University Library System

15\11\2020

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DESCRIPTION:

In a nut-shell, our Program is intended mostly for the management of the institution; it helps to register students and view them.

Plus, books; as well as searching and reviewing your inventory.

OBJECTS:

1. Keyboard buttons. (For Input)

Preview and Interactions:

The user has to register by entering his name, email, ID and password.

```c
void student_Register(){

    printf ("Registration form: \n ");

    printf ("\nEnter your ID (Integers): ");
    scanf ("%d", & information.ID[information.studentNum]);
    printf ("\nEnter your name : ");
    scanf ("%s", & information.name[information.studentNum]);
    printf ("\nEnter your email : ");
    scanf ("%s" , & information.email[information.studentNum]);
    printf ("\nEnter your password : ");
    scanf ("%s" , & information.password[information.studentNum]);
    information.studentNum++;


}
```

You can know the number of existed students

```c
void Students_Number(){

//  for(int i = 0 ; i < 20 ; i++ ){
//      if( information.password[i] != NULL ){
//          StudentsNumber++;
//      }
//  }
    printf("\nNumber of students registered in the system is %d students.",information.studentNum);
}
```

You can add and view books

```c
void bookAdding(){

    printf ("IMPROT YOUR BOOK\n");
    printf ("Enter book's name : ");
    scanf ("%s" , &book.bookname[book.bookNum]);
    printf("\nEnter book's ID (Integer): ");
    scanf ("%d" , &book.bookId[book.bookNum]);
    book.bookNum++;

}



void Book_Viewer(){

for (int k = 0; k < book.bookNum; ++k){
        printf("%s", book.bookname[k]);
    printf("\n");
    }

}
```

You can search for a book

```c
void Book_Search(){
    int found = 0;
    char bookName[50];
    printf("\nEnter the name of the book you want : ");
    scanf("%s" ,&bookName);

    for(int i = 0 ; i < book.bookNum ; i++){
      int result = strcmp(bookName,book.bookname[i]);
      if( result == 0){
        found = 1;
        break;
      }
    }
    if ( found == 0 ){
        printf("\nNOT FOUND...");
    }else{
        printf("\nThis book exists in the library...\n");
    }
```
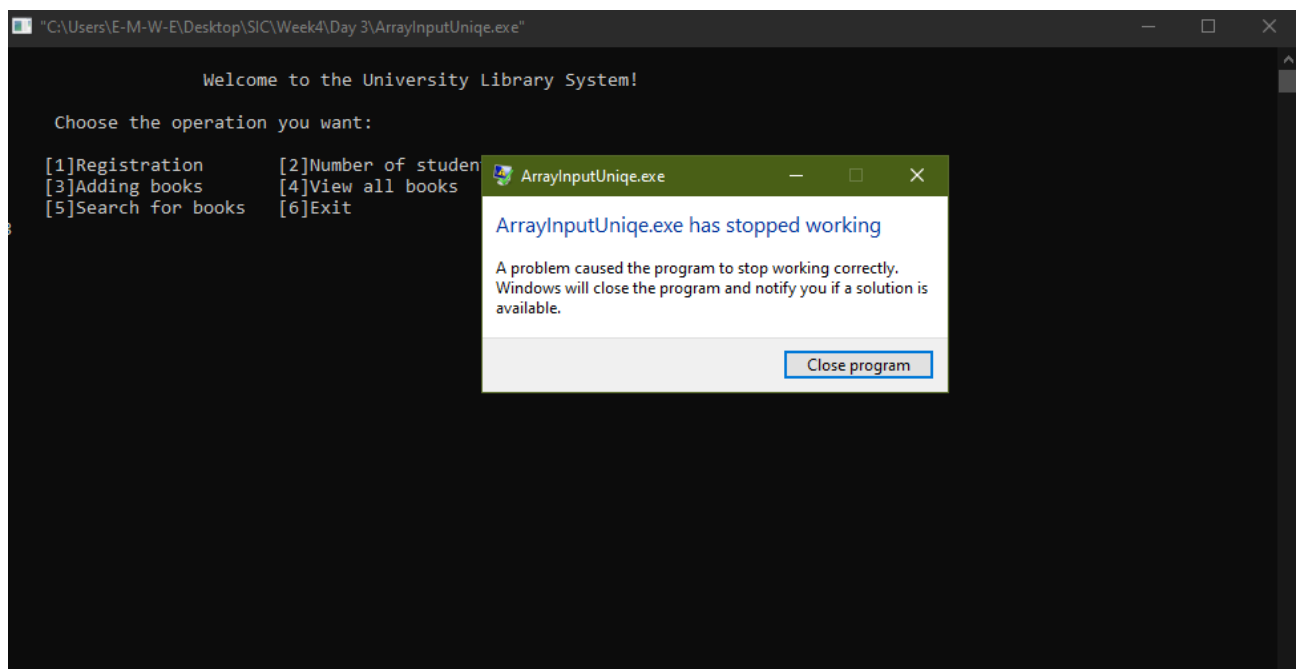
Interactions:

Depends on your choice of operation, the interaction of the program shall change, for example if you choose to register a student, additional data will be required.

On the other-hand viewing books won't ask for any data instead will output the book inventory.

Problems:

1. There was an open loop which kept printing "menu".

2. Managing the 2D array.

3. The garbage numbers in "book ID".

FEATURE PLANS:

➢ To add GUI libraries.

➢ Make the user able to add audio, video and written material.

```
C:\Users\E-M-W-E\Desktop\SIC\Week4\Project\University_Library_System.exe                    —    □    ×

                    Welcome to the University Library System!

      Choose the operation you want:

      [1]Registration        [2]Number of students
      [3]Adding books        [4]View all books
      [5]Search for books    [6]Clear screen
      [7]Exit
1
Registration...
Registration form:

Enter your ID (Integers): 12301

Enter your name : ahmed

Enter your email : ahmed.3we

Enter your password : qwedsazxcv

                    Welcome to the University Library System!

      Choose the operation you want:

      [1]Registration        [2]Number of students
      [3]Adding books        [4]View all books
      [5]Search for books    [6]Clear screen
      [7]Exit
2
```

```
C:\Users\E-M-W-E\Desktop\SIC\Week4\Project\University_Library_System.exe                    —    □    ×

                    Welcome to the University Library System!

      Choose the operation you want:

      [1]Registration        [2]Number of students
      [3]Adding books        [4]View all books
      [5]Search for books    [6]Clear screen
      [7]Exit
2
Number of students...

Number of students registered in the system is 1 students.
                    Welcome to the University Library System!

      Choose the operation you want:

      [1]Registration        [2]Number of students
      [3]Adding books        [4]View all books
      [5]Search for books    [6]Clear screen
      [7]Exit
3
Adding books...
IMPROT YOUR BOOK
Enter book's name :
cpp

Enter book's ID (Integer): 231

                    Welcome to the University Library System!
```

```
C:\Users\E-M-W-E\Desktop\SIC\Week4\Project\University_Library_System.exe                    —    □    ×
                    Welcome to the University Library System!

      Choose the operation you want:

      [1]Registration        [2]Number of students
      [3]Adding books        [4]View all books
      [5]Search for books    [6]Clear screen
      [7]Exit
4
View all books...
cpp

                    Welcome to the University Library System!

      Choose the operation you want:

      [1]Registration        [2]Number of students
      [3]Adding books        [4]View all books
      [5]Search for books    [6]Clear screen
      [7]Exit
5
Search for books..

Enter the name of the book you want : cpp

This book exists in the library...

                    Welcome to the University Library System!

      Choose the operation you want:
```

How the program shall work...