



Green University of Bangladesh
Department of Computer Science and Engineering (CSE)
Faculty of Sciences and Engineering
Semester: (Spring, Year:2022), B.Sc. in CSE (Day)

Course Title: Data Structures Lab

Course Code: CSE -106

Section: PC- 213 DA

Lab Project Name: Students Record System

Student Details

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Submission Date : 11-09-2022

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[For Teachers use only: **Don't Write Anything inside this box**]

Lab Project Status

Marks:

Signature:

Comments:

Date:

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Chapter 1

Introduction

1.1 Introduction

This project dedicated by my Mom, Father & My family. In this project we discuss how to create a students record system. How to used getoxy fuction.

1.2 Design Goals/Objective

- i. Successfully use getoxy & setcolor function.
- ii. Successfully used Switch function.
- iii. Successfully used Loop (while,for)
- iv. Successfully complete project.

Chapter 2

Design/Development/Implementation of the Project

2.1 Design

This project design picture is like that the below :

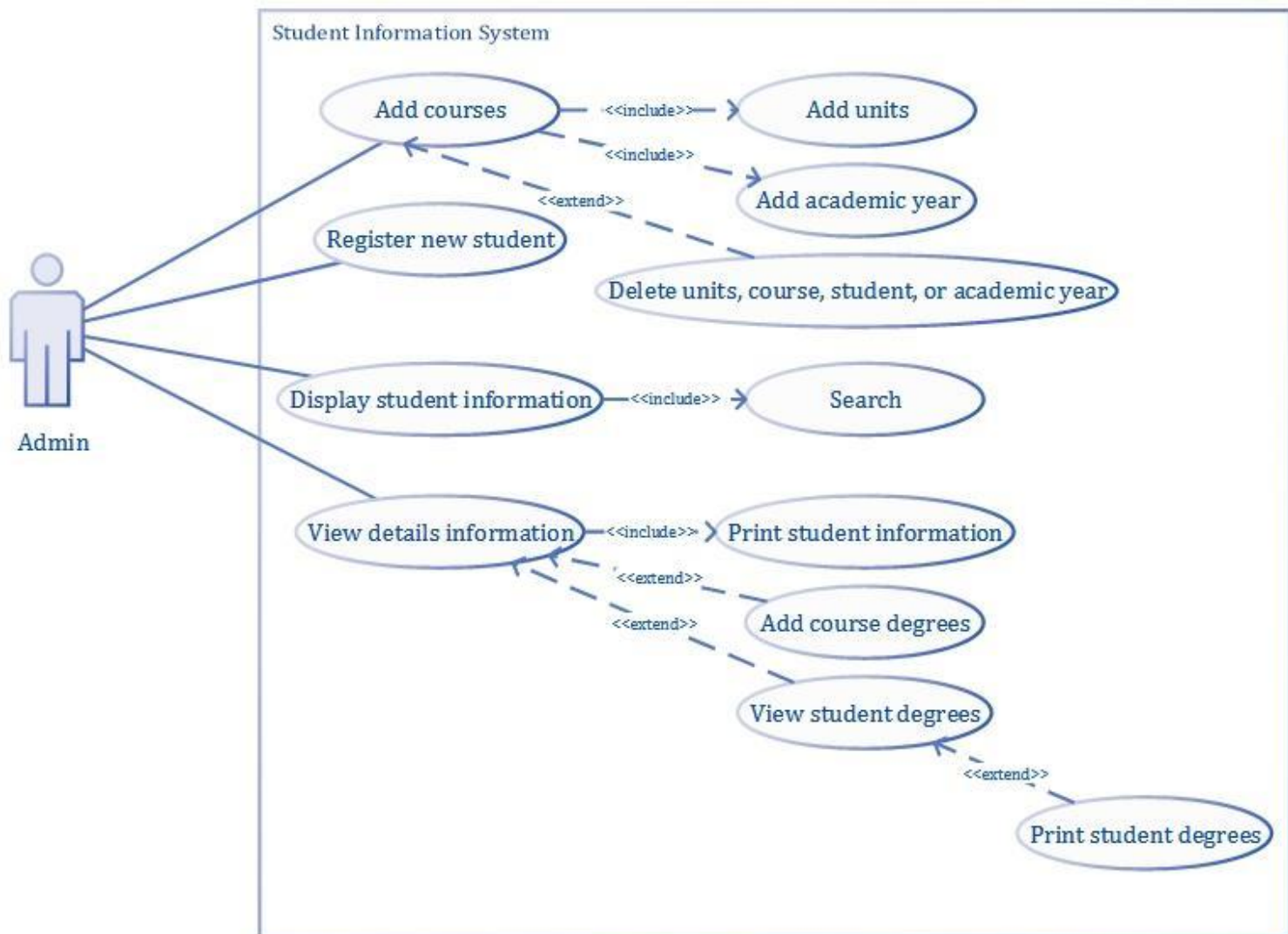


Figure 2.1: Project Design.

2.2 Development

This project improve many place and adding other fixture written below :

- 1) Add students Marksheet.
- 2) Add Password & Update the password.
- 3) Add Result.
- 4) Add Billing System or Payment System .
- 5) Add Teacher Evaluation.

Chapter 3

Performance Evaluation

3.1 Simulation Environment/ Simulation Procedure

- A. Take a student information & adding this student information.
- B. Modified this student information.
- C. Searching the student.
- D. Delete the student information.
- E. Again search the student information & there are no student information.

3.2 Results and Discussions

3.2.1 Results, Analysis & Outcome

```

221 gotoxy(45,8);printf("SRS : %s",st);
222 SetColorAndBackground(17,15);
223
224
225 int conf_record(char id[])
226 {
227     // left for you
228     //it checks whether the entered id for
229     //new record is already in the database.
230 }
231
232 void add_student()
233 {
234     clearWindow();
235     print_heading("Add Record");
236     int print = 37;
237     FILE *fp;
238     fp = fopen("record.txt","ab+");
239     SetColor(45);
240     if(fp == NULL)
241     {
242         MessageBox(0,"Error in Opening file\nMake sure y
243     }
244     else
245     {
246         fflush(stdin);
247         gotoxy(print,10);printf("ID: ");gets(stu.ID);
248         //here you can confirms the ID
249         gotoxy(print,12);printf("Name: ");gets(stu.name);
250         gotoxy(print,14);printf("Address: ");gets(stu.add);
251         gotoxy(print,16);printf("Parent's name: ");gets(stu.parname);
252         gotoxy(print,18);printf("Class: ");scanf("%d",&stu.Class);
253         gotoxy(print,20);printf("Phone Number: ");scanf("%ld",&stu.phone_no);
254         fwrite(&stu, sizeof(stu), 1, fp);
255         gotoxy(40,22); printf("The record is successfully added");
256     }
257     SetColor(28);
258     fclose(fp);
259     return;
260 }
261
262 void search_student()
263 {
264     clearWindow();
265     print_heading("Search Record");
266     SetColor(45);
267     char s_id[15];

```

STUDENT RECORD SYSTEM GREEN UNIVERSITY OF BANGLADESH Estd.: 2003 B.S.	
<ol style="list-style-type: none"> 1. Add Student 2. Search Student 3. Modify Student Record 4. Delete Student Record 5. Exit <p>Enter your choice: 1</p>	<div style="background-color: #f0f0f0; padding: 5px; border: 1px solid #ccc;">SRS : Add Record</div> <p>ID: 213902111</p> <p>Name: MD Sherajul Islam</p> <p>Address: Sirajgonj</p> <p>Parent's name: Showkat</p> <p>Class: 12</p> <p>Phone Number: 01636347820</p> <p style="text-align: center;">The record is sucessfully added</p>

```

299 }
300
301 void mod_student()
302 {
303     clearWindow();
304     print_heading("Modify Record");
305     SetColor(45);
306     char s_id[15];
307     int isFound = 0, print = 37;
308     gotoxy(37,10);printf("Enter ID to Modify: ");fflush(
309     gets(s_id);
310     FILE *fp;
311     fp = fopen("record.txt","rb+");
312     while(fread(&stu, sizeof(stu),1,fp) == 1)
313     {
314         if(strcmp(s_id, stu.ID) == 0)
315         {
316             fflush(stdin);
317             gotoxy(print,12);printf("ID: ");gets(stu.ID);
318             gotoxy(print,13);printf("Name: ");gets(stu.n
319             gotoxy(print,14);printf("Address: ");gets(stu
320             gotoxy(print,15);printf("Parent's name: ");g
321             gotoxy(print,16);printf("Class: ");scanf("%d
322             gotoxy(print,17);printf("Phone Number: ");sc
323             fseek(fp,-sizeof(stu),SEEK_CUR);
324             fwrite(&stu,sizeof(stu), 1, fp);
325             isFound = 1;
326             break;
327         }
328     }
329     if(!isFound)
330     {
331         gotoxy(print, 12);printf("No Record Found");
332     }
333     fclose(fp);
334     SetColor(28);
335     return;
336 }
337
338 void gen_marksheet()
339 {
340     //left for further enhancement
341 }
342
343 void delete_student()
344 {
345     clearWindow();
346     print_heading("Delete Record");

```

STUDENT RECORD SYSTEM GREEN UNIVERSITY OF BANGLADESH Estd.: 2003 B.S.	
<ol style="list-style-type: none"> 1. Add Student 2. Search Student 3. Modify Student Record 4. Delete Student Record 5. Exit <p>Enter your choice: 3</p>	<div style="background-color: #f0f0f0; padding: 5px; border: 1px solid #ccc;">SRS : Modify Record</div> <p>Enter ID to Modify: 213902111</p> <p>ID: 213902116</p> <p>Name: MD Dulal Hossain</p> <p>Address: Ultra 7</p> <p>Parent's name: MD Showkat Ali</p> <p>Class: 13</p> <p>Phone Number: 01786107700</p>

Start here

LAB project.c

LAB PROJECT CODE.c

```

260     return;
261 }
262
263 void search_student()
264 {
265     clearWindow();
266     print_heading("Search Record");
267     SetColor(45);
268     char s_id[15];
269     int isFound = 0;
270     gotoxy(37,10);printf("Enter ID to Search: ");fflush(stdout);
271     gets(s_id);
272     FILE *fp;
273     fp = fopen("record.txt","rb");
274     while(fread(&stu,sizeof(stu),1,fp) == 1)
275     {
276         if(strcmp(s_id,stu.ID) == 0)
277         {
278             isFound = 1;
279             break;
280         }
281     }
282     if(isFound == 1)
283     {
284         gotoxy(37,12);printf("The record is Found");
285         gotoxy(37,14);printf("ID: %s",stu.ID);
286         gotoxy(37,15);printf("Name: %s",stu.name);
287         gotoxy(37,16);printf("Address: %s",stu.add);
288         gotoxy(37,17);printf("Parent's Name: %s",stu.parname);
289         gotoxy(37,18);printf("Class: %d",stu.Class);
290         gotoxy(37,19);printf("Phone No: %ld",stu.phone_no);
291     }
292     else
293     {
294         gotoxy(37,12);printf("Sorry, No record found in the database");
295     }
296     SetColor(28);
297     fclose(fp);
298     return;
299 }
300
301 void mod_student()
302 {
303     clearWindow();
304     print_heading("Modify Record");
305     SetColor(45);
306     char s_id[15];
307     int isFound = 0, print = 37;

```

STUDENT RECORD SYSTEM

GREEN UNIVERSITY OF BANGLADESH

Estd.: 2003 B.S.

1. Add Student

2. Search Student

3. Modify Student Record

4. Delete Student Record

5. Exit

Enter your choice: 2

SRS : Search Record

Enter ID to Search: 213902116

The record is Found

ID: 213902116

Name: MD Dulal Hossain

Address: Uttara 7

Parent's Name: MD Showkat Ali

Class: 13

Phone No: 1786107700


```

341 }
342
343 void delete_student()
344 {
345     clearWindow();
346     print_heading("Delete Record");
347     SetColor(45);
348     char s_id[15];
349     int isFound = 0, print = 37;
350     gotoxy(37,10);printf("Enter ID to Delete : ");fflush
351     gets(s_id);
352     FILE *fp, *temp;
353     fp = fopen("record.txt","rb");
354     temp = fopen("temp.txt", "wb");
355     while(fread(&stu, sizeof(stu),1,fp) == 1)
356     {
357         if(strcmp(s_id, stu.ID) == 0)
358         {
359             fwrite(&stu,sizeof(stu),1,temp);
360         }
361     }
362     fclose(fp);
363     fclose(temp);
364     remove("record.txt");
365     rename("temp.txt","record.txt");
366     gotoxy(37,12);printf("The record is successfully deleted");
367     SetColor(28);
368     return;
369 }
370
371 void main_window()
372 {
373     int choice;
374     SetColor(28);
375     int x = 2;
376     while(1)
377     {
378
379         gotoxy(x,8);printf("1. Add Student");
380         gotoxy(x,10);printf("2. Search Student");
381         gotoxy(x,12);printf("3. Modify Student Record");
382         gotoxy(x,14);printf("4. Delete Student Record ");
383         gotoxy(x,16);printf("5. Exit");
384         //gotoxy(x,18);printf("6. Change password");
385         //gotoxy(x,20);printf("7. Exit");
386         gotoxy(x,20);printf("Enter your choice: ");
387         scanf("%d",&choice);
388         switch(choice)

```

STUDENT RECORD SYSTEM GREEN UNIVERSITY OF BANGLADESH Estd.: 2003 B.S.	
<ol style="list-style-type: none"> 1. Add Student 2. Search Student 3. Modify Student Record 4. Delete Student Record 5. Exit 	<p>SRS : Delete Record</p> <p>Enter ID to Delete : 213902116</p> <p>The record is successfully deleted</p>
Enter your choice: 4	

```

343 void delete_student()
344 {
345     clearWindow();
346     print_heading("Delete Record");
347     SetColor(45);
348     char s_id[15];
349     int isFound = 0, print = 37;
350     gotoxy(37,10);printf("Enter ID to Delete : ");fflush
351     gets(s_id);
352     FILE *fp, *temp;
353     fp = fopen("record.txt","rb");
354     temp = fopen("temp.txt", "wb");
355     while(fread(&stu, sizeof(stu),1,fp) == 1)
356     {
357         if(strcmp(s_id, stu.ID) == 0)
358         {
359             fwrite(&stu,sizeof(stu),1,temp);
360         }
361     }
362     fclose(fp);
363     fclose(temp);
364     remove("record.txt");
365     rename("temp.txt","record.txt");
366     gotoxy(37,12);printf("The record is successfully deleted");
367     SetColor(28);
368     return;
369 }
370
371 void main_window()
372 {
373     int choice;
374     SetColor(28);
375     int x = 2;
376     while(1)
377     {
378
379         gotoxy(x,8);printf("1. Add Student");
380         gotoxy(x,10);printf("2. Search Student");
381         gotoxy(x,12);printf("3. Modify Student Record");
382         gotoxy(x,14);printf("4. Delete Student Record ");
383         gotoxy(x,16);printf("5. Exit");
384         //gotoxy(x,18);printf("6. Change password");
385         //gotoxy(x,20);printf("7. Exit");
386         gotoxy(x,20);printf("Enter your choice: ");
387         scanf("%d",&choice);
388         switch(choice)
389         {
390             case 1:

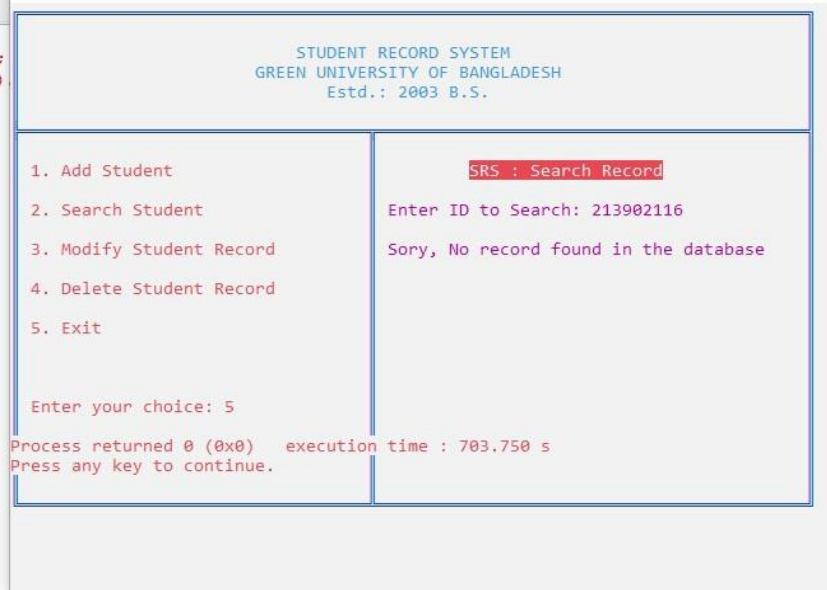
```

STUDENT RECORD SYSTEM GREEN UNIVERSITY OF BANGLADESH Estd.: 2003 B.S.	
<ol style="list-style-type: none"> 1. Add Student 2. Search Student 3. Modify Student Record 4. Delete Student Record 5. Exit 	<p>SRS : Search Record</p> <p>Enter ID to Search: 213902116</p> <p>Sory, No record found in the database</p>
Enter your choice: 2	


```

380 gotoxy(x,10);printf("2. Search Student");
381 gotoxy(x,12);printf("3. Modify Student Record");
382 gotoxy(x,14);printf("4. Delete Student Record ");
383 gotoxy(x,16);printf("5. Exit");
384 //gotoxy(x,18);printf("6. Change password");
385 //gotoxy(x,20);printf("7. Exit");
386 gotoxy(x,20);printf("Enter your choice: ");
387 scanf("%d",&choice);
388 switch(choice)
389 {
390     case 1:
391         add_student();
392         break;
393     case 2:
394         search_student();
395         break;
396     case 3:
397         mod_student();
398         break;
399     case 4:
400         delete_student ();
401         break;
402     case 5:
403         exit(0);
404         break;
405     case 6:
406         break;
407     case 7:
408         //exit(0);
409         break;
410     default:
411         break;
412 }
413
414 }
415
416 }
417

```



Chapter 4

Conclusion

4.1 Introduction

Take some students information and create a c code base on some function and linklist, and other c function. At future convert the code on a application.

4.1 Practical Implications

Our university some friend take information to implications and successfully run.

4.2 Scope of Future Work

This project convert to application and provided the University, College & School management.

References

- [1] Youtub(getoxy & colour function).
- [2] Youtub (Anisul Islam).
- [3] Project photo by codeforewine.com
- [4] Youtub(linklist & switch case).
- [5] Gegforgegcode.com