

Software Development project 1

CSE 100

Group: Overflow – Hidden | Members

Name	ID
Shuvo Dabanath	15163203027
Rejaul Karim	15163203031
Shamsul Alam	15163203032
Md. Al-Amain	15163203048

Project Type

Management System

Project Name

Student Management System

Submitted To

Mr. Amit Kumar Nath
(Lecturer in Department of CSE)



Department of Computer Science and Engineering

BUBT
Committed to Academic Excellence

**BANGLADESH UNIVERSITY OF
BUSINESS AND TECHNOLOGY**

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1. About Project

1.1. Proposed

The following documentation is a project the “Student Management System”. It is a detailed summary of all the drawbacks of the old system and how the new proposed system overcomes these shortcomings. The new system considers the various factors while designing a new system. It keeps into the account the Economical bandwidth available for the new system. The foremost thing that is taken care of is the need and requirements of the user.

1.2. Advantage

- Low Cost of Ownership
- Total Operational Automation
- More Time to focus on Strategic Tasks
- Multiple Campus Management
- One-Time Fee of the System
- Anywhere Availability
- Scalable and Customizable

1.3. Design Objective

- Admin Login
- Program or Department
- Academic Course
- Student Add, Edit, Delete
- Course Enroll
- Student Result & Marksheet
- Student Payment Info Manage
- Student Login
- View Student Info Summery
- View Result & Marksheet
- View Payment Info
- View Total Course

2. Introduction

To overcome the complexity of this environment and to manage its resources with optimal efficiency, Institute management need to have robust and integrated Student Management System for their day to day operation.

Student Management System that covers each entity of Institute like students, faculties and management. The System for education establishments to manage student data.

It provides capabilities for registering students in courses, documenting grading, transcripts, payment, results of student tests and other assessment scores.

3. Admin Panel

3.1. Admin Login Page

```

Admin Login Panel
-----
Enter Email      :   admin@gmail.com
Enter Password   :   admin12
-----
!!! Invalid Email / Password !!!
Try Again ? y / n
  
```

```

if(strcmp(email,"admin@gmail.com")==0 && strcmp(pass,"admin123")==0)
{
    system("CLS");    title();  admin_main_menu();
}
  
```

***** STUDENT MANAGEMENT SYSTEM *****

Admin Dashboard Panel

 1.Program /\ 2.Course /\ 3.Student /\ 4.Course Enroll /\ 5.Result /\ 6.Payment /\ 7.Exit

Press the Number of Menu:

3.2. Program Manage

```

***** STUDENT MANAGEMENT SYSTEM *****

Admin Dashboard Panel
-----

1.Add Program | 2.View Program | 3.Edit Program | 4.Delete Program
-----

5.Main Menu | 6.Exit
-----

Press the Number of Menu: 1

```

3.2.1. Add Program

```

Add Program Info
-----

Program Code: CSE
Program Name: Computer Science and Engineering
-----

Do You Want To Save ? Y / N :

```

3.2.2. View Program

```

View Program Info
-----

* Computer Science And Engineering (CSE)
* Electrical And Electronic Engineering (EEE)
* Computer Science And Information Technology (CSIT)
-----

Press Any Key To Go Back...

```

3.2.3. Edit Program

```

Edit Program Info
-----
Enter Program CODE : CSA
-----
!!! Incorrect Program CODE !!!
Do You Edit Another Program ? Y / N :
  
```

3.2.4. Delete Program

```

Delete Program Info
-----
Enter Program CODE : CSE
-----
Do You Want To Delete ? Y / N :
  
```

3.3. Academic Course Manage

```

***** STUDENT MANAGEMENT SYSTEM *****
Admin Dashboard Panel
-----
1.Add Course | 2.View course | 3.Edit course | 4.Delete course
-----
5.Main Menu | 6.Exit
-----
Press the Number of Menu: 1_
  
```

3.3.1. Add Course

```

Add Course Info
-----
1. Computer Science And Engineering (CSE)
2. Electrical And Electronic Engineering (EEE)
3. Computer Science And Information Technology (CSIT)

Select Program : 1_
  
```

Add Course Info

Program: CSE
Semester No: 3
Course Code: CSE 100
Course Title: Software Development - 1
Credit: .75
Type: Lab

Do You Want To Save ? Y / N :

3.3.2. View Course

View All Course Info

1. Computer Science And Engineering (CSE)
2. Electrical And Electronic Engineering (EEE)
3. Computer Science And Information Technology (CSIT)

Select Program : 1_

View All Course Info					
Course Structure of CSE					
SEM NO	COURSE CODE	CREDIT	TYPE	COURSE TITLE	
1	CSE 102	1.5	Lab	Computer and Programming Concepts	
1	MAT 101	3.0	Theory	Diffrential and Integral Calculas	
1	ENG 101	3.0	Theory	English Language I	
2	CSE 112	1.5	Lab	Structure Programming Language	
2	MAT 111	3.0	Theory	Co Ordinate Geometry and Vector Calculas	
2	ENG 111	3.0	Theory	English Language II	
3	CSE 122	1.5	Lab	Object Oriented Programming Language	
3	MAT 121	3.0	Theory	Linear Algebras and Differential Equations	
3	EEE 101	3.0	Theory	Electronics Technology	
Do You Select Another Program ? Y / N : <input type="checkbox"/>					

3.3.3. Edit Course

```

def edit_course():
    """
    Edit Course Info
    """
    # Display the list of programs
    print("\nEdit Course Info")
    print("-----")
    for i in range(1, len(programs) + 1):
        print(f"{i}. {programs[i-1]}")

    # Get the program to edit
    select_program = input("Select Program : ")

    # Get the course code
    print("\nEnter Course CODE : ")
    course_code = input()

    # Get the course title
    print("\nEnter Course Title : ")
    course_title = input()

    # Get the credit
    print("\nEnter Credit : ")
    credit = input()

    # Get the type
    print("\nEnter Type : ")
    type = input()

    # Update the course
    programs[select_program - 1] = f"{course_code} {course_title} {credit} {type}"

    # Display the updated list
    print("\nUpdated Course List")
    print("-----")
    for i in range(1, len(programs) + 1):
        print(f"{i}. {programs[i-1]}")

    # Ask if the user wants to update
    update = input("Do You Want To Update ? Y / N : ")

    if update == 'Y':
        edit_course()
    else:
        return

```

3.3.4. Delete Course

```

Delete Course Info
-----
1. Computer Science And Engineering (CSE)
2. Electrical And Electronic Engineering (EEE)
3. Computer Science And Information Technology (CSIT)

Select Program : 1

Delete Course Info
-----
Select Course CODE : CSE 102
-----
Do You Want To Delete ? Y / N : █

```

3.4.Student Info Manage

```

***** STUDENT MANAGEMENT SYSTEM *****

Admin Dashboard Panel
-----
1.Add Student | 2.View Student | 3.Edit Student | 4.Delete Student
-----
5.Main Menu | 6.Exit
-----

Press the Number of Menu: 2

```

3.4.1. Add Student

```

***** STUDENT MANAGEMENT SYSTEM *****

Admin Dashboard Panel
-----
1.Add Student | 2.View Student | 3.Edit Student | 4.Delete Student
-----
5.Main Menu | 6.Exit
-----

Press the Number of Menu: 2

```

Add Student Info

Semester Name: Spring 2017

Add Student Info

1. Computer Science And Engineering (CSE)
2. Electrical And Electronic Engineering (EEE)
3. Computer Science And Information Technology (CSIT)

Select Program: 1_

Add Student Info

Semester: Spring 2017

Program: CSE

Student Name: Shamsul Alam Rocky

Shift: Evening

Intake: 24

Section: 1

ID: 32

Do You Want To Save ? Y / N : _

3.4.2. View Student

View All Student Info

1. Computer Science And Engineering (CSE)
2. Electrical And Electronic Engineering (EEE)
3. Computer Science And Information Technology (CSIT)

Select Program: 1

View All Student Info	
1.Course1.png	1.Day addCourse2, 2.Evening addStudent1.png
2.Course2.png	
3.Course3.png	Select Shift: 2
4.Course4.png	
View All Student Info	
5.Course5.png	Available Intake Are : 24 25 26 addStudent1.png
6.Course6.png	Enter Intake: 24
7.Course7.png	
View All Student Info	
8.Course8.png	SESSION : Spring 2017 addStudent1.png
9.Course9.png	PROGRAM : CSE
10.Course10.png	SHIFT : Evening
11.Course11.png	INTAKE : 24
12.Course12.png	SECTION : 1 -> ID : 32 -> NAME : Shamsul Alam Rocky
13.Course13.png	SECTION : 1 -> ID : 31 -> NAME : Rejaul Karim
14.Course14.png	SECTION : 1 -> ID : 48 -> NAME : Md. Al - Amin
15.Course15.png	1. View Another Intake addCourse2.png
16.Course16.png	2. View Another Shift addStudent1.png
17.Course17.png	3. View Another Program
18.Course18.png	4. Go To Menu
19.Course19.png	Select Menu : 3

3.4.3. Edit Student

Edit Student Info	
20.Course20.png	Enter Student ID : 32 addStudent1.png
21.Course21.png	
Edit Student Info	
22.Course22.png	Semester Name: Fall 2017
23.Course23.png	

```

-----
                                Edit Student Info
-----
1. Computer Science And Engineering (CSE)
2. Electrical And Electronic Engineering (EEE)
3. Computer Science And Information Technology (CSIT)

Select Program: 1

```

```

-----
                                Edit Student Info
-----
Semester: Fall 2017
Program: CSE
Student Name: Misal Mahmud
Sift: Day
Intake: 25
Section: 3
ID: 29

-----
Do You Want To Update ? Y / N :

```

3.4.4. Delete Student

```

-----
                                Delete Student Info
-----
Enter Student ID : 32

-----
Do You Want To Delete ? Y / N : _

```

3.5. Course Enrolled for Student

```

***** STUDENT MANAGEMENT SYSTEM *****

Press: 1.Admin Panel | 2.Student | 3.Staff | 4.Parent | 5.Exit
Admin Dashboard Panel
-----
1.Add Enroll | 2.View Enrolled | 3.Edit Enroll | 4.Delete Enroll
-----
5.Main Menu | 6.Exit
-----

Press the Number of Menu: 3
  
```

3.5.1. Add Enroll

```

Add Course Enroll
-----
Semester Name: Summer 2017_
-----

Add Course Enroll
-----
1. Computer Science And Engineering (CSE)
2. Electrical And Electronic Engineering (EEE)
3. Computer Science And Information Technology (CSIT)
Select Program: 1
-----

Add Course Enroll
-----
1.Day          2.Evening
Select Shift: 2_
-----

Add Course Enroll
-----
Available Intake Are : 24 25 26
Select Intake: 24
  
```

Add Course Enroll

Semester Name: Summer 2017

Program: CSE

Shift: Evening

Intake: 24

Semester No: 4

Do You Want To Save ? Y / N : ☐

3.5.2. View Enroll

View Enrolled Course

S/N	SEMESTER	PROGRAM	SHIFT	INTAKE	SEM NO
1	Spring 2017	CSE	Day	27	1
2	Summer 2017	CSE	Day	27	2
3	Fall 2017	CSE	Day	27	3
4	Spring 2017	CSE	Eve	24	1
5	Summer 2017	CSE	Eve	24	2
6	Fall 2017	CSE	Eve	24	3

Select Enrolled To View Course: 4

View Enrolled Course

SEM NO	COURSE CODE	CREDIT	TYPE	COURSE TITLE
1	CSE 102	1.5	Lab	Computer and Programming Concepts
1	MAT 101	3.0	Theory	Diffrential and Integral Calculas
1	ENG 101	3.0	Theory	English Language

Do You View Another Enrolled ? Y / N : ☐

3.5.3. Edit Enroll

Edit Enrolled Course					
S/N	SEMESTER	PROGRAM	SHIFT	INTAKE	SEM NO
1	Spring 2017	CSE	Day	27	1
2	Summer 2017	CSE	Day	27	2
3	Fall 2017	CSE	Day	27	3
4	Spring 2017	CSE	Eve	24	1
5	Summer 2017	CSE	Eve	24	2
6	Fall 2017	CSE	Eve	24	3

Select Enrolled To Edit: 2

Edit Enrolled Course	
Semester Name: Fall 2017	

Edit Enrolled Course	
1. Computer Science And Engineering (CSE)	
2. Electrical And Electronic Engineering (EEE)	
3. Computer Science And Information Technology (CSIT)	
Select Program: 1	

Edit Enrolled Course	
1.Day	2.Evening
Select Shift: 2	

Edit Enrolled Course	
Available Intake Are : 24 25 26	
Select Intake: 25	

Edit Enrolled Course

Semester Name: Fall 2017

Program: CSE

Shift: Evening

Intake: 25

Semester No: 5

Do You Want To Update ? Y / N :

3.5.4. Delete Enroll

Delete Enrolled Course

S/N	SEMESTER	PROGRAM	SHIFT	INTAKE	SEM NO
1	Spring 2017	CSE	Day	27	1
2	Summer 2017	CSE	Day	27	2
3	Fall 2017	CSE	Day	27	3
4	Spring 2017	CSE	Eve	24	1
5	Summer 2017	CSE	Eve	24	2
6	Fall 2017	CSE	Eve	24	3

Select Enrolled To Delete: 1

Do You Want To Delete ? Y / N :

3.6.Student Result Manage

***** STUDENT MANAGEMENT SYSTEM *****

Admin Dashboard Panel

1.Add Results | 2.View Results | 3.View Marksheet | 4.Edit Results

5.Main Menu | 6.Exit

Press the Number of Menu: 4

3.6.1. Add Result

Add Results Info					
S/N	SEMESTER	PROGRAM	SHIFT	INTAKE	SEM NO
1	Spring 2017	CSE	Day	27	1
2	Summer 2017	CSE	Day	27	2
3	Fall 2017	CSE	Day	27	3
4	Spring 2017	CSE	Eve	24	1
5	Summer 2017	CSE	Eve	24	2
6	Fall 2017	CSE	Eve	24	3

Select Enrolled To Add Result: 1

Add Results Info					
Semester: Spring 2017 -> Program: CSE -> Shift: Day -> Intake: 27 -> Sem No: 1					
Student ID : 1					
Course Code : CSE 102					
Mid Mark: 25					
Final Mark: 35					
Out of 30: 24					
Total Mark: 84.0					
Grade Point: 4.00					
Grade: A+					

3.6.2. View Result

View Results Info					
S/N	SEMESTER	PROGRAM	SHIFT	INTAKE	SEM NO
1	Spring 2017	CSE	Day	27	1
2	Summer 2017	CSE	Day	27	2
3	Fall 2017	CSE	Day	27	3
4	Spring 2017	CSE	Eve	24	1
5	Summer 2017	CSE	Eve	24	2
6	Fall 2017	CSE	Eve	24	3

Select Enrolled To View Result: 4

View Results Info

Semester: Spring 2017 -> Program: CSE -> Shift: Evening -> Intake: 24 -> Sem No: 1

Stu ID	CGPA	SGPA	Subject 1	Subject 2	Subject 3
32	3.50	3.50	CSE 102(A+)	MAT 101(B)	ENG 101(A-)
31	3.42	3.42	CSE 102(B)	MAT 101(A+)	ENG 101(B+)
48	3.42	3.42	CSE 102(B+)	MAT 101(A+)	ENG 101(B)

Do You View Another Result ? Y / N :

3.6.3. View Marksheet

View Student Marksheet

S/N	SEMESTER	PROGRAM	SHIFT	INTAKE	SEM NO
1	Spring 2017	CSE	Day	27	1
2	Summer 2017	CSE	Day	27	2
3	Fall 2017	CSE	Day	27	3
4	Spring 2017	CSE	Eve	24	1
5	Summer 2017	CSE	Eve	24	2
6	Fall 2017	CSE	Eve	24	3

Select Enrolled To View Result: 4

Enter Student ID : 32

View Student Marksheet

Semester: Spring 2017 -> Program: CSE -> Shift: Evening -> Intake: 24 -> Sem No: 1

Mark Sheet of Student ID : 32

Course Code	Mid Mark	Final Mark	Out of 30	Total Mark	Grad Point	Grade
CSE 102	25.0	35.0	27.0	87.0	4.00	A+
MAT 101	15.0	25.0	20.0	60.0	3.00	B
ENG 101	20.0	25.0	25.0	70.0	3.50	A-

Do You View Marksheet ? Y / N :

3.6.4. Edit Result

Edit Results Info					
S/N	SEMESTER	PROGRAM	SHIFT	INTAKE	SEM NO
1	Spring 2017	CSE	Day	27	1
2	Summer 2017	CSE	Day	27	2
3	Fall 2017	CSE	Day	27	3
4	Spring 2017	CSE	Eve	24	1
5	Summer 2017	CSE	Eve	24	2
6	Fall 2017	CSE	Eve	24	3

Select Enrolled To Edit Result: 4

Enter Student ID: 32

Edit Results Info

Semester: Spring 2017 -> Program: CSE -> Shift: Evening -> Intake: 24 -> Sem No: 1

Student ID : 32

Course Code : CSE 102

Mid Mark: 20

Final Mark: 30

Out of 30: 25

Total Mark: 75.0

Grade Point: 3.75

Grade: A

Do You Want To Save ? Y / N :

3.7.Student Payment Info Manage

```

***** STUDENT MANAGEMENT SYSTEM *****

Admin Dashboard Panel

1.Add Payment | 2.View Payment | 3.Edit Payment

4.Main Menu | 5.Exit

Press the Number of Menu: 5
  
```

3.7.1. Add Payment

Add Payment Info					
S/N	SEMESTER	PROGRAM	SHIFT	INTAKE	SEM NO
1	Spring 2017	CSE	Day	27	1
2	Summer 2017	CSE	Day	27	2
3	Fall 2017	CSE	Day	27	3
4	Spring 2017	CSE	Eve	24	1
5	Summer 2017	CSE	Eve	24	2
6	Fall 2017	CSE	Eve	24	3

Select Enrolled To Add Payment: 4

Add Payment Info					
Semester: Spring 2017 -> Program: CSE -> Shift: Evening -> Intake: 24 -> Sem No: 1					
<div> <div>Student ID</div> <div>: 32</div> </div> <div> <div>Total Credit</div> <div>: 7.50</div> </div> <div> <div>Per Credit</div> <div>: 1070 tk</div> </div> <div> <div>Per Semester</div> <div>: 7820 tk</div> </div> <div> <div>Total Amount</div> <div>: 15845 tk</div> </div> <div> <div>Pay Amount</div> <div>: 10000</div> </div> <div> <div>Due Amount</div> <div>: 5845 tk</div> </div>					

Do You Want To Save ? Y / N :

3.7.2. View Payment

View Payment Info					
S/N	SEMESTER	PROGRAM	SHIFT	INTAKE	SEM NO
1	Spring 2017	CSE	Day	27	1
2	Summer 2017	CSE	Day	27	2
3	Fall 2017	CSE	Day	27	3
4	Spring 2017	CSE	Eve	24	1
5	Summer 2017	CSE	Eve	24	2
6	Fall 2017	CSE	Eve	24	3

Select Enrolled To View Payment: 4

View Payment Info

Semester: Spring 2017 -> Program: CSE -> Shift: Evening -> Intake: 24 -> Sem No: 1

Total Credit : 7.50
 Per Credit : 1070 tk
 Per Semester : 7820 tk
 Total Amount : 15845 tk

Student ID: 32 || Pay Amount: 15845 || Due Amount: 0

Student ID: 31 || Pay Amount: 10000 || Due Amount: 5845

Do You View Another Payment ? Y / N :

3.7.3. Update Payment

Edit Payment Info

S/N	SEMESTER	PROGRAM	SHIFT	INTAKE	SEM NO
1	Spring 2017	CSE	Day	27	1
2	Summer 2017	CSE	Day	27	2
3	Fall 2017	CSE	Day	27	3
4	Spring 2017	CSE	Eve	24	1
5	Summer 2017	CSE	Eve	24	2
6	Fall 2017	CSE	Eve	24	3

Select Enrolled To Edit Payment: 4

Edit Payment Info

Semester: Spring 2017 -> Program: CSE -> Shift: Evening -> Intake: 24 -> Sem No: 1

Student ID : 32

*** The Payment is Paid ***

Do You Update Another Payment ? Y / N :

```

-----
Edit Payment Info
-----
Semester: Spring 2017 -> Program: CSE -> Shift: Evening -> Intake: 24 -> Sem No: 1
-----
Student ID : 31
Total Amount : 15845
Paid Amount : 10000
Due Amount : 5845
Pay Amount : 5845
Due Amount : 0
-----
Do You Want To Update ? Y / N :

```

4. Student Panel

4.1.Student Login Page

```

-----
Student Login Panel
-----
Enter ID      :   32

Enter Password :   rocky1
-----
!!! Incorrect Password !!!, Try Again ? y / n :

***** STUDENT MANAGEMENT SYSTEM *****

Hi, Shamsul Alam Rocky
-----
1.Summary / 2.Mark Sheet / 3.Payment Info / 4.Total Course / 5.Exit
-----
Press the Number of Menu: 1

```

4.2. View Student Summery

Summary Information	
ID	: 32
Name	: Shamsul Alam Rocky
Intake	: 24
Section	: 1
Shift	: Evening
CGPA	: 3.50
Complete Credit	: 7.50 out of 22.50
Complete Courses	: 3 out of 9

Press Any Key To Go Main Menu...

4.3.View Each Semester Course with Marksheet and Results

View Semester Mark sheet							
Enter Semester Name : spring 2017							

View Semester Mark sheet							
Result of Semester : Spring 2017							
Course Code	Mid Mark	Final Mark	Out of 30	Total Mark	Grad Point	Grade	
CSE 102	25.0	35.0	27.0	87.0	4.00	A+	
MAT 101	15.0	25.0	20.0	60.0	3.00	B	
ENG 101	20.0	25.0	25.0	70.0	3.50	A-	

SGPA : 3.50	GRADE : A-
-------------	------------

Do you want to view another marksheet ? y / n...

4.4.View Total Course in this Department

```

C:\Users\Shamsul Alam Rocky>python3.7\python.exe
Hi, Shamsul Alam Rocky
-----
All Course List Info
-----
STATUS      | SEM NO | COURSE CODE | CREDIT | TYPE | COURSE TITLE
-----
Complete    | 1      | CSE 102     | 1.5    | Lab  | Computer and Programming Concepts
Complete    | 1      | MAT 101     | 3.0    | Theory | Diffrential and Integral Calculas
Complete    | 1      | ENG 101     | 3.0    | Theory | English Language |
Incomplete  | 2      | CSE 112     | 1.5    | Lab  | Structure Programming Language
Incomplete  | 2      | MAT 111     | 3.0    | Theory | Co Ordinate Geometry and Vector Calculas
Incomplete  | 2      | ENG 111     | 3.0    | Theory | English Language ||
Incomplete  | 3      | CSE 122     | 1.5    | Lab  | Object Oriented Programming Language
Incomplete  | 3      | MAT 121     | 3.0    | Theory | Linear Algebras and Differential Equations
Incomplete  | 3      | EEE 101     | 3.0    | Theory | Electronics Technology
-----
Press Any Key To Go Main Menu...
  
```

4.5.View Payment Info

```

C:\Users\Shamsul Alam Rocky>python3.7\python.exe
Hi, Shamsul Alam Rocky
-----
Payment Information
-----
*** Your Payment is Paid ***
-----
Press Any Key To Go Main Menu...

C:\Users\Shamsul Alam Rocky>python3.7\python.exe
Hi, Rejaul Karim
-----
Payment Information
-----
Semester      : Spring 2017
Total Credit   : 7.50
Per Credit    : 1070 tk
Per Semester   : 7820 tk
Total Amount   : 15845 tk
Pay Amount     : 10000 tk
Due Amount     : 5845 tk
-----
Press Any Key To Go Main Menu...
  
```

5. System Requirements

- OS: Windows 7/8/10
- Processor: 1 gigahertz (GHz) or faster processor.
- RAM: 1 gigabyte (GB) for 32-bit or 2 GB for 64-bit
- Graphics card: DirectX 9 or later with WDDM 1.0 driver
- Display: 800x600

6. Statement of the key findings

From this project we learned many things, such as how can we create project in C Language, how to handle FILE in C, how to manage university student information, how to do team work. This project makes for any universities. It works and functioning of University processes extremely easy to save time and cut down the administrative costs and focus on improving student success.

7. Limitations and Future Research

- If student fails in a course then he can't take that course further
- If user input wrong data then software will be error
- No graphical interface uses

8. References

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- https://www.tutorialspoint.com/cprogramming/c_file_io.htm
- <https://stackoverflow.com/questions/3463426/in-c-how-should-i-read-a-text-file-and-print-all-strings>
- <http://www.codeforwin.in/2015/07/c-program-to-delete-element-from-array.html>
- <https://www.programiz.com/c-programming/c-file-input-output>
- <https://www.daniweb.com/programming/software-development/threads/168783/how-how-to-write-a-c-source-code-for-a-login-system>