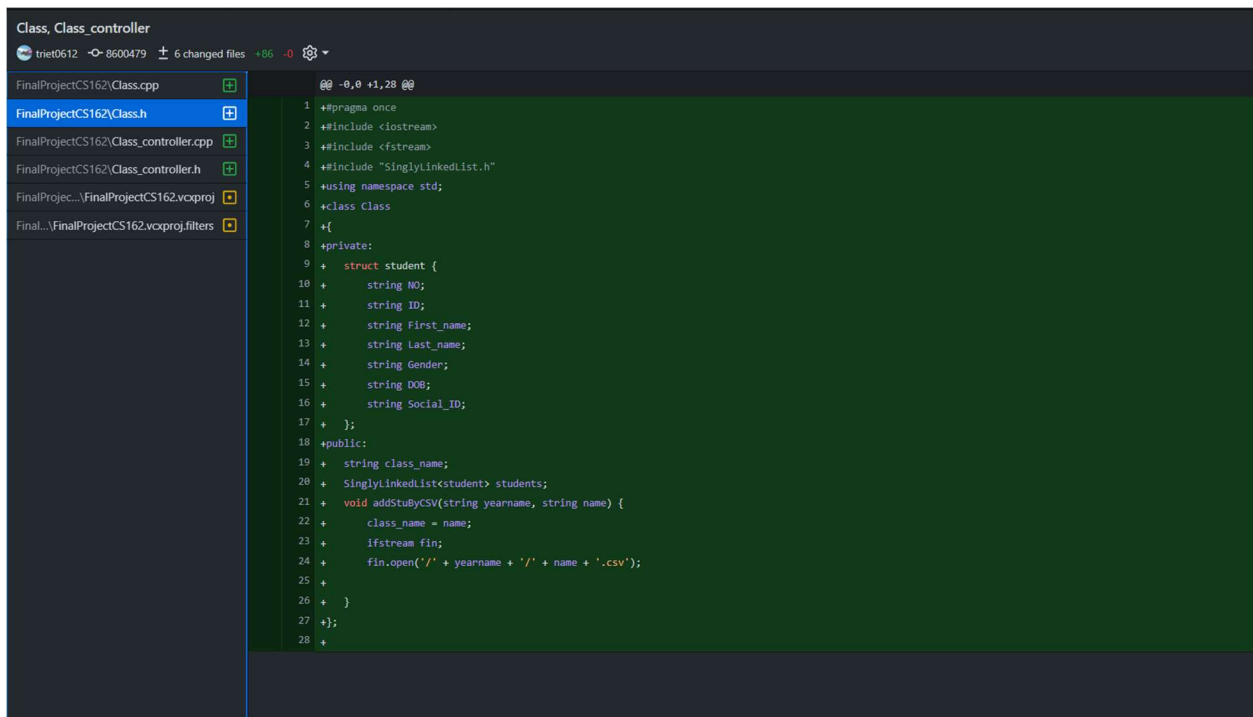21CTT1

21125096 - Đặng Minh Triết

Project Report

The task given is implement Class and Class_controller classes. The classes are used to create and view classes. The classes can also be used to add students to the class and view the students. Class is the parent class for Class_controller. The start date of the task is Mar 14 and completed on Mar 15. There changes made on Mar 16. Total work time is hard to calculate but I work and double check them every day from Mar 14 to Mar 16. The commit is shown in the picture below.

triet0612   8600479   6 changed files   +86   -0

```
@@ -0,0 +1,40 @@
 1  +#pragma once
 2  +#include <iostream>
 3  +#include <string>
 4  +#include <fstream>
 5  +#include "Class.h"
 6  +#include "SinglyLinkedList.h"
 7  +class Class_controller: public Class
 8  +{
 9  +public:
10  +    string yearname;
11  +    SinglyLinkedList<Class> Classes;
12  +    void createClass(string year) {
13  +        SinglyLinkedList<string> classes_list;
14  +        yearname = year;
15  +        ofstream fout;
16  +        fout.open('/' + year + "/class.txt");
17  +        string class_name;
18  +        cout << "Please input the classes you want to create one per each line" << endl;
19  +        cout << "Enter 'stop' after finishing input" << endl;
20  +        cin >> class_name;
21  +        while (class_name != "stop") {
22  +            classes_list.push_back(class_name);
23  +            cin >> class_name;
24  +        }
25  +        cout << "Thank you for input, now add your students csv in the folder" << endl;
26  +        cout << "Press any key to continue after you add the students" << endl;
27  +        system("pause");
28  +        for (auto i : classes_list) {
29  +            Class c;
30  +            c.addStuByCSV();
31  +        }
```

FinalProjectCS162\Class.cpp
FinalProjectCS162\Class.h
FinalProjectCS162\Class_controller.cpp
FinalProjectCS162\Class_controller.h
FinalProjec...\FinalProjectCS162.vcxproj
Final...\FinalProjectCS162.vcxproj.filters

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triet0612   b4adbd8   7 changed files   +78   -6

Update on Class, class controller
Create Semester, semester controller

Data\2020-2021\semesters.txt
FinalProjectCS162\Class.h
FinalProjectCS162\Class_controller.h
FinalProject...\Semester_controller.cpp
FinalProjectCS...\Semester_controller.h
FinalProjectCS162\semester.cpp
FinalProjectCS162\semester.h

```
@@ -1,6 +1,7 @@
 1   1   #pragma once
 2   2   #include <iostream>
 3   3   #include <fstream>
     4  +#include <string>
 4   5   #include "SinglyLinkedList.h"
 5   6   using namespace std;
 6   7   class Class
@@ -21,8 +22,17 @@ public:
21  22       void addStuByCSV(string yearname, string name) {
22  23           class_name = name;
23  24           ifstream fin;
24       -       fin.open('/' + yearname + '/' + name + '.csv');
25       -
         25  +       fin.open('/' + yearname + '/' + name + ".csv", ios::in);
         26  +       student temp;
         27  +       while (getline(fin, temp.NO, ',')) {
         28  +           getline(fin, temp.ID, ',');
         29  +           getline(fin, temp.First_name, ',');
         30  +           getline(fin, temp.Last_name, ',');
         31  +           getline(fin, temp.Gender, ',');
         32  +           getline(fin, temp.DOB, ',');
         33  +           getline(fin, temp.Social_ID, ',');
         34  +           students.push_back(temp);
         35  +       }
26  36           }
27  37   };
28  38
```

Update on Class, class controller
Create Semester, semester controller

Data\2020-2021\semesters.txt ⊞		
FinalProjectCS162\Class.h ▣		
FinalProjectCS162\Class_controller.h ▣		
FinalProject...\Semester_controller.cpp ⊞		
FinalProjectCS...\Semester_controller.h ⊞		
FinalProjectCS162\semester.cpp ⊞		
FinalProjectCS162\semester.h ⊞		

```cpp
 6    6      #include "SinglyLinkedList.h"
 7       -class Class_controller: public Class
      7   +class Class_controller
 8    8      {
 9    9      public:
10   10          string yearname;
@@ -12,8 +12,10 @@ public:
12   12          void createClass(string year) {
13   13              SinglyLinkedList<string> classes_list;
14   14              yearname = year;
     15   +
15   16              ofstream fout;
16   17              fout.open('/' + year + "/class.txt");
     18   +
17   19              string class_name;
18   20              cout << "Please input the classes you want to create one per each line" << endl;
19   21              cout << "Enter 'stop' after finishing input" << endl;
@@ -23,16 +25,40 @@ public:
23   25                  cin >> class_name;
24   26              }
25   27              cout << "Thank you for input, now add your students csv in the folder" << endl;
     28   +
26   29              cout << "Press any key to continue after you add the students" << endl;
27   30              system("pause");
28       -        for (auto i : classes_list) {
29       -            Class c;
30       -            c.addStuByCSV();
     31   +        Load_Classes();
     32   +        cout << "You've completed creating classes" << endl;
     33   +        return;
```