



Office of the College of Informatics and Computing Sciences

**GUIDANCE COUNSELING: STUDENT INFORMATION SHEET (SIS) &
STUDENT INFORMATION UPDATING FORM (SIUF) SYSTEM**

A Project Implementation thru Console Application using C++ Programming

Language presented to the

College of Informatics and Computing Sciences

Batangas State University - Lipa

In Partial Fulfillment of the Requirements for the

Course: CS-131 Data Structures in Algorithms

By:

Group II

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BSIT-1203

May 2023



**Office of the College of Informatics and Computing Sciences****I. Topic: Guidance Counseling**

The guidance counseling office is a multifaceted field that provides a wide range of services to students within an educational institution. It encompasses various components, including the intake interview (walk-in counseling), exit interview, individual or routine interview, student information sheet (SIS) and student information updating form (SIUF), admission slip, group counseling, certificate of good moral character (CGCMC), and referral for counseling services. Overall, these components work together to provide comprehensive support for students within an educational institution.

II. Title of the Project: Guidance Counseling: Student Information Sheet (SIS) & Student Information Updating Form (SIUF) System**III. Purpose and Description:**

The main purpose of implementing a Student Information Sheet (SIS) & Student Information Updating Form (SIUF) system in guidance counseling is to enhance the effectiveness and efficiency of counseling services. By having a comprehensive and up-to-date record of student information, counselors can gain insights into a student's academic progress. The system aims to collect pertinent details encompassing students' educational background, personal information, family background, motivations, health, and other relevant factors. By implementing this system, the University can ensure the availability of accurate and comprehensive student information, facilitating effective student support services and administrative processes.





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IV. Scope of the Project:

a. User Login

i. Admin Login

The Admin and the authorized personnel have the ability to access and manage the administrative functionalities of the Student Information Sheet (SIS) and Student Information Updating Form (SIUF) system.

Admin Login: The admin can log in using a predefined username and password.

-After successful admin login, the project provides additional functionalities specifically for admins.

ii. Student Login

Students have their own login interface using their designated credentials to access the system and view/update their student information sheet.

Student Login: The student can log in using a predefined username and password.

-After successful student login, the project provides functionalities specifically for students.

b. Transaction

i. Guidance Counseling - Student Information Sheet (SIS) & Student Information Updating Form (SIUF) System.

-This is to manage and monitor all students with or without records and to facilitate the search for important information for the students.

c. Admin Interface

i. Search Student Information: The admin can search for a specific student's information by providing the SR CODE.





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- ii. **Delete Student Information:** The admin can delete either a specific student's information or all the entered student information

d. User Interface

i. Transaction

Add Student Information: The student can enter their information, including their name, SR CODE, course, class, or section, contact information, father's name, age, father's occupation, monthly income, and mother's name, mother's occupation, and monthly income.

View Student Information: The student can view his/her information entered.

Update Student Information: The student can update the information using his/her SR CODE.

ii. View

Login: There is a choice for admin login or student login

Admin: The admin can perform administrative tasks related to managing student information.

Student: Students can access specific features related to their own information or perform limited actions.





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Console App Design

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WELCOME TO GUIDANCE COUNSELING OFFICE SYSTEM
PLEASE LOGIN
1 Admin Login
2 Student Login
3 Exit The Program
Enter Your Choice: 2

LOGIN

Enter username: BSUStudent
Enter password: BSUStudent123

STUDENT INFORMATION SHEET
1. Add Student Information
2. View Student Information
3. Update Student Information
4. Log-Out

Please Enter Your Choice:1
How Many Student Information You Want To Enter:2

Enter the Data of student 1

Enter Name: Ronamae
Enter SR-CODE: 22-37331
Enter Course: BSIT
Enter Class/Section: 1203
Enter Contact: 09213456789
Enter Father's Name: Ronaldo
Age:50
Father's Occupation:Caterer
Monthly Income:5000
Mother's Name:Remy
Enter Age:50
Mother's Occupation:Caterer
Monthly Income:5000

Student Info has been Recorded

Press 1 to Continue
1
```

```
STUDENT INFORMATION SHEET
1. Add Student Information
2. View Student Information
3. Update Student Information
4. Log-Out

Please Enter Your Choice:2

Data of Student 1

Name: Ronamae
SR CODE: 22-37331
Course: BSIT
Class/Section: 1203
Contact: 09213456789
Father's Name: Ronaldo
Age: 50
Occupation: Caterer
Monthly Income: 5000
Mother's Name: Remy
Age: 50
Occupation: Caterer
Monthly Income: 5000

Data of Student 2

Name: Lien
SR CODE: 22-232425
Course: BSIT
Class/Section: 1203
Contact: 0987654321
Father's Name: Ronel
Age: 51
Occupation: None
Monthly Income: 0
Mother's Name: Liezl
Age: 52
Occupation: Teacher
Monthly Income: 20000
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STUDENT INFORMATION SHEET
1. Add Student Information
2. View Student Information
3. Update Student Information
4. Log-Out

Please Enter Your Choice:3
Enter the SR CODE of student which you want to update
22-37331

Previous data

Data of Student: 1
Name: Ronamae
SR CODE: 22-37331
Course: BSIT
Class/Section: 1203
Contact: 09213456789
Father's Name: Ronaldo
Age: 50
Occupation: Caterer
Monthly Income: 5000
Mother's Name: Remy
Age: 50
Occupation: Caterer
Monthly Income: 5000

Enter new data

Enter Name: Ronamae
Enter SR CODE: 22-37331
Enter Course: BSIT
Enter Class/Section: 1204
Enter Contact: 09213605384
Enter Father's Name: Ronaldo
Age: 51
Father's Occupation: Caterer
Monthly Income: 5000
Enter Mother's Name: Remy
Age: 51
Mother's Occupation: None
Monthly Income: 0

Student Info Updated

Press 1 to Continue :1
```





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```
input

*****DSA FINAL PROJECT BY*****
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*****Patron, Kian Marcus*****

| WELCOME TO GUIDANCE COUNSELING OFFICE SYSTEM |
| PLEASE LOGIN |
| 1 Admin Login |
| 2 Student Login |
| 3 Exit The Program |
| Enter Your Choice: 1 |

LOGIN

Enter username: GAdmin
Enter password: GAdmin123

| ADMIN INFORMATION SHEET |
| 1. Search Student Information |
| 2. Delete Student Information |
| 3. Log-Out |

Please Enter Your Choice:1
Enter the SR CODE of student:
22-37331
Name: Ronamae
SR CODE: 22-37331
Course: BSIT
Class/Section: 1203
Contact: 09213456789
Father's Name: Ronaldo
Age: 51
Occupation: Caterer
Monthly Income: 5000
Mother's Name: Remy
Age: 51
Occupation: None
Monthly Income: 0

Press 1 to Continue :1
```

```
| ADMIN INFORMATION SHEET |
| 1. Search Student Information |
| 2. Delete Student Information |
| 3. Log-Out |

Please Enter Your Choice:2
Press 1 to delete all record
Press 2 to delete specific record
2
Enter the SR CODE of student which you wanted to delete
22-37331
Your required record is deleted

Press 1 to Continue :1

| ADMIN INFORMATION SHEET |
| 1. Search Student Information |
| 2. Delete Student Information |
| 3. Log-Out |

Please Enter Your Choice:1
No data is entered

...Program finished with exit code 0
Press ENTER to exit console.
```



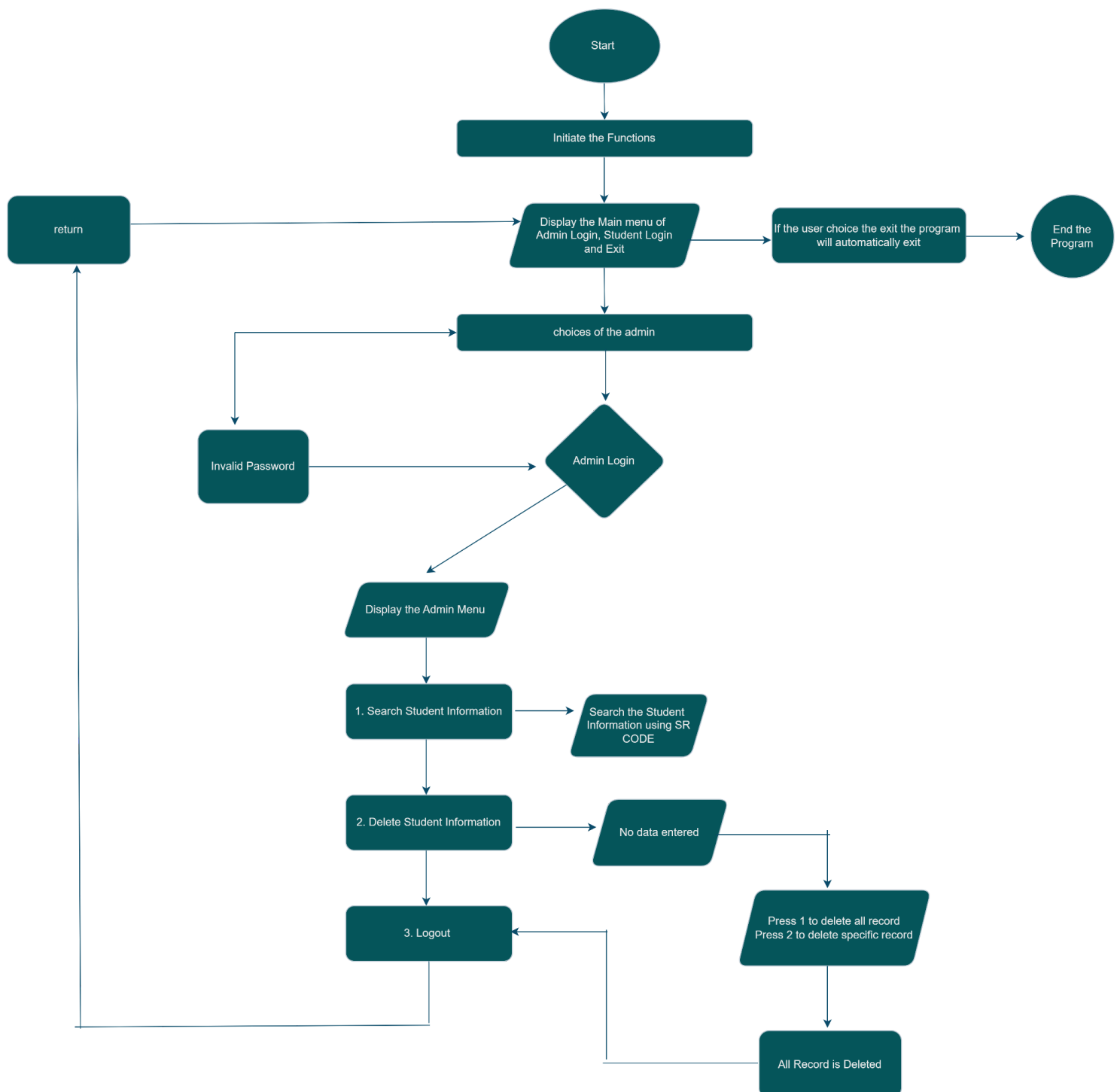


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VI. Flowchart and Procedures

a. Flowchart

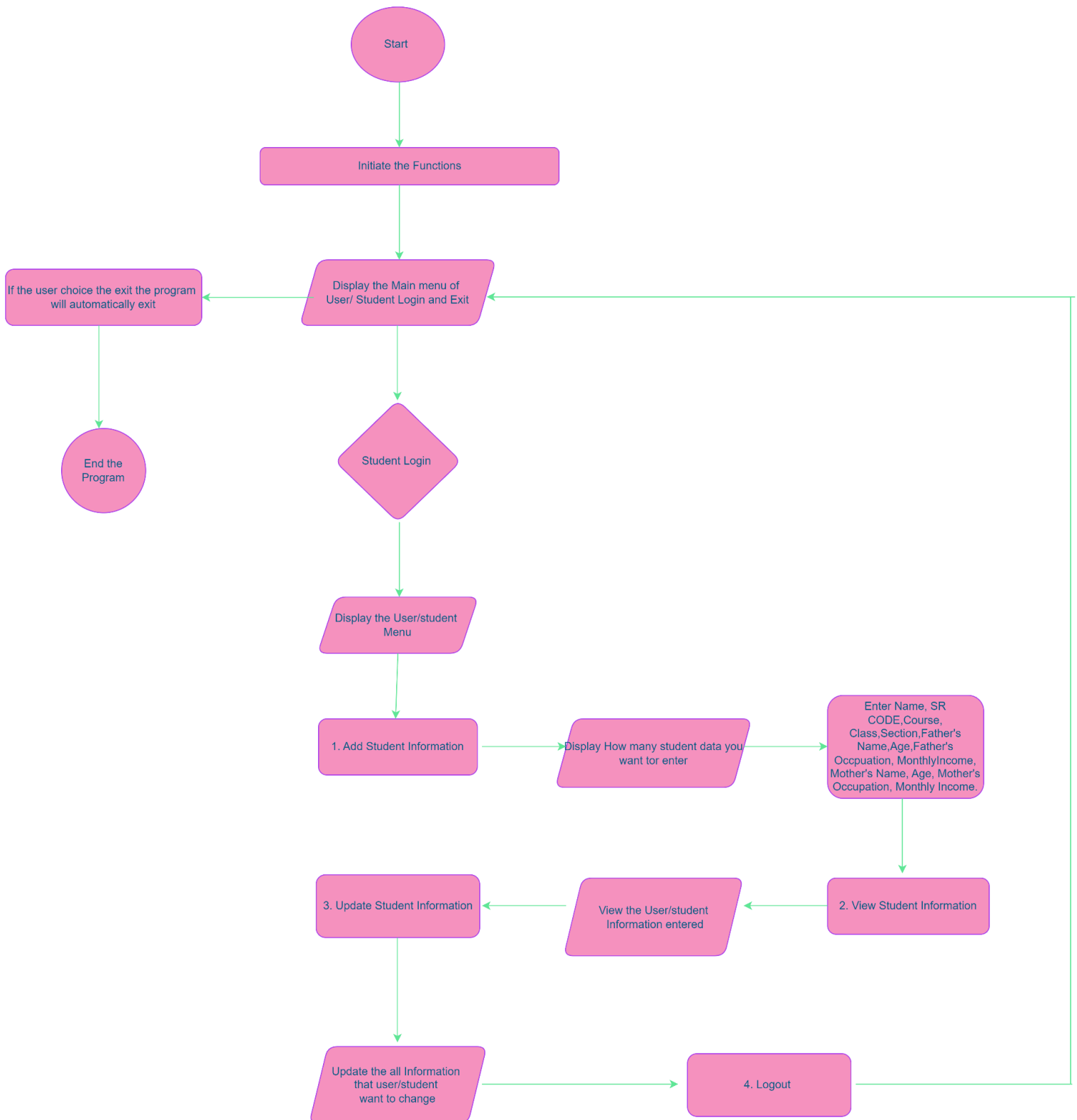
i. Admin





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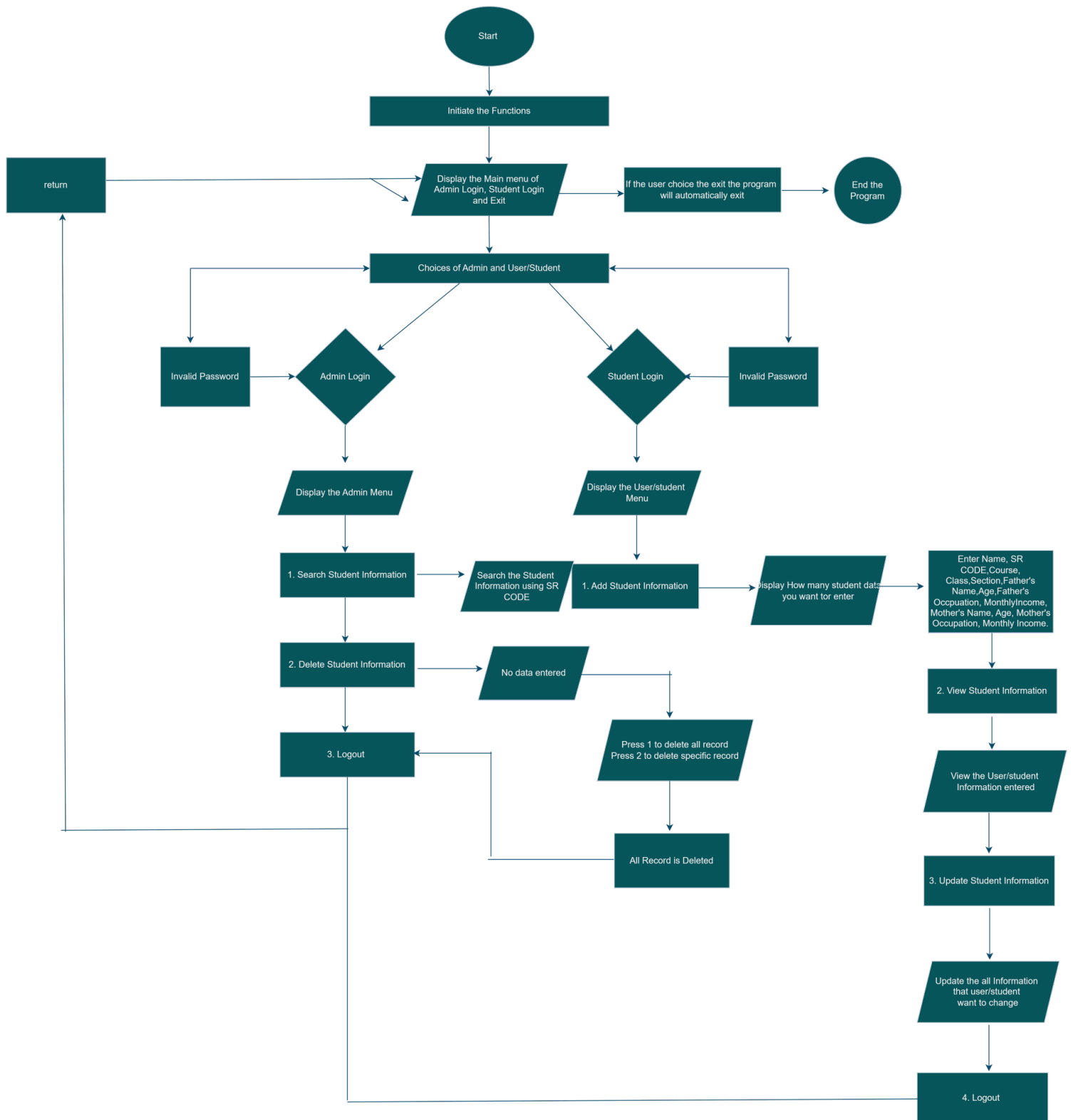
ii. User





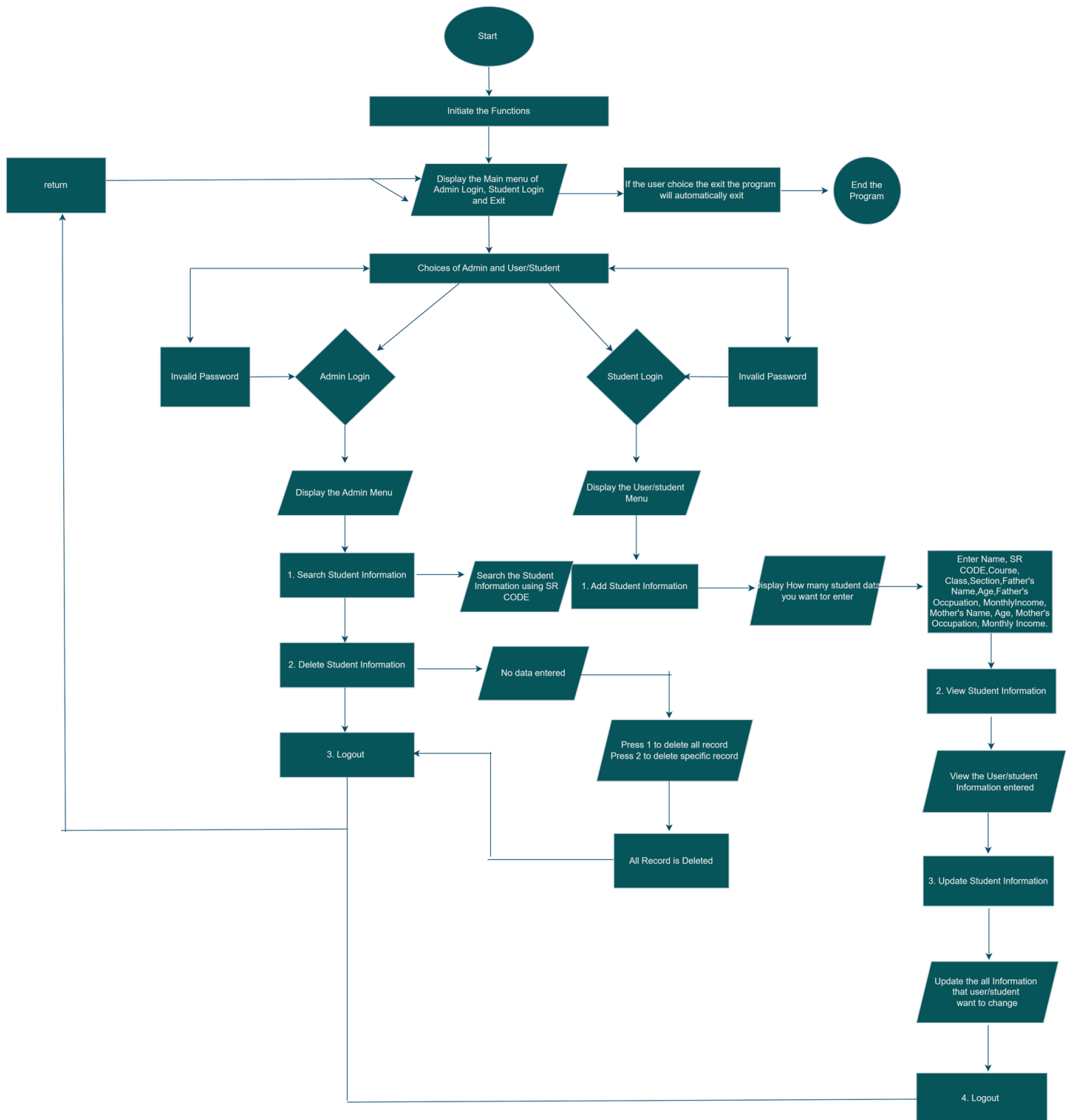
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iii. Transactions





iv. Whole process of the system





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b. Procedures

i. Admin

1. The Admin will login enter their username and password
2. After admin login, the system will display the admin menu with the following options: Search, delete, and logout
 - If the admin choice is Search or Option 1, the admin automatically needs to search the student's SR CODE to search the student's information.
 - If the admin choice is Delete or Option 2, all student's information input will automatically be deleted.

ii. User

1. Prompt the user needs to enter their username and password.
2. The system will verify the username and password entered by the user.
3. If the username and password are correct. The program will display "Login Successful".
4. Display the user/student menu with the following options: Add, View, Update, and Logout.
5. Enter the students' choices.
 - If the user chooses "Add" or "Option 1", automatically the user sees "How Many Data You Want to Enter?" And enter the other information like name, SR CODE, course, class/section, father's name, age, monthly income, and mother's name, age, monthly income.



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- If the user choice is View or Option 2, the user/student automatically views his/her entered information.
- If the user wants to update, the user automatically chooses Update or Option 3, which can update his/her information.

iii. Transaction

1. Start the program.
2. The student needs to login and choose the add option in the student menu.
3. After adding information, the student can view his/her information in the View Student Information option, and the student can update the information in the Update option.
4. After that, the system will show the login display for admins to search for and delete the information that the student entered in the search and delete options.
5. Both admins and users/students need to logout to exit the program.

iv. Whole process of the system

1. Start the program.
2. Declare/ Input the needed variables in the program.
3. Declare other functions for features of the system like login, Menu/Options.
4. Ask the user/Student to login.
5. If the login of the user/student is done. The user sees the Add, View, Update and Logout options.
6. And to admin login the admin can see the search and delete option to search and delete the student information.



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7. And to exit the menu the admin and user/ student will chose the logout option
8. End of the program

Source Code

- a. See the attached cpp file on the Google classroom

