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3 Introduction

This report covers the features of simple student management system.

4 Interface

This application is compatible with windows OS, and it has no GUI but it runs on windows OS consol.

```
=======================================================================
           Choose one of the following options.

1.Add student.
2.View all.
3.Find roll.
4.Find first name.
5.Show students registered in course.
6.View number of all students.
7.Update student.
8.Delete_student.
9.Exit.
Enter an option:
```

Figure 4.1 application options menu

5 Features

5.1 Adding new student

In adding new student, the new student must have unique roll number if the roll number is taken by another student the application will ask you to re-enter unique roll number as it shown in figure 3.2.

```
Enter an option:1

Enter student roll number:1
Enter student first name:Mohamed
Enter student last name:Mostafa
Enter student GPA:3.5
Enter the ID of five courses:
course number 1 ID:1
course number 2 ID:2
course number 3 ID:3
course number 4 ID:4
course number 5 ID:5


Do you want something else?
(y:for options, press any key:for exit)
```

Figure 5.1 adding new student with unique roll number.

```
Enter an option:1

Enter student roll number:1
this roll number is already taken.
Enter student roll number:
```

Figure 5.2 adding new student with a taken roll number

5.2 View all registered students

```
Enter an option:2

=================================
record number 1
===========
roll number: 1
first name: Mohamed
last name: Mostafa
GPA: 3.50
course number 1 ID:1
course number 2 ID:2
course number 3 ID:3
course number 4 ID:4
course number 5 ID:5
=================================
record number 2
===========
roll number: 2
first name: Omar
last name: Karim
GPA: 3.60
course number 1 ID:2
course number 2 ID:3
course number 3 ID:4
course number 4 ID:8
course number 5 ID:6


Do you want something else?
(y:for options, press any key:for exit)
```

Figure 5.3 view all registered students

5.3 Find a student with his roll number

```
Enter an option:3

Enter roll number to view:1
===========
roll number: 1
first name: Mohamed
last name: Mostafa
GPA: 3.50
course number 1 ID:1
course number 2 ID:2
course number 3 ID:3
course number 4 ID:4
course number 5 ID:5


Do you want something else?
(y:for options, press any key:for exit)
```

Figure 5.4 find student with roll number

5.4 Find students with their first name

```
Enter an option:4

Enter student first name to view:Mohamed
===========
roll number: 1
first name: Mohamed
last name: Mostafa
GPA: 3.50
course number 1 ID:1
course number 2 ID:2
course number 3 ID:3
course number 4 ID:4
course number 5 ID:5
===========
roll number: 3
first name: Mohamed
last name: Sayed
GPA: 3.20
course number 1 ID:5
course number 2 ID:3
course number 3 ID:6
course number 4 ID:7
course number 5 ID:8


Do you want something else?
(y:for options, press any key:for exit)
```

Figure 5.5 find students with first name

5.5 View all students registered in a course

```
Enter an option:5

Enter course ID to show registered students:8
===========
roll number: 2
first name: Omar
last name: Karim
GPA: 3.60
course number 1 ID:2
course number 2 ID:3
course number 3 ID:4
course number 4 ID:8
course number 5 ID:6
===========
roll number: 3
first name: Mohamed
last name: Sayed
GPA: 3.20
course number 1 ID:5
course number 2 ID:3
course number 3 ID:6
course number 4 ID:7
course number 5 ID:8


Do you want something else?
(y:for options, press any key:for exit)
```

Figure 5.6 view all students registered in a course

5.6 View number of all registered students

```
Enter an option:6

number of all students is: 3.

Do you want something else?
(y:for options, press any key:for exit)
```

Figure 5.7 View number of all registered students

5.7 Update student data

For updating student roll number, the user must update with new unique roll number.

```
Enter an option:7

Enter roll number to update:1
Enter a choice.
1.update roll number.
2.update first name.
3.update last name.
4.update GPA.
5.update course ID.
2
Enter first name:Samir
do you want to update another data for this student:(y/n)n


Do you want something else?
(y:for options, press any key:for exit)
```

Figure 5.8 update student data

```
Enter roll number to view:1
===========
roll number: 1
first name: Samir
last name: Mostafa
GPA: 3.50
course number 1 ID:1
course number 2 ID:2
course number 3 ID:3
course number 4 ID:4
course number 5 ID:5


Do you want something else?
(y:for options, press any key:for exit)
```

Figure 5.9 show the student updated data

5.8   Delete a student from system

```
Enter an option:8

Enter roll number to delete:1
student has roll number: 1, is deleted.


Do you want something else?
(y:for options, press any key:for exit)
```

Figure 5.10 deleting a student

```
Enter an option:2

==============================
record number 1
===========
roll number: 2
first name: Omar
last name: Karim
GPA: 3.60
course number 1 ID:2
course number 2 ID:3
course number 3 ID:4
course number 4 ID:8
course number 5 ID:6
==============================
record number 2
===========
roll number: 3
first name: Mohamed
last name: Sayed
GPA: 3.20
course number 1 ID:5
course number 2 ID:3
course number 3 ID:6
course number 4 ID:7
course number 5 ID:8


Do you want something else?
(y:for options, press any key:for exit)
```

Figure 5.11 view remained students