

OOP PROJECT



Name : RIN Moni

Group : PT SD 15

Project Title : Student Grade Management

Programing language : C++

PROJECT() { STUDENT MANAGEMENT SYSTEM };

- **Project Descriptions:**

The Student Management System project was developed in the C++ programming language. This system is built on the idea of keeping and creating all of the students' records. This application also includes a simple database of students for a school where the user may enter student information safely and conveniently. This system makes it simple for teachers to keep track of each student's progress. Furthermore, change and delete the information. This mini-project is also simple to use and comprehend for users.

About Project	Project Details
Project Name :	Student Grade Management
Programming Language Used:	C++ Programming Language
Programming Concept :	Object-Oriented Programming
Project Type :	Console Desktop Application
Data Storage (File or Database):	Stores data in .DAT file
Source Code (GitHub) :	https://github.com/monikhoder/Student-Grade-Management.git

- **Application Modules**

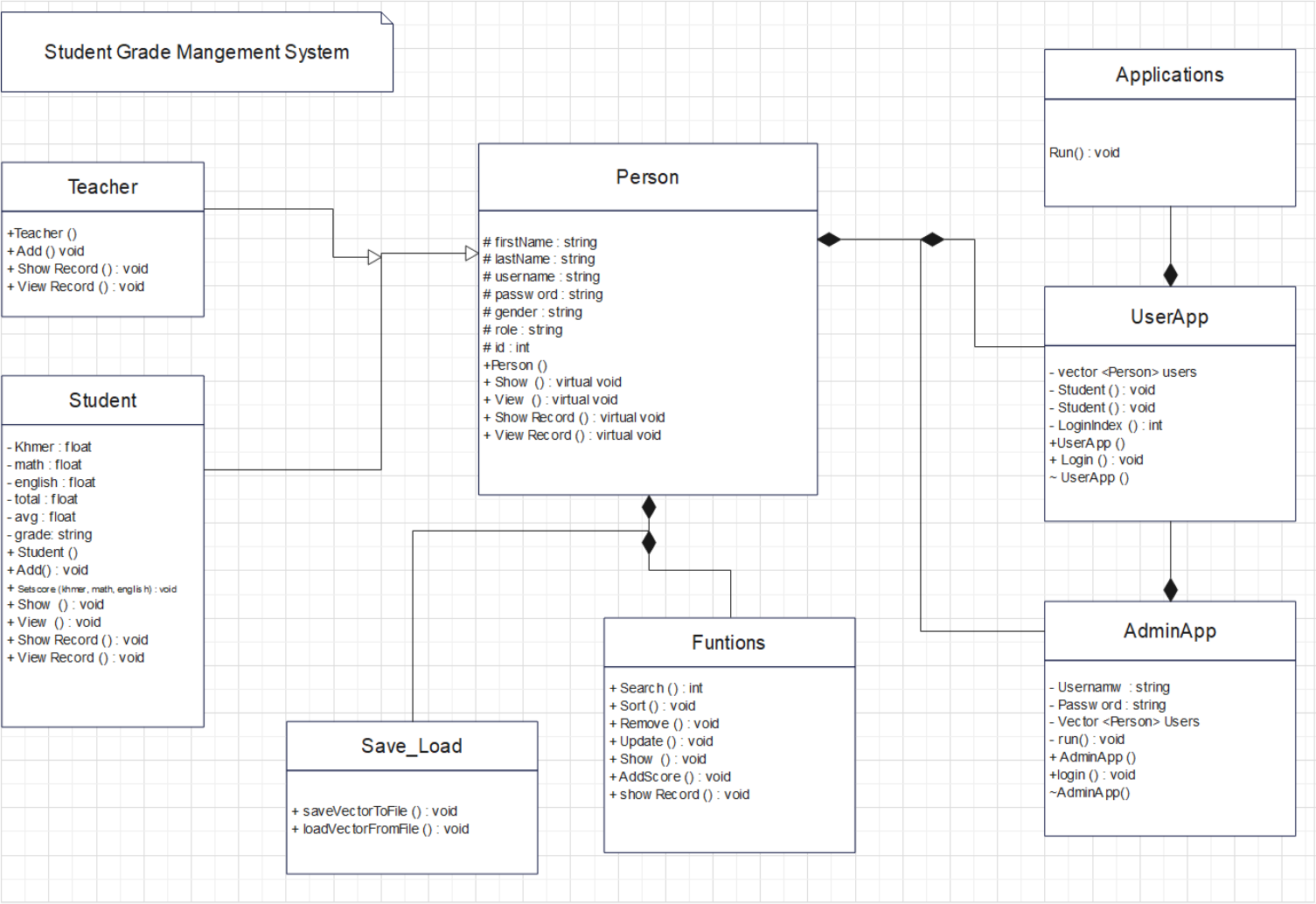
1. Student login
2. Teacher log in
3. Admin log in

- **User Features**

1. Student
 1. View Info
 2. View Record
 3. Change username
 4. Modify password
2. Teacher
 1. Add student record
 2. Search student
 3. Update student record
 4. View student record
 5. Change username
 6. Modify password
3. Admin
 1. Add student account
 2. Add teacher account
 3. Search user
 4. Sort user list
 5. View user list
 6. Update user account
 7. Remove user account
 8. Save
 9. Load

• Project Design

1. Logical Design



2. Physical Design

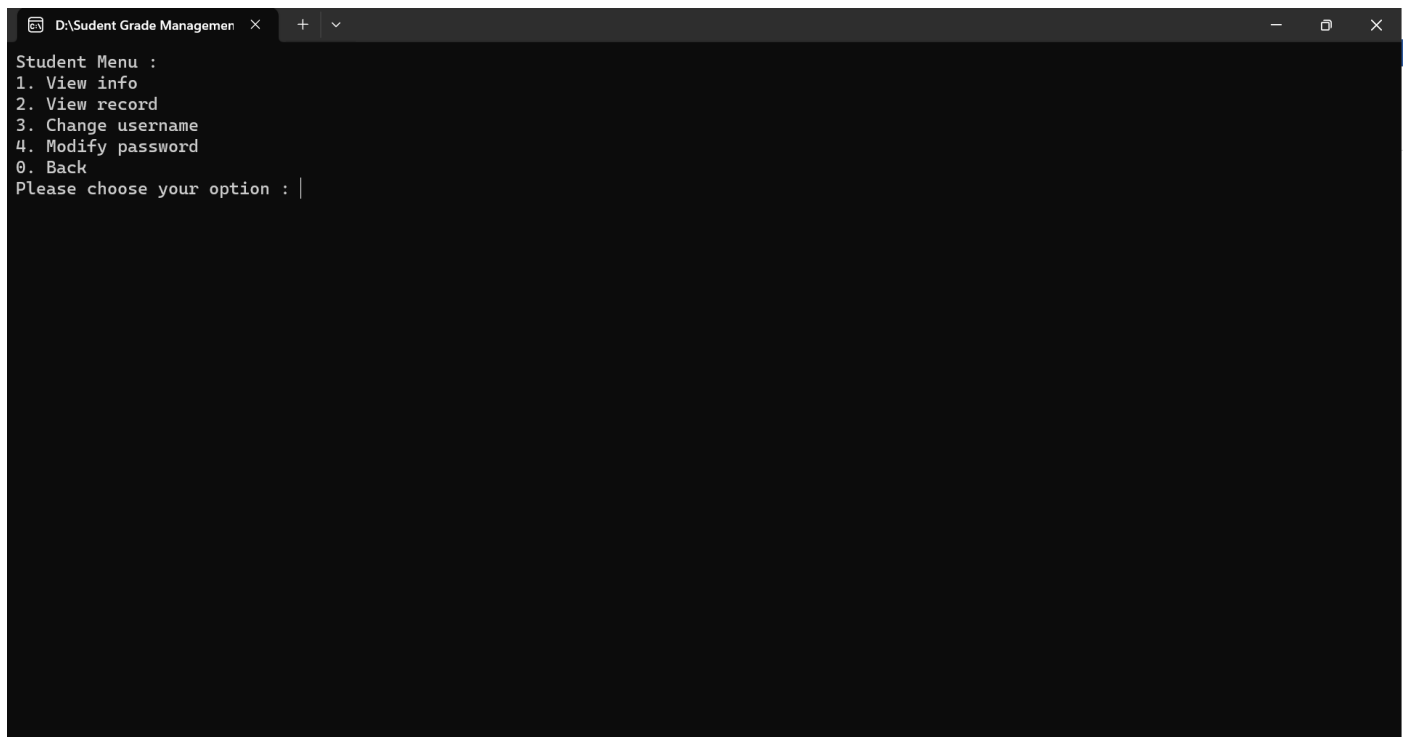
Main Login :

```
D:\Sudent Grade Managemen  x + v
=====
*****Welcom to Student Mangement System*****
=====
1. Login
2. Login as admin
0. Exit
Please choose your option : 2
Enter username: admin
Enter password: 123
Wrong username or password
Press any key to continue . . . |
```

Admin Menu :

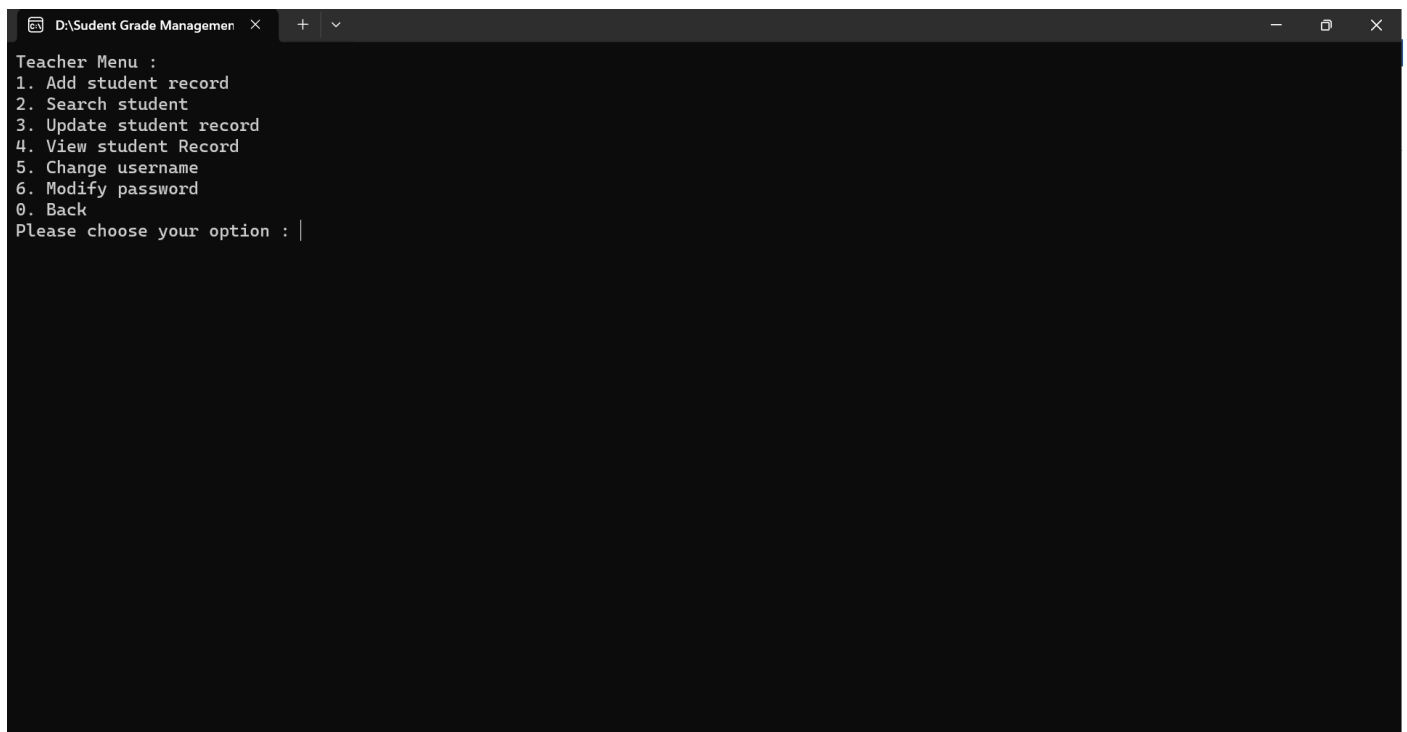
```
D:\Sudent Grade Managemen  x + v
Admin Menu :
1. Add Student account
2. Add Teacher account
3. Search user
4. Sort user list
5. View user list
6. Update user account
7. Remove user account
8. Save
9. Load
0. Back
Please choose your option : |
```

Student Menu :



```
D:\Sudent Grade Managemen x + v - [icon] x
Student Menu :
1. View info
2. View record
3. Change username
4. Modify password
0. Back
Please choose your option : |
```

Teacher Menu :



```
D:\Sudent Grade Managemen x + v - [icon] x
Teacher Menu :
1. Add student record
2. Search student
3. Update student record
4. View student Record
5. Change username
6. Modify password
0. Back
Please choose your option : |
```

Add User :

```
D:\Sudent Grade Managemen x + v
Admin Menu :
1. Add Student account
2. Add Teacher account
3. Search user
4. Sort user list
5. View user list
6. Update user account
7. Remove user account
8. Save
9. Load
0. Back
Please choose your option : 1
*****Add Student account*****
Enter first name: CHANN
Enter last name: Tola
Enter gender (1 =Male / 2 = Female) : 1
Student account has been added by :
Username: St1008
Password: 123
Press any key to continue . . . |
```

View User List :

```
D:\Sudent Grade Managemen x + v
Admin Menu :
1. Add Student account
2. Add Teacher account
3. Search user
4. Sort user list
5. View user list
6. Update user account
7. Remove user account
8. Save
9. Load
0. Back
Please choose your option : 5
*****View user list*****


| No | ID   | FirstName/LastName | Gender | Role    |
|----|------|--------------------|--------|---------|
| 1  | 1000 | rin moni           | Male   | Student |
| 2  | 1001 | rin moni           | Male   | Teacher |
| 3  | 1002 | Chan Tola          | Male   | Student |
| 4  | 1003 | Meas kiri          | Male   | Teacher |
| 5  | 1004 | Long Chan          | Male   | Teacher |
| 6  | 1008 | CHANN Tola         | Male   | Student |


Press any key to continue . . . |
```

Sort User List :

```
D:\Sudent Grade Managemen  X + v
Admin Menu :
1. Add Student account
2. Add Teacher account
3. Search user
4. Sort user list
5. View user list
6. Update user account
7. Remove user account
8. Save
9. Load
0. Back
Please choose your option : 4
*****Sort user list*****
1. Sort by ID
2. Sort by Name
Please choose your option : 2
User list has been sorted
Press any key to continue . . . |
```

Add Student Record :

```
D:\Sudent Grade Managemen  X + v
Teacher Menu :
1. Add student record
2. Search student
3. Update student record
4. View student Record
5. Change username
6. Modify password
0. Back
Please choose your option : 1
=====Add student record=====
1. Search by ID
2. Search by Name
Please choose your option : 1
Enter ID : 1000
Enter Khmer score :101
Max score is 100 : 100
Enter Math score :99
Enter English score :80
Student record has been added
Press any key to continue . . . |
```


View Student Record :

```
D:\Sudent Grade Managemen  X + v
Teacher Menu :
1. Add student record
2. Search student
3. Update student record
4. View student Record
5. Change username
6. Modify password
0. Back
Please choose your option : 4
=====View student record=====
No      ID      FirstName/LastName  Khmer  Math  English  Total  Avg  Grade
1       1000      rin      moni    100    99     80     279   93   A
3       1002      Chan     Tola    0      0      0      0     0   N/A
Press any key to continue . . . |
```

Modify Username :

```
D:\Sudent Grade Managemen  X + v
Teacher Menu :
1. Add student record
2. Search student
3. Update student record
4. View student Record
5. Change username
6. Modify password
0. Back
Please choose your option : 5
=====Modify username=====
Enter new username : ChanTola
Press any key to continue . . . |
```


Modify Password :

```
D:\Sudent Grade Managemen x + v
Teacher Menu :
1. Add student record
2. Search student
3. Update student record
4. View student Record
5. Change username
6. Modify password
0. Back
Please choose your option : 6
=====Modify password=====
Enter old password : 123
Enter new password : tola123
Press any key to continue . . . |
```

View own Record :

```
D:\Sudent Grade Managemen x + v
Student Menu :
1. View info
2. View record
3. Change username
4. Modify password
0. Back
Please choose your option : 2
=====View Record=====
Khmer : 100
Math : 99
English : 80
Total : 279
Average : 93
Grade : A
Press any key to continue . . . |
```