

# Project for the Degree of B.Sc. Engineering

Project Name: Student Management  
System

Student Name: Girish Mondal

Student Id: 17CSE063

Course Code: CSE178

Session: 2017-2018

**Supervised By :**

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Lecturer

Dept. of Computer science and Engineering  
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Technology University .

## **Project Approval**

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Student Name: Girish Mondal

Student ID: 17CSE063

Project Title : Student Management System

We the undersigned, recommend that the project completed by the student listed above, in partial fulfillment of B.Sc. Engineering degree requirements, be accepted by the Department of Computer Science and Engineering, Bangabandhu Sheikh Mujibur Rahman Science and Technology for deposit.

### **Supervisor Approval**

Maimuna Begum Kali

Lecturer

Department of Computer Science and Engineering

### **Departmental Approval**

MD. Akkas Ali

Chairman

Department of Computer Science and Engineering

Bangabandhu Sheikh Mujibur Rahman Science and Technology

University .

# Table of Contents

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<b><u>Contents</u></b>	<b><u>Page Number</u></b>
<b>1. Chapter 1:</b>	<b>03-04</b>
• Abstract	
• Acknowledgement	
• Introduction	
<b>2. Chapter 2:</b>	<b>05</b>
• Motivation	
<b>3. Chapter 3:</b>	<b>06</b>
• Related Works	
<b>4. Chapter 4:</b>	<b>07</b>
• Implementation	
<b>5. Chapter 5:</b>	<b>08-14</b>
• User Manual	
1. Main Menu	
2. Adding Student Information	
3. Searching Students Information	
4. All Students List	
5. Modify Information	
6. Delete Students Information	
7. View the size of file	
8. Exit	
<b>6. Chapter 6:</b>	<b>15</b>
• Future Works	
<b>7. Chapter 7:</b>	<b>16</b>
• Conclusion	
<b>8. Chapter 8:</b>	<b>17</b>
• References	

# Chapter 1

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## **Abstract :**

The project titled “Student Management System” is a database software. My project based on C++ programming language. It helps to add student information , modify information , search information , delete information and show all the records added to the software . This application is created using file handling based on C++ programming language.

## **Acknowledgement :**

In this very special moment, first and foremost I would like to express my heartiest gratitude to the almighty. God for allowing me to accomplish this project successfully. It is my first project .Then I like to give many thanks to my project supervisor Maimuna Begum Kali, Lecturer, Department of Computer Science and Engineering , who encouraged, supervised and supplied necessary requirements and guideline in performing this work. In achieving the gigantic goal, I have gone through the interactions with and help from internet and would like to extend my deepest appreciation to those who have contributed to this dissertation itself in an essential way.

## **Introduction:**

Now we are living in the ocean of science and technology. This is possible for the purposes of programing. The main purpose of this project is to know about file handling and use it . The Project is a kind of database that the user add some information of a student and In this project the user can delete, edit , search information of a student which is added to the file. The project may not work if the user fail to add the correct information . By using this project users can know the file handling knowledge .

## Chapter 2

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### **Motivation:**

Now the world going on the programing. Every sector can be developed by using programing. Most of the developed counties of the world developing their sector by using programing. In our country we can use programing all the sectors to improve it. But we could not do it at all. We have a lack of huge number of good programmers. So to consider and improve this situation I create this project.

## Chapter 3

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### **Related Works:**

Like this project there are a lot of project available. There are some projects with different activities. They are

- Bank Management System
- University Result Management System
- Simple Database.

## Chapter 4

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### **Implementation :**

Implementing this project is not a very short time project. It is created by C++ language using file handling. It takes a long time to make this project. It needs some tools to complete this project such as Code::Blocks. There is also necessity of having the knowledge on C++ language, File handling.

### **Project Perspective :**

The Student Management System that I made some software and hardware interface. Without this interface the application cannot run properly.

### **Hardware specifications :**

- Processor : Dual core, core i3 , core i5
- Hard Disk : 512 GB
- RAM : 2 GB

### **Software specifications :**

- Operating System : Windows 7, 8, 10 or Linux
- Software : Code::Blocks , Dev-C++



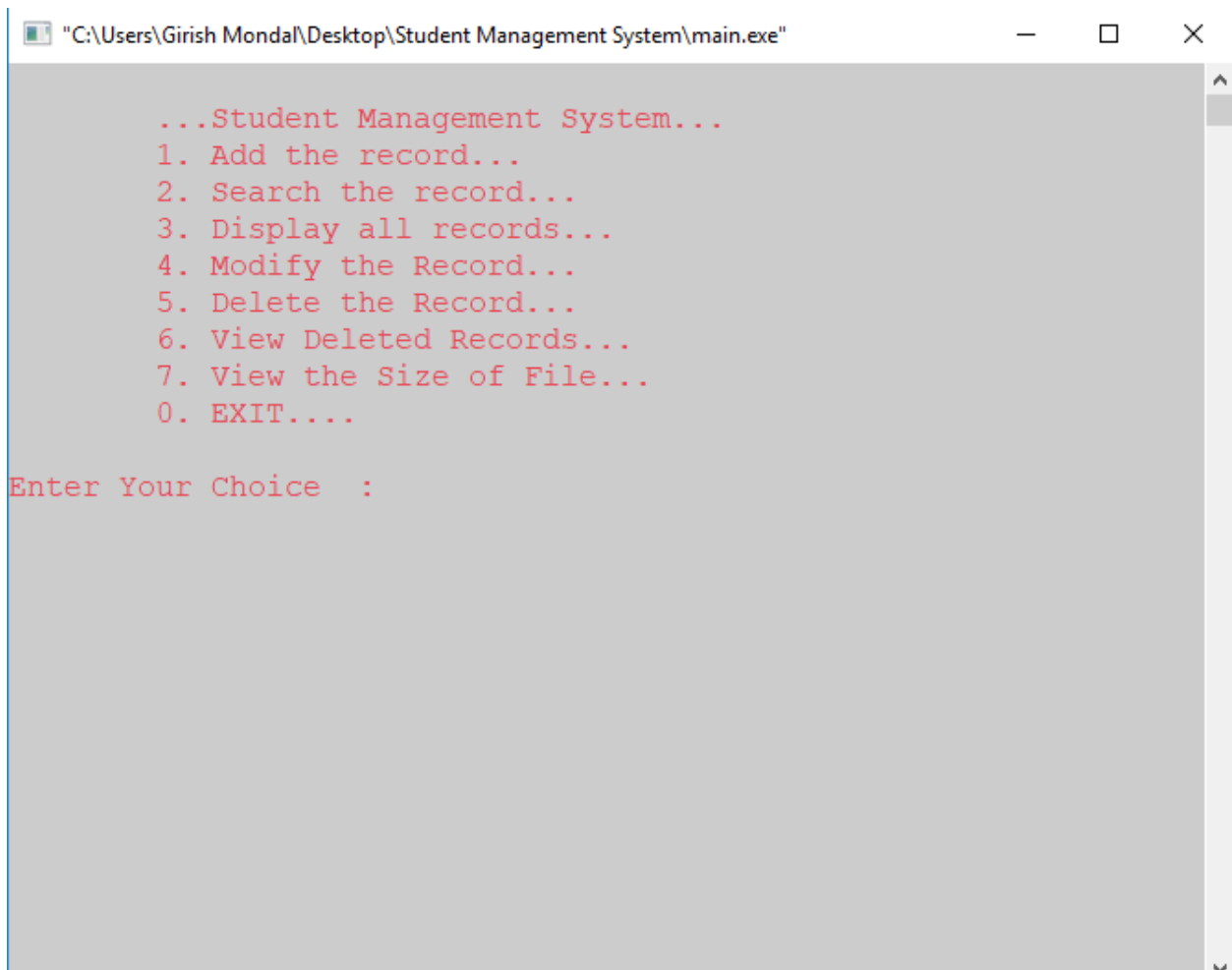
## Chapter 5

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### User Manual :

#### 1. Main menu :

The main window represents the overview of the project. When the user run the project the main window of the project will be appeared to the user. The main window given in the below:

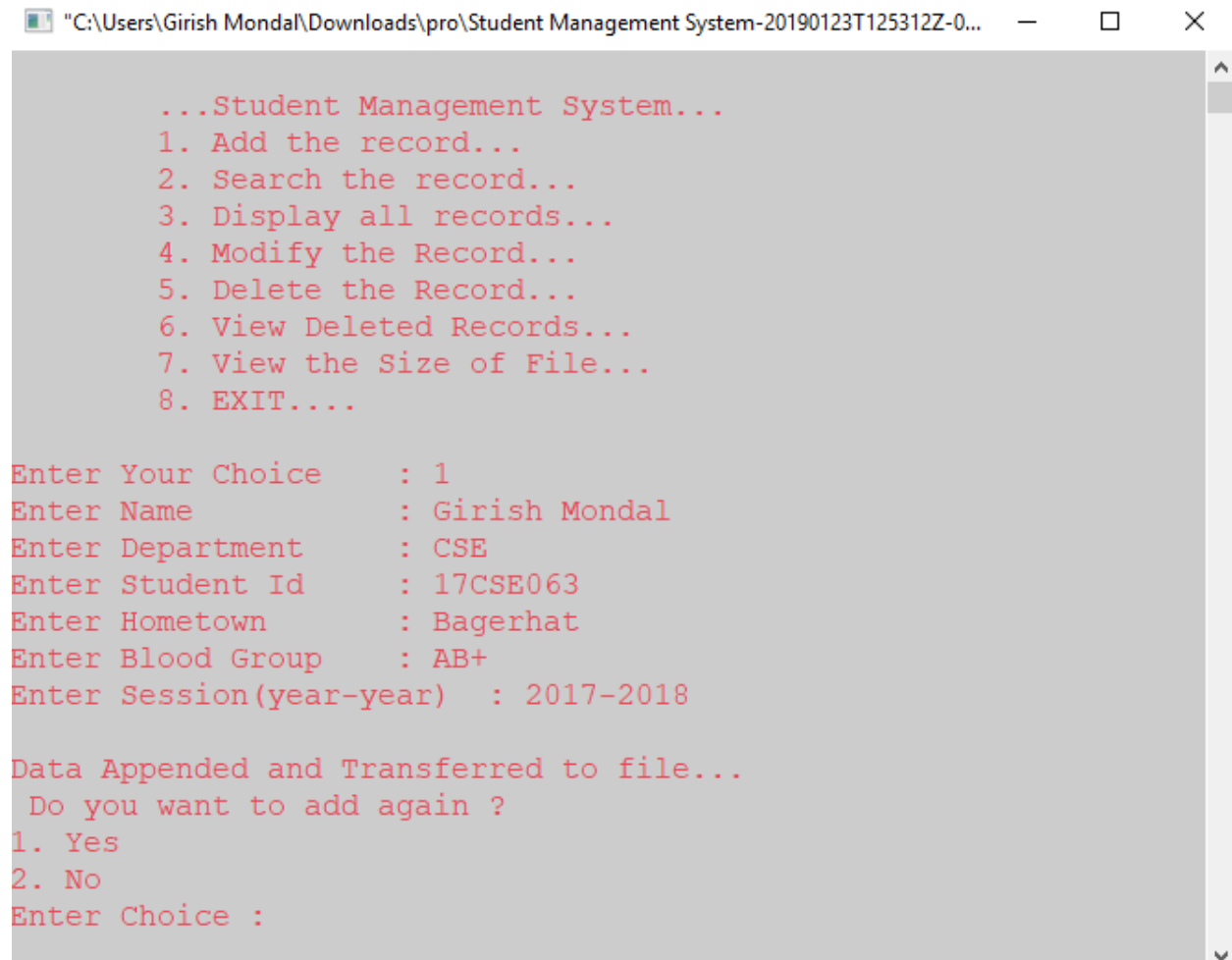


```
...Student Management System...
1. Add the record...
2. Search the record...
3. Display all records...
4. Modify the Record...
5. Delete the Record...
6. View Deleted Records...
7. View the Size of File...
0. EXIT....

Enter Your Choice  :
```

## 2. Adding Student Information :

In the main menu user can see all the option .If the user choice number one on the application window , then he can add student information like below :



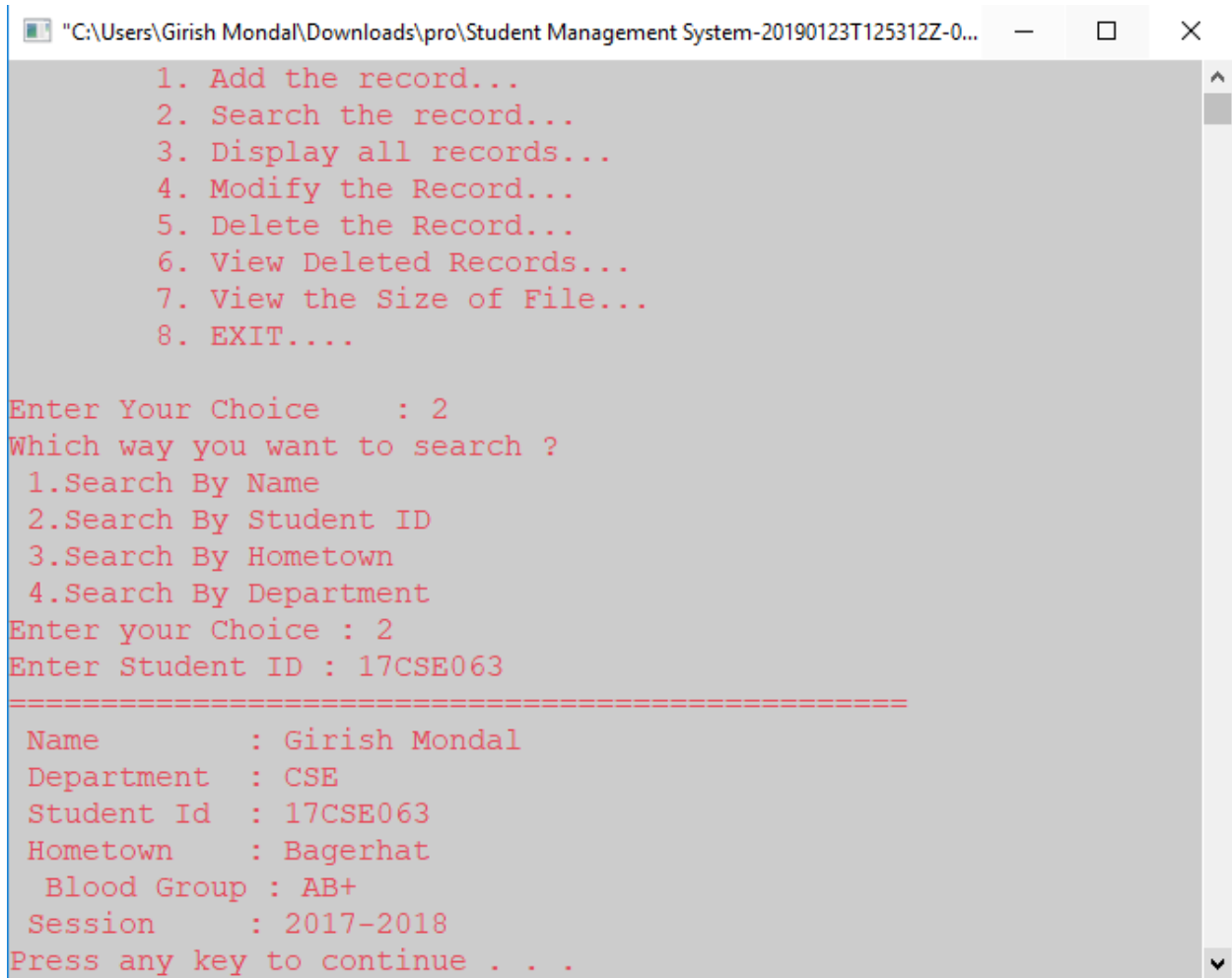
```
...Student Management System...
1. Add the record...
2. Search the record...
3. Display all records...
4. Modify the Record...
5. Delete the Record...
6. View Deleted Records...
7. View the Size of File...
8. EXIT....

Enter Your Choice      : 1
Enter Name             : Girish Mondal
Enter Department       : CSE
Enter Student Id      : 17CSE063
Enter Hometown        : Bagerhat
Enter Blood Group     : AB+
Enter Session(year-year) : 2017-2018

Data Appended and Transferred to file...
Do you want to add again ?
1. Yes
2. No
Enter Choice :
```

### 3. Searching Students Information :

When the user enters the number 2 from the user manual then the search program will work. The user can search the data in different ways like Search by Name, Search by Student Id, Search By Department, Search By Hometown.

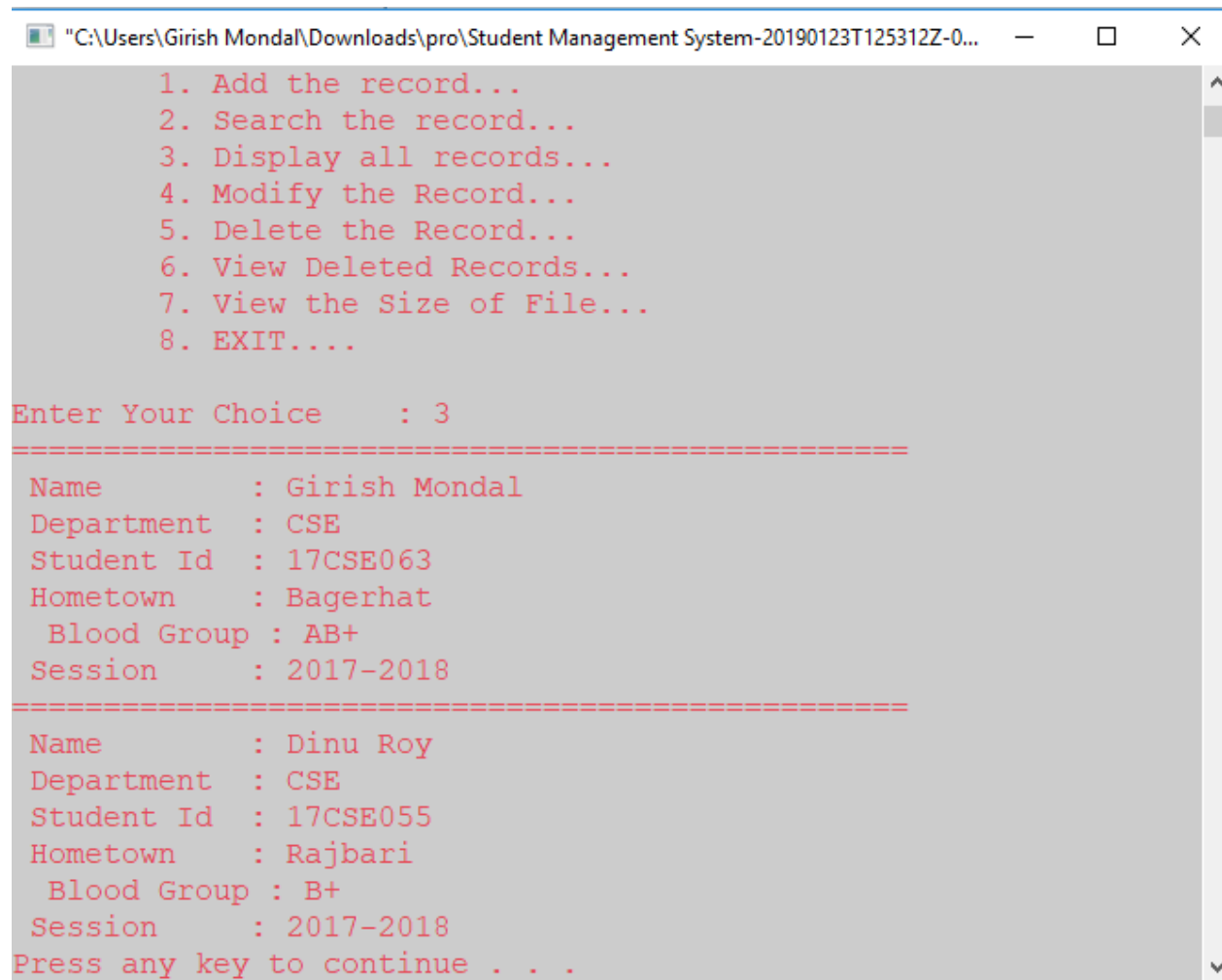


```
"C:\Users\Girish Mondal\Downloads\pro\Student Management System-20190123T125312Z-0..."
1. Add the record...
2. Search the record...
3. Display all records...
4. Modify the Record...
5. Delete the Record...
6. View Deleted Records...
7. View the Size of File...
8. EXIT....

Enter Your Choice      : 2
Which way you want to search ?
1.Search By Name
2.Search By Student ID
3.Search By Hometown
4.Search By Department
Enter your Choice : 2
Enter Student ID : 17CSE063
=====
Name       : Girish Mondal
Department : CSE
Student Id : 17CSE063
Hometown   : Bagerhat
Blood Group : AB+
Session    : 2017-2018
Press any key to continue . . .
```

#### 4. All Students List :

If the user wants to show all the students data at all then he has to press number 3 on the console and the screen will be like :



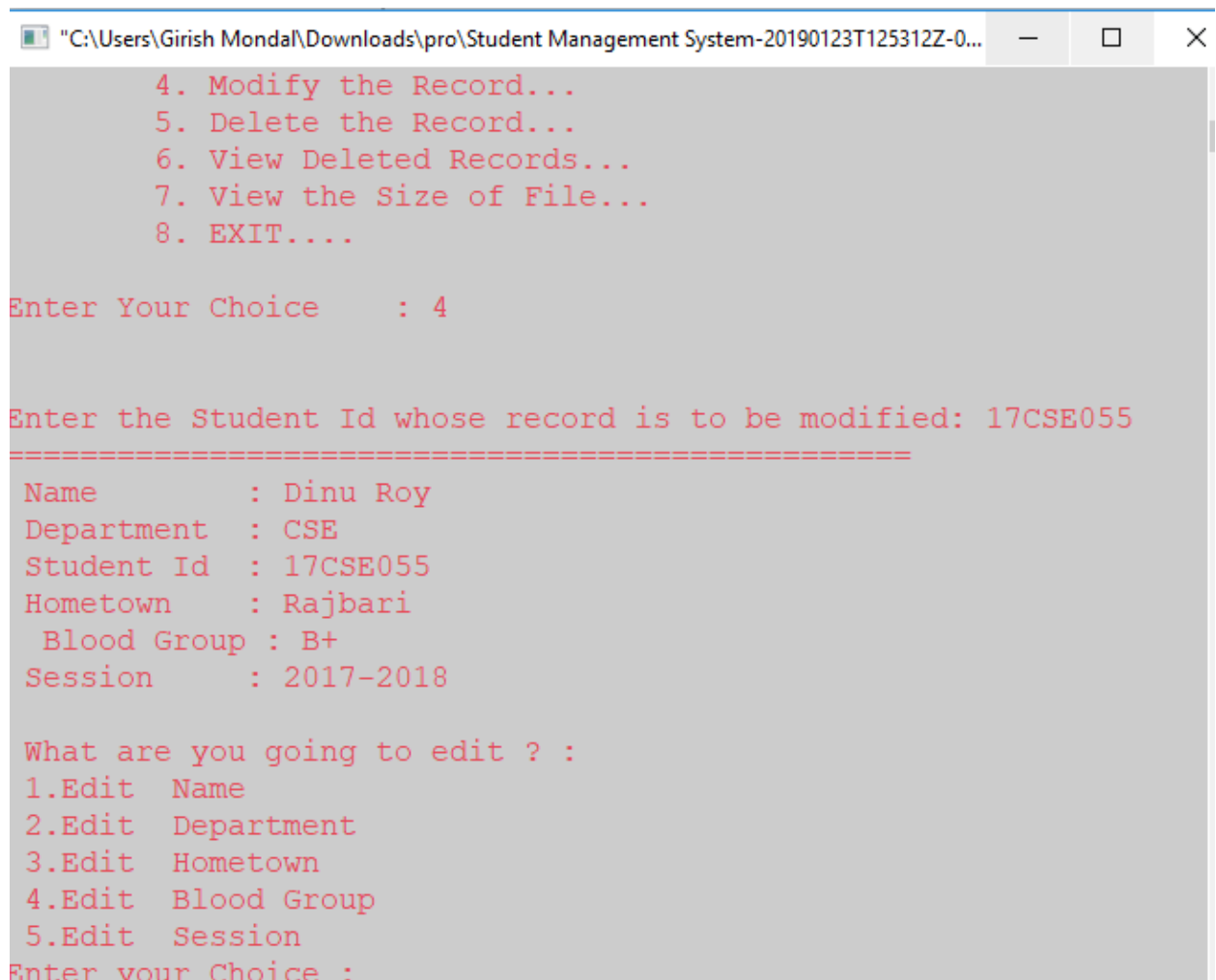
```
"C:\Users\Girish Mondal\Downloads\pro\Student Management System-20190123T125312Z-0...  -  □  ×

1. Add the record...
2. Search the record...
3. Display all records...
4. Modify the Record...
5. Delete the Record...
6. View Deleted Records...
7. View the Size of File...
8. EXIT....

Enter Your Choice      : 3
=====
Name       : Girish Mondal
Department : CSE
Student Id : 17CSE063
Hometown   : Bagerhat
Blood Group : AB+
Session    : 2017-2018
=====
Name       : Dinu Roy
Department : CSE
Student Id : 17CSE055
Hometown   : Rajbari
Blood Group : B+
Session    : 2017-2018
Press any key to continue . . .
```

## 5. Modify Information :

If the user wants to modify the records which are added to the files , he has to press number 3 on the screen . He can modify records in different ways . The user can edit name , department , hometown , blood group ,session .



```
"C:\Users\Girish Mondal\Downloads\pro\Student Management System-20190123T125312Z-0...  -  □  ×

4. Modify the Record...
5. Delete the Record...
6. View Deleted Records...
7. View the Size of File...
8. EXIT....

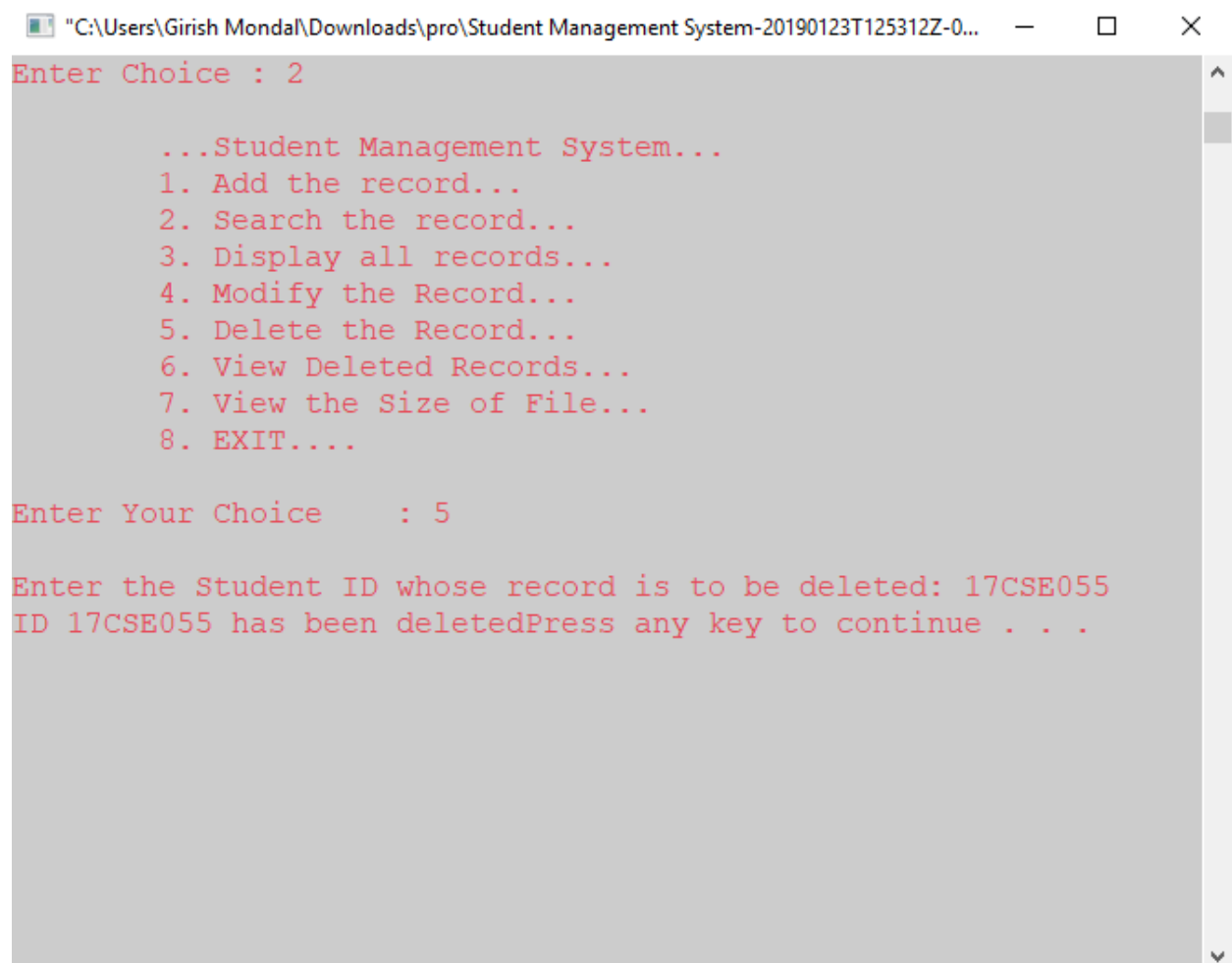
Enter Your Choice      : 4

Enter the Student Id whose record is to be modified: 17CSE055
=====
Name      : Dinu Roy
Department : CSE
Student Id : 17CSE055
Hometown  : Rajbari
Blood Group : B+
Session   : 2017-2018

What are you going to edit ? :
1.Edit  Name
2.Edit  Department
3.Edit  Hometown
4.Edit  Blood Group
5.Edit  Session
Enter your Choice :
```

## 6. Delete Students Information :

If the user wants to delete the students information , he has to press number 5 on the screen and then give the student id whom you want to delete .



```
"C:\Users\Girish Mondal\Downloads\pro\Student Management System-20190123T125312Z-0..."
Enter Choice : 2

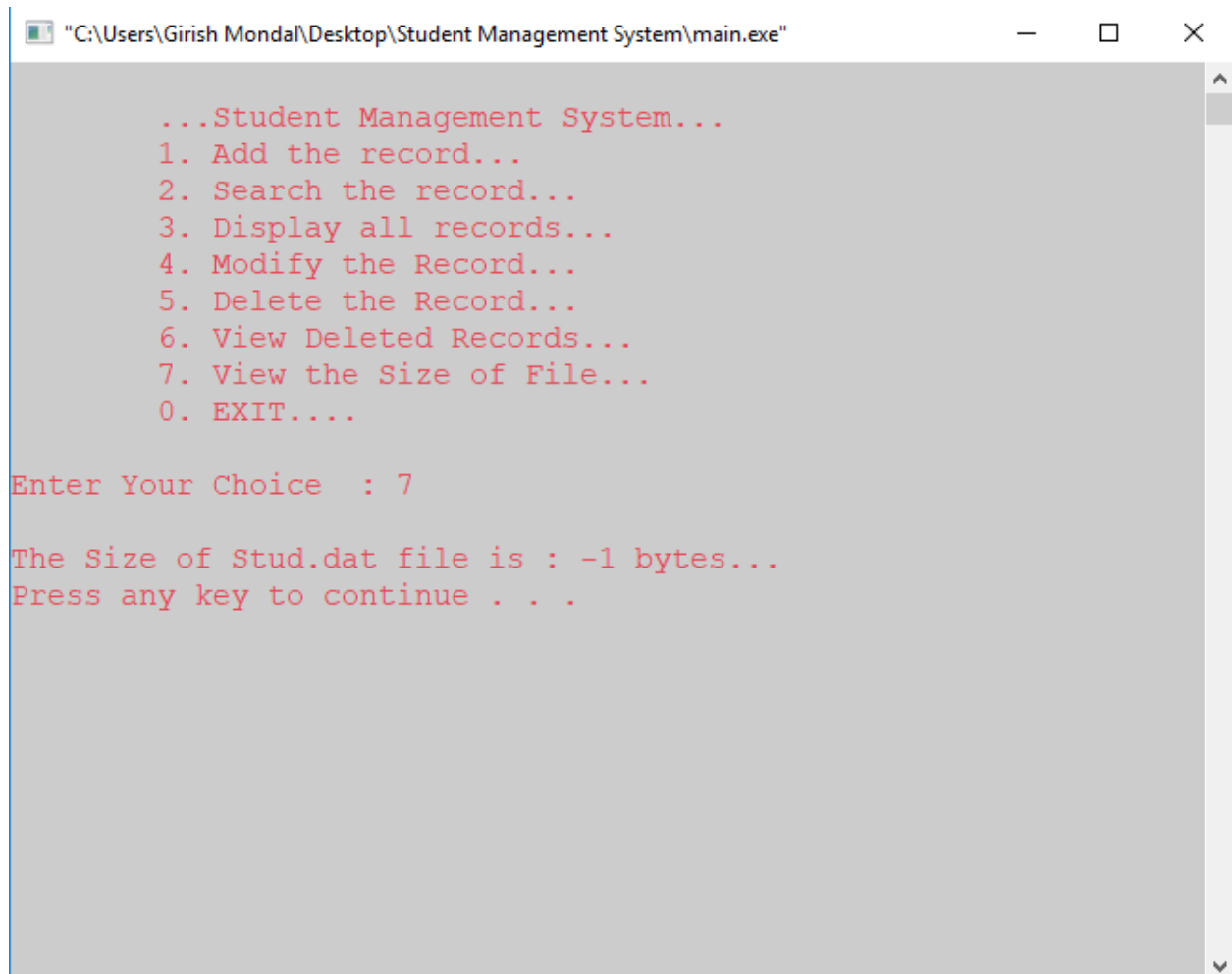
...Student Management System...
1. Add the record...
2. Search the record...
3. Display all records...
4. Modify the Record...
5. Delete the Record...
6. View Deleted Records...
7. View the Size of File...
8. EXIT....

Enter Your Choice : 5

Enter the Student ID whose record is to be deleted: 17CSE055
ID 17CSE055 has been deletedPress any key to continue . . .
```

## 7. View the Size of File :

If the user wants to know the size of file, he just has to choose number 7 on the application .



```
...Student Management System...
1. Add the record...
2. Search the record...
3. Display all records...
4. Modify the Record...
5. Delete the Record...
6. View Deleted Records...
7. View the Size of File...
0. EXIT....

Enter Your Choice : 7

The Size of Stud.dat file is : -1 bytes...
Press any key to continue . . .
```

## Chapter 06

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### **Future Work :**

No project is at its best. Every project in this world gets its upgrade. So I thought I would also develop this project in the future. I want to add graphics in it.. I also include some code to be look and run comfortable and improve it to look beautiful.



## Chapter 07

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### **Conclusion :**

At this time we are living in digital era. To utilize digital system we should know about programing. Now to carry on with the world we should know about digitalism. To about programing I think my project will be very helpful. It is very friendly to the user. By using this project he or she can improve himself or herself in the sector of programing.

Hence the Student Management System has been designed to introduce programing to the world and utilize to it.

## Chapter 08

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### References :

- <https://www.wikipedia.org>
- <https://www.google.com>
- <https://www.stackflow.com>