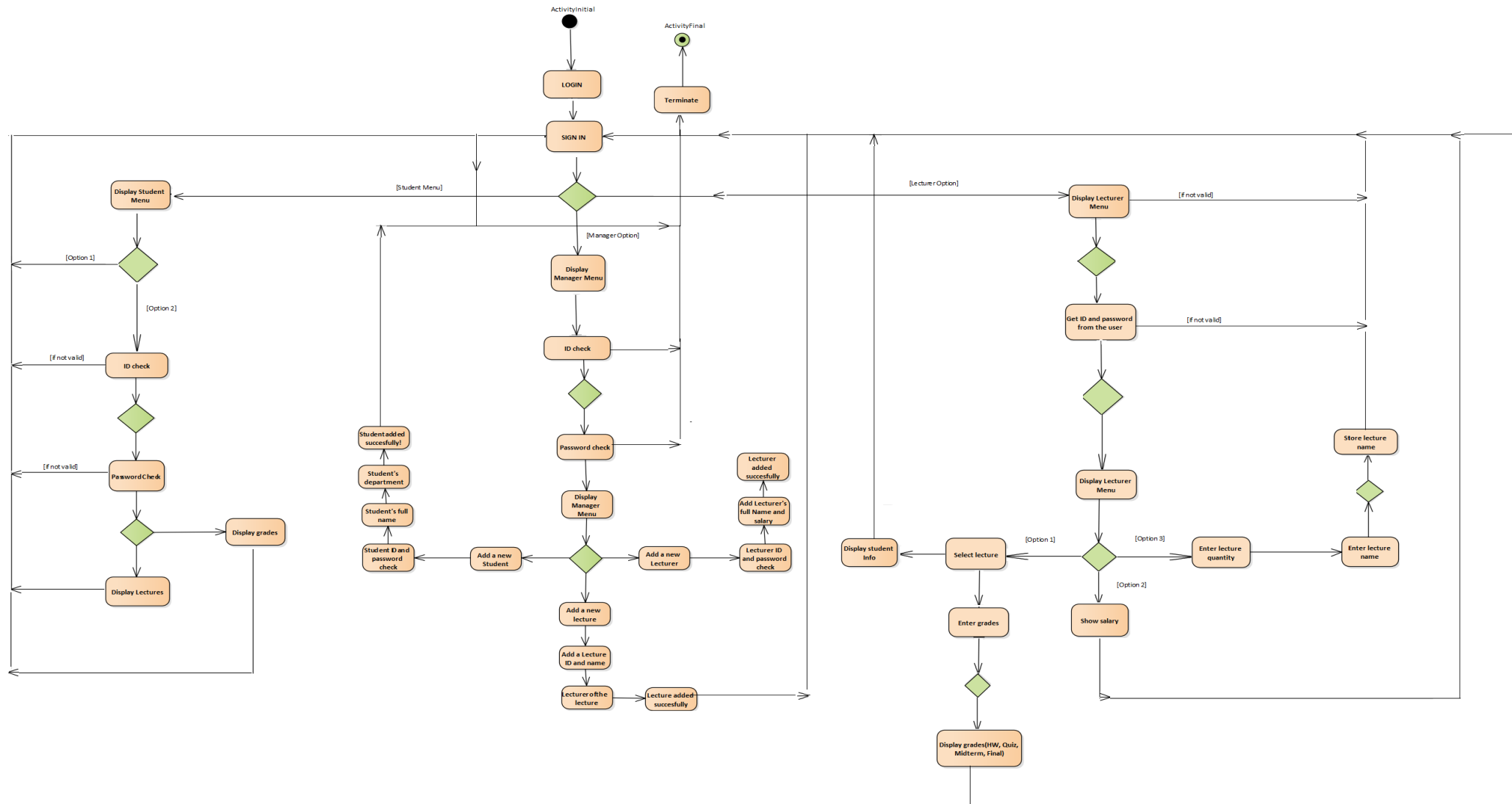
In the manager section, three options for the manager are listed:

Adding a student, adding a lecture and adding a lecturer. Only the manager can add those instances to be stored in the system. After storing the data, the manager can return to the login menu.

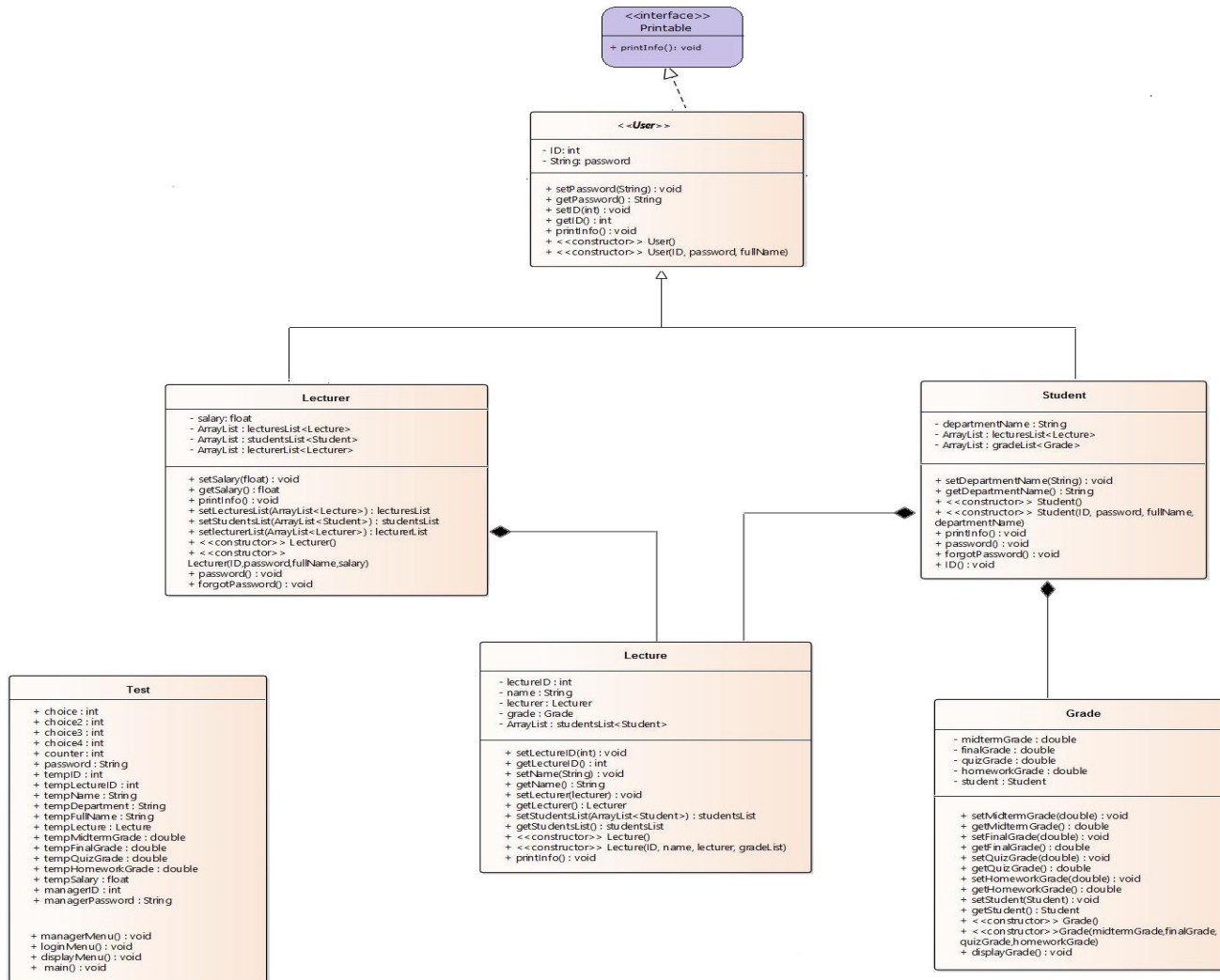
In the lecturer section, after entering ID and password, the personal information of the lecturer will be printed. After that, by entering the ID number of the lecture and student, lecturers will be able to grade their students.

Grades include midterm grade, homework, final grade and quiz grade. Lecturer can enter these grades for their lectures. Students can display the entered grades by lecturers in students menu.

2. UML ACTIVITY DIAGRAM



3. UML CLASS DIAGRAM



4. RUN-TIME POLYMORPHISM

```
*Printable.java *User.java *Student.java *Lecturer.java *Lecture.java *Grade.java *Test.java x
116         }
117
118     }
119
120     break;
121
122     case 2: //LECTURER//
123
124         System.out.println("Lecturer ID: ");
125         tempID = input.nextInt();
126         input.nextLine();
127         System.out.println("Lecturer Password: ");
128         tempPassword = input.nextLine();
129
130         for (int i=0; i<userList.size(); i++) {
131             if (tempID == userList.get(i).getID() && tempPassword.equals(userList.get(i).getPassword())) {
132                 System.out.println("Welcome " + userList.get(i).getFullName());
133                 userList.get(i).printInfo(); //RUN-TIME POLYMORPHISM//
            }
        }
    }
}
```

Test Class – Line 133

- “User” class is the base class of classes “Student” and “Lecturer”. (inheritance hierarchy - “is-a relationship”)
- printInfo() method is overridden. (overriding)
- Userlist which has the reference variable of parent class “User” refers to the object of child class “Lecturer”.

5. SOURCE CODES

#1 Interface - PRINTABLE

```
public interface Printable {  
    void printInfo();  
}
```


#2 Abstract Class –USER

```
public abstract class User implements Printable {

    protected int ID;
    protected String password;

    public String getPassword() {
        return password;
    }

    public void setPassword(String password) {
        this.password = password;
    }

    protected String fullName;

    public int getID() {
        return ID;
    }

    public void setID(int ID) {
        if (ID <= 0)
            ID = 0;
        else
            this.ID = ID;
    }

    public String getFullName() {
        return fullName;
    }

    public void setFullName(String fullName) {
        this.fullName = fullName;
    }

    public User() {
```

```
        setID(0);  
        setFullName("No name.");  
    }  
  
    public User(int ID, String password, String fullName) {  
        setID(ID);  
        setPassword(password);  
        setFullName(fullName);  
    }  
  
}
```

#3 Concrete Class – STUDENT

```
import java.util.ArrayList;
import java.util.Scanner;

public class Student extends User {
    Scanner input = new Scanner(System.in);

    protected String departmentName;
    protected ArrayList<Lecture> lecturesList= new ArrayList<Lecture>();
    protected ArrayList<Grade> gradeList = new ArrayList<Grade>();

    public void setDepartmentName(String departmentName) {

        this.departmentName = departmentName;
    }

    public String getDepartmentName() {
        return departmentName;
    }

    public ArrayList<Lecture> getLecturesList() {
        return lecturesList;
    }

    public void setLecturesList(ArrayList<Lecture> lecturesList) {
        this.lecturesList = lecturesList;
    }

    public Student(int ID, String password,String fullName, String departmentName) {
        this.ID = ID;
        this.password = password;
        this.fullName = fullName;
        this.departmentName = departmentName;
    }
}
```

```

public Student() {
    super();
    setDepartmentName("No department.");
}

public Student(int ID, String password, String fullName, String departmentName, ArrayList<Lecture> lecturesList,
ArrayList<Grade> gradeList) {
    super(ID, password, fullName);
    setDepartmentName(departmentName);
    lecturesList = new ArrayList<Lecture>();
    gradeList = new ArrayList<Grade>();

}

@Override

public void printInfo() {
    System.out.println("Student ID number: "+getID());
    System.out.println("Full name: "+getFullName());
    System.out.println("Department: "+getDepartmentName());

    for (int j = 0; j < gradeList.size(); j++) {
        gradeList.get(j).displayGrade();
    }

}

}

```

#4 Concrete Class - LECTURER

```
import java.util.ArrayList;
import java.util.Scanner;

public class Lecturer extends User {

    Scanner input = new Scanner(System.in);
    protected ArrayList<Lecture> lecturesList= new ArrayList<Lecture>();
    protected ArrayList<Student> studentsList = new ArrayList<Student>();
    protected ArrayList<Lecturer> lecturerList = new ArrayList<Lecturer>();
    protected float salary;

    public float getSalary() {
        return salary;
    }

    public void setSalary(float salary) {
        if(salary <0)
            salary =0;
        else
            this.salary = salary;
    }

    public ArrayList<Lecture> getLecturesList() {

        return lecturesList;
    }

    public void setLecturesList(ArrayList<Lecture> lecturesList) {

        this.lecturesList = lecturesList;
    }
}
```

```
public ArrayList<Student> getStudentsList() {  
    return studentsList;  
}  
  
public void setStudentsList(ArrayList<Student> studentsList) {  
    this.studentsList = studentsList;  
}  
  
public Lecturer() {  
  
    super();  
}  
  
public Lecturer(int ID, String password, String fullName, float salary) {  
  
    super(ID, password, fullName);  
    this.salary = salary;  
}  
  
    @Override  
    public void printInfo() {  
        System.out.println("Lecturer ID: "+getID());  
        System.out.println("Name: "+getFullName());  
        System.out.println("Salary: "+getSalary());  
        System.out.println();  
    }  
}
```

#5 Concrete Class – LECTURE

```
import java.util.Scanner;
import java.util.ArrayList;
public class Lecture {

    Scanner input = new Scanner (System.in);

    protected int lectureID;
    protected String name;
    protected Lecturer lecturer;
    protected User user; //BU DA YENİ //
    protected ArrayList<Student> studentsList;
    protected Grade grade;

    public User getUser() {
        return user;
    }

    public void setUser(User user) {
        this.user = user;
    }

    public int getLectureID() {
        return lectureID;
    }

    public void setLectureID(int lectureID) {
        if (lectureID <= 0) //DEĞİŞTİ //
            lectureID = 0; //DEĞİŞTİ//
        else
            this.lectureID = lectureID;
    }

    public String getName() {
        return name;
    }
}
```

```
    }

    public void setName(String name) {
        this.name = name;
    }

    public Lecturer getLecturer() {
        return lecturer;
    }

    public void setLecturer(Lecturer lecturer) {
        this.lecturer = lecturer;
    }

    public Lecture(int ID, String name, Lecturer lecturer, ArrayList<Grade> gradeList ) {
        setLectureID(ID);
        setName(name);
        setLecturer(lecturer);
    }

    public Lecture(int ID, User user) { //BU CONSTRUCTOR GEREKLİYDİ //
        setLectureID(ID);
        setUser(user); //BUNU YENİ KOYDUM //
        ArrayList<Grade> gradeList = new ArrayList<Grade>();
    }

    public Lecture(int ID, String name, Lecturer lecturer) {
        setLectureID(ID);
        setName(name);
        this.lecturer = lecturer;
    }

    public Lecture(int ID, String name) {
```



```
}
```

```
public void printInfo(){  
    System.out.println("Lecture ID: "+getLectureID());  
    System.out.println("Lecture name: "+getName());  
    System.out.println("Lecturer of this lecture: "+getLecturer().getFullName());
```

```
}
```

```
}
```

#6 Concrete Class – GRADE

```
import java.util.ArrayList;

public class Grade {
    protected double midtermGrade;
    protected double finalGrade;
    protected double quizGrade;
    protected double homeworkGrade;
    protected Student student;
    protected Lecture lecture;

    public double getMidtermGrade() {
        return midtermGrade;
    }

    public void setMidtermGrade(double midtermGrade) {
        this.midtermGrade = midtermGrade;
    }

    public double getFinalGrade() {
        return finalGrade;
    }

    public void setFinalGrade(double finalGrade) {
        this.finalGrade = finalGrade;
    }

    public double getQuizGrade() {
        return quizGrade;
    }

    public void setQuizGrade(double quizGrade) {
        this.quizGrade = quizGrade;
    }

    public double getHomeworkGrade() {
```

```
return homeworkGrade;
    }

    public void setHomeworkGrade(double homeworkGrade) {
        this.homeworkGrade = homeworkGrade;
    }

    public Grade() {

    }

    public void calculateAverage(){
        double avg =
            ((getMidtermGrade()*30/100)+(getFinalGrade()*40/100)+(getQuizGrade()*10/100)+(getHomeworkGrade()*20/100));
        System.out.println("Average grade: "+avg);
    }

    public Grade(double midtermGrade, double finalGrade, double quizGrade, double homeworkGrade, Lecture lecture){
        this.midtermGrade = midtermGrade;
        this.finalGrade = finalGrade;
        this.quizGrade = quizGrade;
        this.homeworkGrade = homeworkGrade;
        this.lecture = lecture;
    }

    public void displayGrade() {
        System.out.println();
        System.out.println("Grades for " + lecture.getName());
        System.out.println("Homework Grade: " +getHomeworkGrade());
        System.out.println("Quiz Grade: " +getQuizGrade());
        System.out.println("Midterm Grade: " +getMidtermGrade());
        System.out.println("Final Grade: " +getFinalGrade());
        calculateAverage();
        System.out.println();
    }

}
```

#7 Concrete Class – TEST

```
import java.util.ArrayList;
import java.util.Scanner;

public class Test {

    public static void managerMenu() {
        System.out.println("****MANAGER MENU****");
        System.out.println("Which one do you want to add to the system?");
        System.out.println("ENTER 1 TO ADD A NEW STUDENT");
        System.out.println("ENTER 2 TO ADD A NEW LECTURER");
        System.out.println("ENTER 3 TO ADD A NEW LECTURE");
        System.out.println("ENTER 0 TO GO BACK");
        System.out.print("Choice? :");

    }

    public static void loginMenu() {
        System.out.println("***Welcome to our Student Information System!***");
        System.out.println("ENTER ANY NUMBER TO LOGIN");
        System.out.println("ENTER 0 TO TERMINATE THE SYSTEM");
        System.out.print("Choice? :");

    }

    public static void displayMenu() {
        System.out.println("***SIGN IN*** ");
        System.out.println("ENTER 1 TO SIGN IN AS STUDENT ");
        System.out.println("ENTER 2 TO SIGN IN AS LECTURER ");
        System.out.println("ENTER 3 TO SIGN IN AS MANAGER ");
        System.out.println("ENTER 0 TO GO BACK TO THE MAIN MENU");
        System.out.print("Choice? :");

    }

}
```

```

public static void main(String[] args) {
    Scanner input = new Scanner(System.in);

    int choice;
    int choice2;
    int choice3;
    int counter;
    int tempID;
    int tempLectureID;
        String tempName;
        String tempPassword;
        String tempDepartment;
        String tempFullName;
    double tempMidtermGrade;
    double tempFinalGrade;
    double tempQuizGrade;
    double tempHomeworkGrade;
    float tempSalary;
        Lecturer lecturerRef = new Lecturer();

    int managerID = 123;
        String managerPassword = "admin";
        ArrayList<Student> studentsList = new ArrayList<Student>();
        ArrayList<User> userList = new ArrayList<>();
        ArrayList<Lecture> lecturesList = new ArrayList<Lecture>();
        ArrayList<Grade> gradeList = new ArrayList<Grade>();

        Student s1 = new Student(123, "naz", "Naz Tekinalp", "Computer Engineering");
        Student s2 = new Student(345, "meert", "Mert Kesimli", "Computer Engineering ");
        Student s3 = new Student(678, "mehmet", "Mehmet Emin Cesitli", "Computer Engineering");
        Student s4 = new Student (567, "dilara", "Dilara Gebes", "Software Engineering");
        Lecturer lr1 = new Lecturer(123, "ilker", "Ilker Korkmaz" , 5000);
        Lecturer lr2 = new Lecturer(3459, "nazan", "Nazan Gurkan", 3000);
        Lecturer lr3 = new Lecturer (4789, "sevin" , "Sevin Gumgum", 6000);
        Lecturer lr4 = new Lecturer(1123, "nimer" , "Nimet Kardes Sever", 2000);
        Lecture l1 = new Lecture (456, "SE116", lr1);
        Lecture l2 = new Lecture(111, "GER102", lr2);
        Lecture l3 = new Lecture(222, "MATH154", lr3);
        Lecture l4 = new Lecture (999, "PHYS101", lr4);

```

```
studentsList.add(s1);
studentsList.add(s2);
studentsList.add(s3);
studentsList.add(s4);
userList.add(lr1);
userList.add(lr2);
userList.add(lr3);
userList.add(lr4);
lecturesList.add(l1);
lecturesList.add(l2);
lecturesList.add(l3);
lecturesList.add(l4);
```

```
while (true) {    //LOGIN//
loginMenu();
    choice = input.nextInt();
if(choice == 0) {
    System.exit(0);
}
    displayMenu();
    choice2 = input.nextInt();
    input.nextLine();
while (choice2 != 0){
switch (choice2) { //2//
case 1: //STUDENT//
System.out.println("Student ID: ");
        tempID = input.nextInt();
        input.nextLine();
        System.out.println("Student Password: ");
        tempPassword = input.nextLine();

for (int i=0; i<studentsList.size(); i++) {
if (tempID == studentsList.get(i).getID() && tempPassword.equals(studentsList.get(i).getPassword())) {
        System.out.println("Welcome " + studentsList.get(i).getFullName());
        studentsList.get(i).printInfo();
}
}
```

```

    }

    break;

    case 2: //LECTURER//

        System.out.println("Lecturer ID: ");
        tempID = input.nextInt();
        input.nextLine();
        System.out.println("Lecturer Password: ");
        tempPassword = input.nextLine();

        for (int i=0; i<userList.size(); i++) {
            if (tempID == userList.get(i).getID() && tempPassword.equals(userList.get(i).getPassword())) {
                System.out.println("Welcome " + userList.get(i).getFullName());
                userList.get(i).printInfo(); //RUN-TIME POLYMORPHISM//

                System.out.println("***GRADE MENU***");
                System.out.println("Plese enter the ID of your lecture: ");
                tempLectureID = input.nextInt();
                input.nextLine();

                for ( i=0; i< lecturesList.size(); i++) {
                    Lecture lec1 = new Lecture(tempLectureID, userList.get(i));
                    if (tempLectureID == lecturesList.get(i).getLectureID()) {
                        lecturesList.get(i).printInfo();
                        System.out.println("Please enter the ID of your student: ");
                        tempID = input.nextInt();

                        for (Student st : studentsList) {
                            if (tempID == st.getID()) {
                                System.out.println("Student : " + st.getFullName());
                                System.out.println("Please enter the number of grades: ");
                                counter = input.nextInt();
                                input.nextLine();

                                for (int j = 1; j <= counter; j++) {
                                    System.out.println("HOMEWORK GRADE " + j + ":");
                                    tempHomeworkGrade = input.nextDouble();
                                    input.nextLine();
                                }
                            }
                        }
                    }
                }
            }
        }
    }
}

```

```

        System.out.println("QUIZ GRADE " + j + ":");
        tempQuizGrade = input.nextDouble();
        input.nextLine();
        System.out.println("MIDTERM GRADE " + j + ":");
        tempMidtermGrade = input.nextDouble();
        input.nextLine();
        System.out.println("FINAL GRADE " + j + ":");
        tempFinalGrade = input.nextDouble();
        input.nextLine();

        Grade gradeRef = new Grade(tempMidtermGrade, tempFinalGrade,
tempQuizGrade, tempHomeworkGrade, lecturesList.get(i));

        st.gradeList.add(gradeRef);
        gradeRef.displayGrade();

    }

}

}

}

}

}

}

break;

case 3: //MANAGER//
System.out.println("Manager ID: ");
        tempID = input.nextInt();
        input.nextLine();
        System.out.println("Manager Password: ");
        tempPassword = input.nextLine();
if (tempID == managerID && tempPassword.equals(managerPassword)) {

```



```

        System.out.println("You have signed in as manager.");
        managerMenu();

        choice3 = input.nextInt();
        input.nextLine();

while (choice3 != 0){
switch (choice3) { //3//

case 1:

        System.out.println("You have chosen to add a new STUDENT!");
        System.out.println("Student ID: ");
        tempID = input.nextInt();
        input.nextLine();
        System.out.println("Student password: ");
        tempPassword=input.nextLine();
        System.out.println("Student's Full name: ");
        tempFullName = input.nextLine();

        System.out.println("Student's Department: ");
        tempDepartment = input.nextLine();

        Student st1 = new Student(tempID, tempPassword,tempFullName,
tempDepartment);

        studentsList.add(st1);
        System.out.println("Student successfully added!");

break;

case 2:

        System.out.println("You have chosen to add a new LECTURER!");
        System.out.println("Lecturer ID: " );
        tempID = input.nextInt();
        input.nextLine();
        System.out.println("Lecturer password: ");
        tempPassword=input.nextLine();
        System.out.println("Lecturer Name: ");
        tempFullName = input.nextLine();
        System.out.println("Salary: ");
        tempSalary = input.nextFloat();

```

```

        input.nextLine();

        Lecturer le1 = new Lecturer(tempID, tempPassword, tempFullName, tempSalary);
        userList.add(le1);
        System.out.println("Lecturer successfully added!");

    break;

    case 3:

        System.out.println("You have chosen to add a new LECTURE!");
        System.out.println("Lecture ID: ");
        tempID = input.nextInt();
        input.nextLine();
        System.out.println("Lecture Name: ");
        tempName = input.nextLine();
        System.out.println("Enter the id of the lecturer of this lecture: " );
        tempID= input.nextInt();
        input.nextLine();

        for (int i=0; i< userList.size(); i++){
            if (tempID==userList.get(i).getID()){

                Lecture lec1 = new Lecture(tempID,tempName,lecturerRef);
                lecturesList.add(lec1);
                System.out.println("Lecture successfully added!");

            }

        }

    break;
    default:

        System.out.println("Wrong choice. Please try again.");

    break;

}

managerMenu();
choice3= input.nextInt();
input.nextLine();
}
}

```

```
break;
```

```
default:
```

```
break;
```

```
    }  
    displayMenu();  
    choice2= input.nextInt();  
    input.nextLine();  
}
```

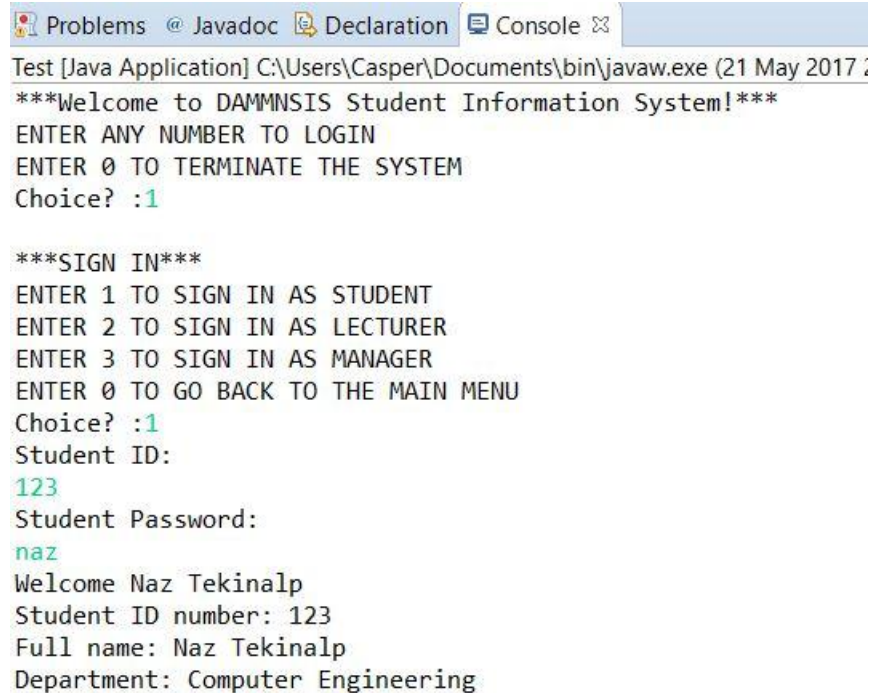
```
}
```

```
}
```

```
}
```

5. SAMPLE OUTPUTS

Example 1 : Sign in as a Student



```
Test [Java Application] C:\Users\Casper\Documents\bin\javaw.exe (21 May 2017 :
***Welcome to DAMMNSIS Student Information System!***
ENTER ANY NUMBER TO LOGIN
ENTER 0 TO TERMINATE THE SYSTEM
Choice? :1

***SIGN IN***
ENTER 1 TO SIGN IN AS STUDENT
ENTER 2 TO SIGN IN AS LECTURER
ENTER 3 TO SIGN IN AS MANAGER
ENTER 0 TO GO BACK TO THE MAIN MENU
Choice? :1
Student ID:
123
Student Password:
naz
Welcome Naz Tekinalp
Student ID number: 123
Full name: Naz Tekinalp
Department: Computer Engineering
```

Example 2 : Sign in as a Lecturer

```
Problems @ Javadoc Declaration Console
Test [Java Application] C:\Users\Casper\Documents\bin\javaw.exe (21 May 2017 21:49:17)
***Welcome to DAMMNSIS Student Information System!***
ENTER ANY NUMBER TO LOGIN
ENTER 0 TO TERMINATE THE SYSTEM
Choice? :2

***SIGN IN***
ENTER 1 TO SIGN IN AS STUDENT
ENTER 2 TO SIGN IN AS LECTURER
ENTER 3 TO SIGN IN AS MANAGER
ENTER 0 TO GO BACK TO THE MAIN MENU
Choice? :2
Lecturer ID:
123
Lecturer Password:
ilker
Welcome Ilker Korkmaz
Lecturer ID: 123
Name: Ilker Korkmaz
Salary: 5000.0

***GRADE MENU***
Plese enter the ID of your lecture:
456
Lecture ID: 456
Lecture name: SE116
Lecturer of this lecture: Ilker Korkmaz
Please enter the ID of your student:
123
Student : Naz Tekinalp
Please enter the number of grades:
1
```

HOMEWORK GRADE 1:

90

QUIZ GRADE 1:

100

MIDTERM GRADE 1:

95

FINAL GRADE 1:

100

Grades for SE116

Homework Grade: 90.0

Quiz Grade: 100.0

Midterm Grade: 95.0

Final Grade: 100.0

Example 3 : Sign in as a Manager

3.1 Add a new Student

```
Problems @ Javadoc Declaration Console
Test [Java Application] C:\Users\Casper\Documents\bin\javaw.exe (21 May 20
***Welcome to DAMMNSIS Student Information System!***
ENTER ANY NUMBER TO LOGIN
ENTER 0 TO TERMINATE THE SYSTEM
Choice? :3

***SIGN IN***
ENTER 1 TO SIGN IN AS STUDENT
ENTER 2 TO SIGN IN AS LECTURER
ENTER 3 TO SIGN IN AS MANAGER
ENTER 0 TO GO BACK TO THE MAIN MENU
Choice? :3
Manager ID:
123
Manager Password:
admin
You have signed in as manager.

****MANAGER MENU****
Which one do you want to add to the system?
ENTER 1 TO ADD A NEW STUDENT
ENTER 2 TO ADD A NEW LECTURER
ENTER 3 TO ADD A NEW LECTURE
ENTER 0 TO GO BACK
Choice? :1
You have chosen to add a new STUDENT!
Student ID:
2016
Student password:
12345
Student's Full name:
Jane Green
Student's Department:
Software Engineering
Student successfully added!
```

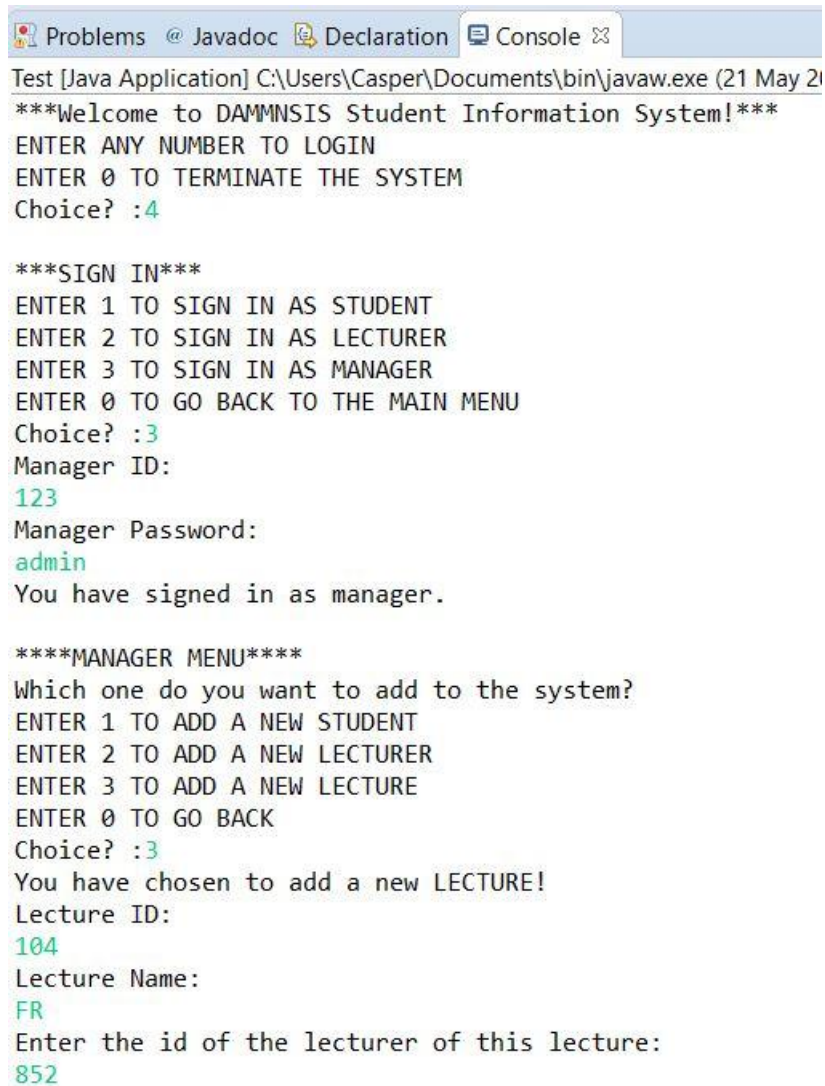
3.2 Add a new Lecturer

```
Problems @ Javadoc Declaration Console
Test [Java Application] C:\Users\Casper\Documents\bin\javaw.exe (21 May)
***Welcome to DAMMNSIS Student Information System!***
ENTER ANY NUMBER TO LOGIN
ENTER 0 TO TERMINATE THE SYSTEM
Choice? :3

***SIGN IN***
ENTER 1 TO SIGN IN AS STUDENT
ENTER 2 TO SIGN IN AS LECTURER
ENTER 3 TO SIGN IN AS MANAGER
ENTER 0 TO GO BACK TO THE MAIN MENU
Choice? :3
Manager ID:
123
Manager Password:
admin
You have signed in as manager.

****MANAGER MENU****
Which one do you want to add to the system?
ENTER 1 TO ADD A NEW STUDENT
ENTER 2 TO ADD A NEW LECTURER
ENTER 3 TO ADD A NEW LECTURE
ENTER 0 TO GO BACK
Choice? :2
You have chosen to add a new LECTURER!
Lecturer ID:
987
Lecturer password:
789
Lecturer Name:
Erdem Okur
Salary:
2000
Lecturer successfully added!
```

3.3 Add a new Lecture



```
Test [Java Application] C:\Users\Casper\Documents\bin\javaw.exe (21 May 2016)
***Welcome to DAMMNSIS Student Information System!***
ENTER ANY NUMBER TO LOGIN
ENTER 0 TO TERMINATE THE SYSTEM
Choice? :4

***SIGN IN***
ENTER 1 TO SIGN IN AS STUDENT
ENTER 2 TO SIGN IN AS LECTURER
ENTER 3 TO SIGN IN AS MANAGER
ENTER 0 TO GO BACK TO THE MAIN MENU
Choice? :3
Manager ID:
123
Manager Password:
admin
You have signed in as manager.

****MANAGER MENU****
Which one do you want to add to the system?
ENTER 1 TO ADD A NEW STUDENT
ENTER 2 TO ADD A NEW LECTURER
ENTER 3 TO ADD A NEW LECTURE
ENTER 0 TO GO BACK
Choice? :3
You have chosen to add a new LECTURE!
Lecture ID:
104
Lecture Name:
FR
Enter the id of the lecturer of this lecture:
852
```


Example 4 : Display Info Created by The Manager

4.1 Display grade created by the Lecturer

```
Problems @ Javadoc Declaration Console
Test [Java Application] C:\Users\Casper\Documents\bin\javaw.exe (21
ENTER 3 TO SIGN IN AS MANAGER
ENTER 0 TO GO BACK TO THE MAIN MENU
Choice? :2
Lecturer ID:
123
Lecturer Password:
ilker
Welcome Ilker Korkmaz
Lecturer ID: 123
Name: Ilker Korkmaz
Salary: 5000.0

***GRADE MENU***
Please enter the ID of your lecture:
456
Lecture ID: 456
Lecture name: SE116
Lecturer of this lecture: Ilker Korkmaz
Please enter the ID of your student:
2016
Student : Jane Green
Please enter the number of grades:
1
HOMEWORK GRADE 1:
98
QUIZ GRADE 1:
95
MIDTERM GRADE 1:
65
FINAL GRADE 1:
35
|
Grades for SE116
Homework Grade: 98.0
Quiz Grade: 95.0
Midterm Grade: 65.0
Final Grade: 35.0
```

4.2 Display grade for the Student

```
***SIGN IN***  
ENTER 1 TO SIGN IN AS STUDENT  
ENTER 2 TO SIGN IN AS LECTURER  
ENTER 3 TO SIGN IN AS MANAGER  
ENTER 0 TO GO BACK TO THE MAIN MENU  
Choice? :1  
Student ID:  
2016  
Student Password:  
12345  
Welcome Jane Green  
Student ID number: 2016  
Full name: Jane Green  
Department: Software Engineering  
  
Grades for SE116  
Homework Grade: 98.0  
Quiz Grade: 95.0  
Midterm Grade: 65.0  
Final Grade: 35.0
```

4.3 Display lecture created by the Manager from Lecturer Menu

```
Problems @ Javadoc Declaration Console
Test [Java Application] C:\Users\Casper\Documents\bin\javaw.exe (21 May 201
***Welcome to DAMMNSIS Student Information System!***
ENTER ANY NUMBER TO LOGIN
ENTER 0 TO TERMINATE THE SYSTEM
Choice? :8

***SIGN IN***
ENTER 1 TO SIGN IN AS STUDENT
ENTER 2 TO SIGN IN AS LECTURER
ENTER 3 TO SIGN IN AS MANAGER
ENTER 0 TO GO BACK TO THE MAIN MENU
Choice? :2
Lecturer ID:
1123
Lecturer Password:
nimet
Welcome Nimet Kardes Sever
Lecturer ID: 1123
Name: Nimet Kardes Sever
Salary: 4000.0

***GRADE MENU***
Plese enter the ID of your lecture:
999
Lecture ID: 999
Lecture name: PHYS101
Lecturer of this lecture: Nimet Kardes Sever
```