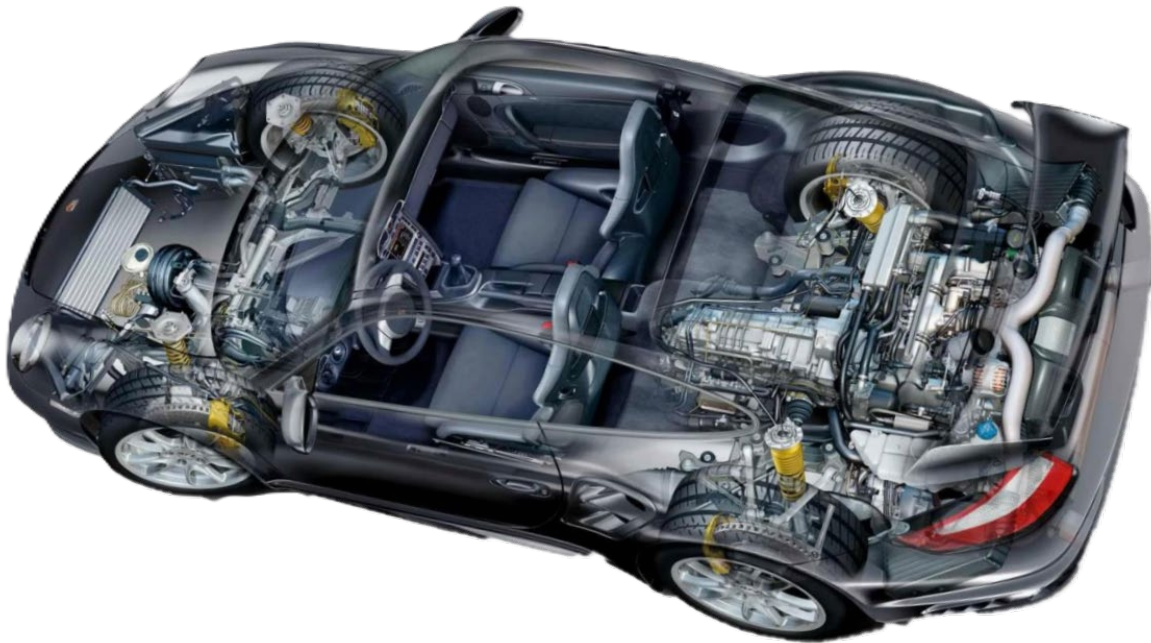


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# STUDENT MANAGEMENT SYSTEM

## Abstract

Program to Build a Simple Software for Student Information Management System which can Perform the Following Statement.

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GitHub Repo: [https://github.com/Ayat237/Embedded\\_system\\_online\\_diploma.git](https://github.com/Ayat237/Embedded_system_online_diploma.git)

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## 1. Case Study

- Program to Build a Simple Software for Student Information Management System which can Perform the Following Statement.
  - Add Student Details from File.
  - Add Student Details Manually.
  - Find Student by the given Roll Number.
  - Find Student by the given First Name.
  - Find Students Registered in a Course.
  - Total Number of Students in List.
  - Delete a Student from Queue List.
  - Update Student Data.
  - Show All Students in Our Queue.
  - Exit.

## 2. Beginning The Program

- Wait until user choose from options

[illegible]

### 3. Add Student Manually

- After choose the option to add student ,the user will enter the data ,this have many cases

### 1. Case-1 : Adding Id which not Exist in the list

[illegible][illegible]

## 2. Case-2 : Adding Id which Exist in the list

[illegible]

## 4. Add Student From File

- Get Data from File and Add Student to Our List. While Adding the Student to the List, Check for the uniqueness of ID Number.
- File :

```
File Edit View

4 John Doe 3.75 101 102 103 104 105
5 Jane Smith 3.85 201 202 203 204 205
```

### 1. Case-1 : Adding Id which not Exist in the list

[illegible]

## 2. Case-2 : Adding Id which Exist in the list

```
Enter your option : 2
[ERROR!!] This ID 4 already exists
[ERROR!!] This ID 5 already exists
```

```
Student_Management_System.exe [C/C++ Application] [pid: 11]
Enter your option : 1
Enter the student id :4
Enter The Student First Name :Ayat
Enter The Student Last Name :Mohamed
Enter the student GPA :3.6
Enter Course ID #1 : 100
Enter Course ID #2 : 300
Enter Course ID #3 : 107
Enter Course ID #4 : 109
Enter Course ID #5 : 103
```

The student Is Added Successfully:)

```
Choose from of the one following options
Choose(1) : to add student details manually
Choose(2) : to add student details from text file
Choose(3) : to find student details using Id
Choose(4) : to find student details using first name
Choose(5) : to to find student details using course Id
Choose(6) : to Find the total number of students
Choose(7) : to Update student using Id
Choose(8) : to delete student using Id
Choose(9) : to view_all_students
Choose(10) : to Exit
```

```
Enter your option : 2
[ERROR!!] This ID 4 already exists
Student with ID 5 added successfully
```

## 5. Find Student Details from ID

- It Find the Student Record for the given ID Number and Print Student Details.

### 1. Case-1 : Adding Id which Exist in the list

[illegible]

## 2. Case-2 : Adding Id which Not Exist in the list

[illegible]

## 6. Search By First Name

- It Find the Student Record for the given First Name and Print Student Details.

### 1. Case-1 : Adding First Name which Exist in the list

[illegible]

## 2. Case-2 : Adding First Name which Not Exist in the list

[illegible]



## 7. Search By Course-ID

- It Find the Student Record for the given First Name and Print Student Details.
1. Case-1 : Adding CourseID which Exist in the list

[illegible]

## 8. Print Total Student Number

[illegible]

## 9. Update Student With ID Number

### 1. Case-1 : Update First Name

[illegible]

## 2. Case-2 : Update Last Name

[illegible]

### 3. Case-3 : Update ID Number

[illegible]

#### 4. Case-4 : Update GPA

[illegible]

## 5. Case-5: Update Courses

[illegible]

## 6. Case-6: Update Courses

[illegible]

## 10.Delete Student With ID Number

[illegible]

## 11.Show All Students

## 1. Case-1: Before Deleting

[illegible]

## 2. Case-2: After Deleting

```
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>><<<<<<<<<<<<<<<<
Enter your option : 9
>>>>>>>>>>Students<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<
Student No 1 :
First Name : John
Last Name : Doe
ID : 4
GPA : 3.75
Course ID #1 : 101
Course ID #2 : 102
Course ID #3 : 103
Course ID #4 : 104
Course ID #5 : 105
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>><<<<<<<<<<<<<<<<<<<<<<
Student No 2 :
First Name : Jane
Last Name : Smith
ID : 5
GPA : 3.85
Course ID #1 : 201
Course ID #2 : 202
Course ID #3 : 203
Course ID #4 : 204
Course ID #5 : 205
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>><<<<<<<<<<<<<<<<<<<<<<
Student No 3 :
First Name : Ayat
Last Name : Mohamed
ID : 1
GPA : 3.60
Course ID #1 : 100
```

- Total Numbers After Deleting

[illegible]

## 12. Exit

[illegible]