

PPS MINI PROJECT

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RA2111029010014

L1

Mini Project with file Management

**STUDENT MANAGEMENT STORAGE
MANAGEMENT SYSTEM**

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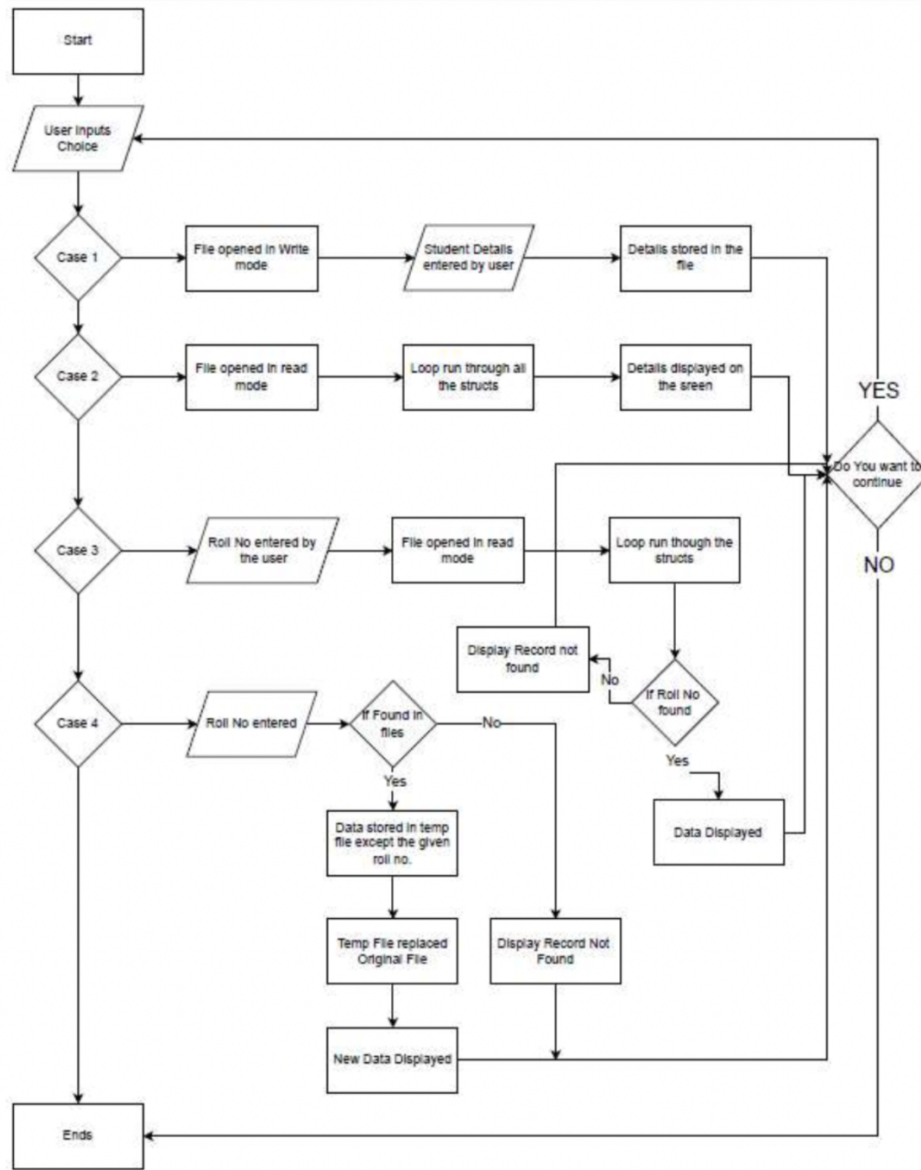
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**STUDENT MANAGEMENT STORAGE
MANAGEMENT SYSTEM**

FLOWCHART:



This is a basic program using file handling to store a student's data in a text file and manipulate it according to the choices provided to the user while running the program.

The data of the student contains basic information like first name, last name, roll number, address, course, etc.

The program allows the user to perform following tasks :

- Add record
- List out the Records
- Search for the records
- Delete a record
- Exit the portal

The following program creates a file to store the data and further manipulation is done with help of the information present in the file.

Code:

[illegible]

```

109     struct student info;
110     fp = fopen("srmist_students_record.txt", "r");
111     printf("\t\t\t\t\t=====SRMIST STUDENTS RECORD=====\\n\\n");
112     if (fp == NULL)
113     {
114         fprintf(stderr, "can't open file\\n");
115         exit(0);
116     }
117     else
118     {
119         printf("\\n\\t\\t\\tRECORDS :\\n");
120         printf("\\t\\t\\t\\t_____\\n\\n");
121     }
122     while (fread(&info, sizeof(struct student), 1, fp))
123     {
124         printf("\\n\\t\\t\\t\\t Student Name   : %s %s", info.first_name, info.last_name);
125         printf("\\n\\t\\t\\t\\t Roll NO       : %d", info.roll_no);
126         printf("\\n\\t\\t\\t\\t Class        : %s", info.Class);
127         printf("\\n\\t\\t\\t\\t Address     : %s", info.Address);
128         printf("\\n\\t\\t\\t\\t Percentage    : %f", info.per);
129         printf("\\n\\t\\t\\t\\t _____\\n");
130     }
131     fclose(fp);
132     getch();
133 }
134 // Function to search any student
135 void searchstudent()
136 {
137     struct student info;
138     FILE *fp;
139     int roll_no, found = 0;
140     fp = fopen("srmist_students_record.txt", "r");
141     printf("\\t\t\t\t\t=====SEARCH SRMIST STUDENTS RECORD=====\\n\\n");
142     printf("\\t\\t\\tEnter the roll no : ");
143     scanf("%d", &roll_no);
144     while (fread(&info, sizeof(struct student), 1, fp) > 0)
145     {
146         if (info.roll_no == roll_no)
147         {
148             found = 1;
149             printf("\\n\\n\\t\\t\\tStudent Name : %s %s", info.first_name, info.last_name);
150             printf("\\n\\t\\t\\tRoll NO       : %d", info.roll_no);
151             printf("\\n\\t\\t\\tClass        : %s", info.Class);
152             printf("\\n\\t\\t\\tAddress     : %s", info.Address);
153             printf("\\n\\t\\t\\tPercentage    : %f", info.per);
154             printf("\\n\\t\\t\\t_____\\n");
155         }
156     }
157     if (!found)
158     {
159         printf("\\n\\t\\t\\tRecord not found\\n");
160     }
161     fclose(fp);
162     getch();
163 }

```

```

164 // Function to delete a record/student
165 void delete ()
166 {
167     struct student info;
168     FILE *fp, *fp1;
169     int roll_no, found = 0;
170     printf("\t\t\t\t\t=====DELETE STUDENTS RECORD=====\\n\\n\\n");
171     fp = fopen("srmist_students_record.txt", "r");
172     fp1 = fopen("temp.txt", "w");
173     printf("\t\t\t\t\tEnter the roll no : ");
174     scanf("%d", &roll_no);
175     if (fp == NULL)
176     {
177         fprintf(stderr, "can't open file\\n");
178         exit(0);
179     }
180
181     while (fread(&info, sizeof(struct student), 1, fp))
182     {
183         if (info.roll_no == roll_no)
184         {
185             found = 1;
186         }
187         else
188         {
189             fwrite(&info, sizeof(struct student), 1, fp1);
190         }
191     }
192     fclose(fp);
193     fclose(fp1);
194     if (!found)
195     {
196         printf("\\n\\t\\t\\t\\tRecord not found\\n");
197     }
198     if (found)
199     {
200         remove("srmist_students_record.txt");
201         rename("temp.txt", "srmist_students_record.txt");
202         printf("\\n\\t\\t\\t\\tRecord deleted succesfully\\n");
203     }
204     getch();
205 }

```


OUTPUT :

```
C:\Users\Sayyad Abid\Desktop\PPS\pps.exe

=====
= WELCOME TO SRMIST STUDENT DATABASE MANAGEMENT SYSTEM =
=====

1. Add Student
2. Students Records
3. Search Student
4. Delete Student
5. Exit
-----
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-----

Enter the provided choice:

=====Add Students Info=====

Enter First Name : Andrew
Enter Last Name : Smith
Enter Roll-No (Integer Only) : 134
Enter Class(course) : B.Tech
Enter Address : Hulululu
Enter Percentage : 98

Record stored successfully

You want to add another record?(y/n) : y
```

```
=====Add Students Info=====

Enter First Name : Alexa
Enter Last Name : Jordan
Enter Roll-No (Integer Only) : 135
Enter Class(course) : B.Arch
Enter Address : Hawaii
Enter Percentage : 99

Record stored successfully

You want to add another record?(y/n) : n

=====
= WELCOME TO SRMIST STUDENT DATABASE MANAGEMENT SYSTEM =
=====

1. Add Student
2. Students Records
3. Search Student
4. Delete Student
5. Exit
-----
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-----

Enter the provided choice:
```

=====SRMIST STUDENTS RECORD=====

RECORDS :

Student Name : Andrew Smith
Roll NO : 134
Class : B.Tech
Address : Hulululu
Percentage : 98.000000

Student Name : Alexa Jordan
Roll NO : 135
Class : B.Arch
Address : Hawaii
Percentage : 99.000000

press any key to exit.....

=====

= WELCOME TO SRMIST STUDENT DATABASE MANAGEMENT SYSTEM =

=====

1. Add Student
2. Students Records
3. Search Student
4. Delete Student
5. Exit

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Enter the provided choice:

=====SEARCH SRMIST STUDENTS RECORD=====

Enter the roll no : 134

Student Name : Andrew Smith
Roll NO : 134
Class : B.Tech
Address : Huilulu
Percentage : 98.000000

Press any key to exit.....

=====WELCOME TO SRMIST STUDENT DATABASE MANAGEMENT SYSTEM =====

1. Add Student
2. Students Records
3. Search Student
4. Delete Student
5. Exit

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Enter the provided choice:

=====DELETE STUDENTS RECORD=====

Enter the roll no : 134

Record deleted succesfully

Press any key to exit.....

=====WELCOME TO SRMIST STUDENT DATABASE MANAGEMENT SYSTEM =====

```
=====
= WELCOME TO SRMIST STUDENT DATABASE MANAGEMENT SYSTEM =
=====
```

1. Add Student
2. Students Records
3. Search Student
4. Delete Student
5. Exit

```
-----
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-----
```

Enter the provided choice:

```
=====SRMIST STUDENTS RECORD=====
```

RECORDS :

```
Student Name : Alexa Jordan
Roll NO      : 135
Class       : B.Arch
Address    : Hawaii
Percentage  : 99.000000
```

press any key to exit....

```
=====
= WELCOME TO SRMIST STUDENT DATABASE MANAGEMENT SYSTEM =
=====
```

1. Add Student
2. Students Records
3. Search Student
4. Delete Student
5. Exit

```
-----
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-----
```