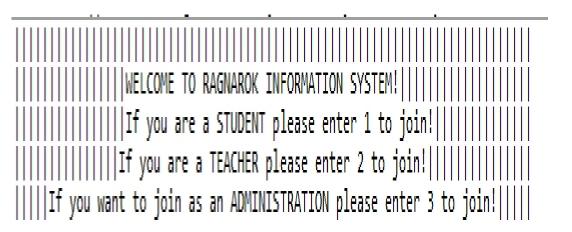
SE116 PROJECT RAGNAROK INFORMATION SYSTEM

- We wanted to develop a Project similar to our OASİS System as a group. (Erşen Pamuk, Berk Özüm Kaya, Hakan Turinay)
- We will introduce our SE 116 Project in this document.

Welcome to Ragnarok InformationSystem

Main Menu:



As you see, we have 3 types of login in this Project.

1.a) Login Screen(forstudent, input 1)

- If you are student, you will see output like this. There is a important thing here!
 - There are 2 IDs available in this output. (correct ID:201606010=Software Engineering) (correct ID:201606020=Computer Engineering)

```
You are trying to join as a student...
Please enter the first 9 digits of your ID: 201606010
Please enter your name: Erşen
What would you like to do Erşen?
```

1.b Functions of Student

These are the functions of student.

1.c - Display of Grades process(for input 1)

```
Please enter your name: Ersen
What would you like to do Erşen?
Press 1 to see grades of your class.
Press 2 to see your profile.
Press 3 to see absenteeisms.
Press -1 to exit.
Please enter '116' to see notes of SE116.
Please enter '154' to see notes of MATH154.
These are the notes of SE116:
      Students
                  NOTES
      ERSEN PAMUK
                   =======> 82
      RANA GÜLER
                   =======> 81
      BERK ÖZÜM KAYA ======> 37
      HAKAN TURİNAY
                  ======> 56
      ZUHAL ASLANCAN
      UMUTCAN HAZIR
                  =======> 62
      UTKU DURMUS
                  =======> 81
      ÖZGÜR BULUT
                  =======> 51
      EREL ÖZTÜRK
      ALİ GİLİM
10
                  =======> 34
11
      GİZAY EROĞLU
12
      SILA TEKCAN
13
      ARDA GÜNAY
                   =======> 100
      KUTAY KOYLAN
                  =======> 99
What would you like to do Erşen?
Press 1 to see grades of your class.
Press 2 to see your profile.
Press 3 to see absenteeisms.
Press -1 to exit.
```

This is the display grades function.

1.d - Display of profile(for input 2)

This is the display profile function.

1.e - Exit(for input -1)

The system quits when the user presses
-1.

2.a - Login Screen(for teacher, input 2)

- If you are lecturer, you will see output like this.
- There is two ID avaliable in this output.
- (correct ID:9991=SE116 lecturer)
- (correct ID:9992=Math154 lecturer)

```
You are trying to join as a teacher...

Please enter your ID: 9991

Please enter your name: İlker

You joined as İlker

Your ID is 9991

Your lesson is SE116.
```

- There are 2 IDs available in this login too.
- 1. ID is 9991 for SE116
 Lecturer login, 2. ID is 9992 for MATH154
 Lecturer login.

2.b- Menu For Teacher

- These are the functions of the Teacher.
- The Student login has the same functions such as display absenteeisms and display grades. Differences here are editing notes, editing grades and displaying analytics of notes.

2.c- Edit Notes(forinput 3)

Before edit

```
ERSEN PAMUK
                    =======> 82
      RANA GÜLER
                    ======> 81
      BERK ÖZÜM KAYA =======> 37
      HAKAN TURİNAY
                    ======> 56
      ZUHAL ASLANCAN
                    =======> 24
      UMUTCAN HAZIR
                    ======> 62
      UTKU DURMUS
                    =======> 81
      ÖZGÜR BULUT
                    ======> 51
      EREL ÖZTÜRK
                    =======> 42
      ALİ GİLİM
                    =======> 34
      GİZAY EROĞLU
                    =======> 10
      SILA TEKCAN
                    =======> 64
      ARDA GÜNAY
                    =======> 100
      KUTAY KOYLAN
                    ======> 99
Which student do you want to edit?(Please write their index.)
Please enter a note for this student.
Changed like this.
      BERK ÖZÜM KAYA 100
```

After edit

```
Students
INDEX
                  NOTES
      ERSEN PAMUK
                  =======> 82
      RANA GÜLER
                  =======> 81
      BERK ÖZÜM KAYA ======> 100
     HAKAN TURİNAY
                  =======> 56
      ZUHAL ASLANCAN
                  ======> 24
      UMUTCAN HAZIR
                  =======> 62
      UTKU DURMUS
                  =======> 81
      ÖZGÜR BULUT
                  ======> 51
      EREL ÖZTÜRK
                  =======> 42
     ALİ GİLİM
                  =======> 34
      GİZAY EROĞLU
                  ======> 10
      SILA TEKCAN
                  =======> 64
      ARDA GÜNAY
                  ======> 100
                  =======> 99
Please enter 1 to display notes.
Please enter 2 to display absenteeism of your lecture.
Please enter 3 to edit notes.
Please enter 4 to edit absenteeisms of your lecture.
Please enter 5 to display analytics of notes.
Please enter -1 to exit.
```

2.d - Average Notes(input5,3)

```
Please enter 1 to see the minimum note of your class.
Please enter 2 to see the maximum note of your class.
Please enter 3 to see the averages of notes of your class.
Please enter 4 to see how many students are successfull.

The average of these notes is 54.866666666667
```

 This is the display analytics of notes function.

2.e - Edit Absenteeism (for input 4)

```
These are absenteeism of SE116 class section:
INDEX
      Students
                   ABSENTEEİSMS
1
      ERSEN PAMUK
2
      RANA GÜLER
3
      BERK ÖZÜM KAYA
                   ---->
      HAKAN TURİNAY
5
      ZUHAL ASLANCAN
      UMUTCAN HAZIR
7
      UTKU DURMUS
                   =========>
8
      ÖZGÜR BULUT
                   =========>
9
      EREL ÖZTÜRK
      ALİ GİLİM
10
11
      GİZAY EROĞLU
                   =======> 18
12
      SILA TEKCAN
                   ========> 11
13
      ARDA GÜNAY
14
      KUTAY KOYLAN
Which student do you want to edit?(please write their index.)
Please enter a new abseentism value for this student.
Changed like this.
      ERSEN PAMUK
Please enter 1 to display notes.
Please enter 2 to display absenteeism of your lecture.
Please enter 3 to edit notes.
Please enter 4 to edit absenteeisms of your lecture.
Please enter 5 to display analytics of notes.
Please enter -1 to exit.
These are the absenteeisms of SE116:
Students
                   ABSENTEEİSM.
1
      ERSEN PAMUK
2
      RANA GÜLER
                   =========>
3
      BERK ÖZÜM KAYA
                   ========>
      HAKAN TURİNAY
      ZUHAL ASLANCAN
      UMUTCAN HAZIR
                   _____>
7
      UTKU DURMUS
                   ========>
8
      ÖZGÜR BULUT
9
      EREL ÖZTÜRK
10
      ALİ GİLİM
11
      GİZAY EROĞLU
                   =======> 18
12
      SILA TEKCAN
13
      ARDA GÜNAY
                   ========> 8
      KUTAY KOYLAN
Please enter 1 to display notes.
Please enter 2 to display absenteeism of your lecture.
```

 This is the edit absenteeism function. You can easily see the change.

2.f - Exit(input -1)

The system quits when the user presses
 -1.

3.a Login Screen and Menu(for Administration, input 3)

```
|||||||||||| If you are a STUDENT please enter 1 to join!|||||||
        ||||||If you are a TEACHER please enter 2 to join!||||||
 ||||If you want to join as an ADMINISTRATION please enter 3 to join!|||
You are trying to join as an Administration...
Please enter your ID: 0001
Please enter your name: Can
You joined as Can
Please enter 1 to edit notes.
Please enter 2 to display grades.
Please enter 3 to display absenteeism of your lecture.
Please enter 4 to edit absenteeisms of your lecture.
Please enter 5 to display analytics of notes.
Please enter 6 to add GPA point
Please enter 7 to see GPA points
Please enter 8 to see Course and Exam Programs
Please enter 9 to edit Course and Exam Programs
Please enter -1 to exit.
```

- There is only one ID available in this login which is 0001.
- These are the functions of the Administration.
 - The Teacher login has the same functions such as display absenteeism, display grades, edit abseenteeism, edit grades and display analytics. Differences here are add GPA, see GPAs, see Course and Exam programs and editing them.

3.b - Add GPA Points (for input 6)

```
ERSEN PAMUK
Enter the GPA of student
2,70
       RANA GÜLER
Enter the GPA of student
       BERK ÖZÜM KAYA
3
Enter the GPA of student
2,25
      HAKAN TURİNAY
Enter the GPA of student
      ZUHAL ASLANCAN
Enter the GPA of student
      UMUTCAN HAZIR
Enter the GPA of student
2,35
      UTKU DURMUS
Enter the GPA of student
2,40
       ÖZGÜR BULUT
Enter the GPA of student
1,40
      EREL ÖZTÜRK
Enter the GPA of student
3,50
      ALİ GİLİM
10
Enter the GPA of student
11
       GTZAY FROĞLU
Enter the GPA of student
2,40
12
      SILA TEKCAN
Enter the GPA of student
2,30
13
       ARDA GÜNAY
Enter the GPA of student
3,70
14
       KUTAY KOYLAN
Enter the GPA of student
```

3.c - See GPA Points(for input 7)

```
14
      KUTAY KOYLAN
Enter the GPA of student
Please enter 1 to edit notes.
Please enter 2 to display grades.
Please enter 3 to display absenteeism of your lecture.
Please enter 4 to edit absenteeisms of your lecture.
Please enter 5 to display analytics of notes.
Please enter 6 to add GPA point
Please enter 7 to see GPA points
Please enter 8 to see Course and Exam Programs
Please enter 9 to edit Course and Exam Programs
Please enter -1 to exit.
These are the GPA's of SE116:
     INDEX Students
                  GPA
      ERSEN PAMUK
                  ======> 2.7
      RANA GÜLER
                  ======> 3.2
      BERK ÖZÜM KAYA ======> 2.25
      HAKAN TURİNAY
                  ======> 2.8
      ZUHAL ASLANCAN
                  ======> 1.8
      UMUTCAN HAZIR
                  ======> 2.35
      UTKU DURMUS
                  =======> 2.4
      ÖZGÜR BULUT
                  =======> 1.4
      EREL ÖZTÜRK
                  ======> 3.5
10
      ALİ GİLİM
                  ======> 2.15
11
      GİZAY EROĞLU
                  ======> 2.4
12
      SILA TEKCAN
                  ======> 2.3
13
      ARDA GÜNAY
                  ======> 3.7
14
      KUTAY KOYLAN
                  ======> 3.7
```

3.d Edit Course and Exam Programs(for input 9)

3.e See Course and Exam Programs(for input 8)

```
Course and Exam Programs:
SE116 M303 23 May 13:30
MATH154 C501 26 May 17:45
Please enter 1 to edit notes.
Please enter 2 to display grades.
Please enter 3 to display absenteeism of your lecture.
Please enter 4 to edit absenteeisms of your lecture.
Please enter 5 to display analytics of notes.
Please enter 6 to add GPA point
Please enter 7 to see GPA points
Please enter 8 to see Course and Exam Programs
Please enter 9 to edit Course and Exam Programs
Please enter -1 to exit.
Which lecture's plan you want to edit (116 for SE116 / 154 for MATH154
Press 1 to edit place
Press 2 to edit date
Press 3 to edit time
Enter the new day
Enter the new month
Please enter 1 to edit notes.
Please enter 2 to display grades.
Please enter 3 to display absenteeism of your lecture.
Please enter 4 to edit absenteeisms of your lecture.
Please enter 5 to display analytics of notes.
Please enter 6 to add GPA point
Please enter 7 to see GPA points
Please enter 8 to see Course and Exam Programs
Please enter 9 to edit Course and Exam Programs
Please enter -1 to exit.
Course and Exam Programs:
SE116 M303 29 May 13:30
MATH154 C501 26 May 17:45
```

3.f Exit(for input -1)

The system quits when the user presses
 -1.

SUMMARY OF RAGNAROK

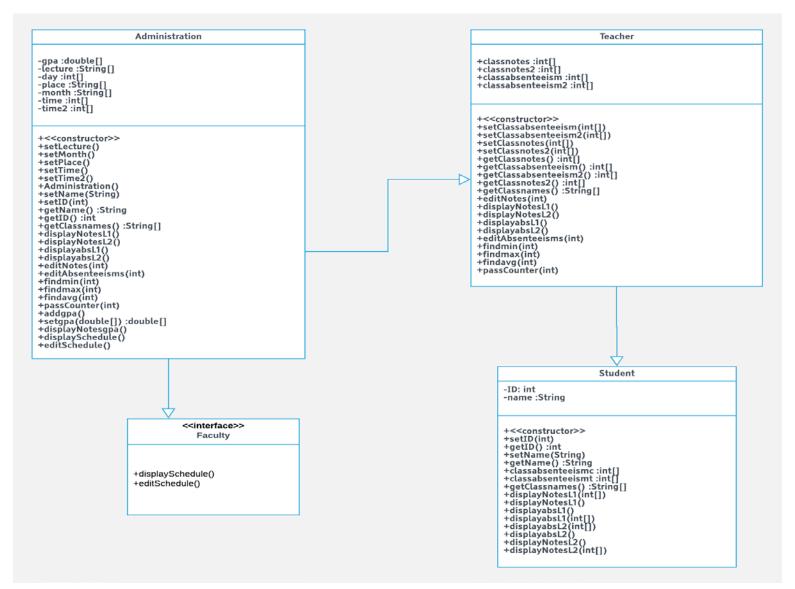
The purpose of the student information project that we developed is instead of displaying different programs which have different features to use only one program and simplify the process.

The services of our applications consist of 3 phases. The first step is through the student class and second step through the teacher's class and the last one is administration class. Besides we have a total of 5 classes. When we start the program, three options are displayed. You need to press the '1' to select the student class. After selecting the student class you need to input your 9 digits student ID. If you input '201606010', you will be joined as a software engineering student but if you input '201606020', you will be joined as a computer engineering student. After inputting the number you will be asked for your name. Then, you will be presented with 3 options. For viewing your grades you will be asked to use '1', for viewing you profile, '2' or for viewing your absenteeism, '3'. There are different codes for viewing your grades and absenteeism for each class. For example you need to enter '116' to view your grades and absenteeism for your programming class and '154' for math class. In case you enter accidentally a different code than these you will be re-directed automatically to the main menu. When you are finished with the student transactions you can exit the program with '-1'. When we select the teacher's options, you will have to enter two different numbers such as '9991' for 'SE116' and '9992' for 'MATH154'. Then the teacher's name is asked. The teacher is able to view and edit absenteeism, grades and profiles. The teacher can also get information about the class average, lowest and highest grades. And finally, when we you joinas an administration you will have to enter '0001'. After you write the ID, the system will ask an user name. Then you will see 9 different options about GPA points, courses and exams etc... You can change the date and place of exams or GPA points. '-1' will exit the program.

 We are not exactly sure did we use the Run-time Polymorphism correctly or not but this is were we used it.

```
@Override
public void displayNotesL1() {
    super.displayNotesL1(getClassnotes()); //Run-time Polymorphism
@Override
public void displayNotesL2() {
    super.displayNotesL2(getClassnotes2()); //Run-time Polymorphism
@Override
public void displayabsL1() {
    super.displayabsL1(getClassabsenteeism()); //Run-time Polymorphism
@Override
public void displayabsL2() {
    super.displayabsL2(getClassabsenteeism2()); //Run-time Polymorphism
```

This is the our UML Class Diagram



PREPARED BY:

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