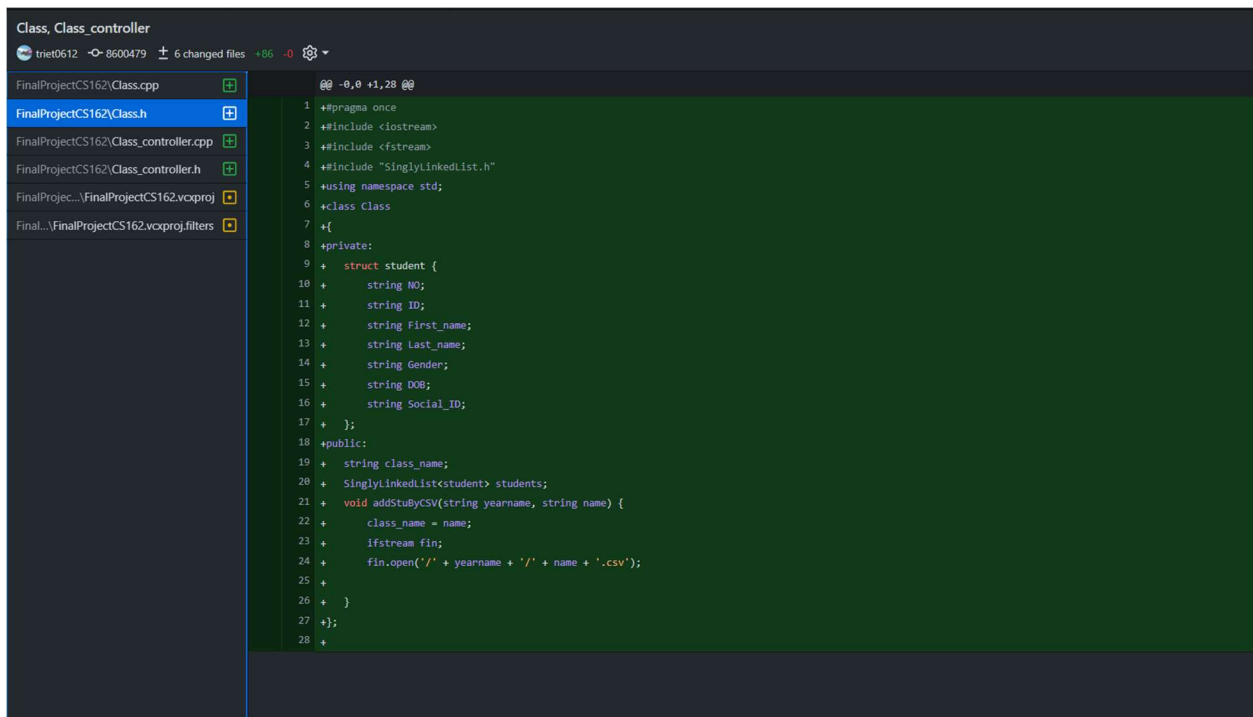


21CTT1

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.



The screenshot shows a code editor with a file explorer on the left and a code editor on the right. The file explorer shows the following files:

- FinalProjectCS162\Class.cpp
- FinalProjectCS162\Class.h
- FinalProjectCS162\Class_controller.cpp
- FinalProjectCS162\Class_controller.h
- FinalProject...FinalProjectCS162.vcxproj
- Final...FinalProjectCS162.vcxproj.filters

The code editor shows the implementation of the Class and Class_controller classes. The code is as follows:

```
1  @@ -0,0 +1,28 @@
2  + #pragma once
3  + #include <iostream>
4  + #include <fstream>
5  + #include "SinglyLinkedList.h"
6  + using namespace std;
7  + class Class
8  + {
9  + private:
10 +     struct student {
11 +         string NO;
12 +         string ID;
13 +         string First_name;
14 +         string Last_name;
15 +         string Gender;
16 +         string DOB;
17 +         string Social_ID;
18 +     };
19 + public:
20 +     string class_name;
21 +     SinglyLinkedList<student> students;
22 +     void addStuByCSV(string yearname, string name) {
23 +         class_name = name;
24 +         ifstream fin;
25 +         fin.open('/' + yearname + '/' + name + '.csv');
26 +     }
27 + };
28 +
```

Class, Class_controller

triet0612 8600479 6 changed files +86 -0

FinalProjectCS162\Class.cpp

FinalProjectCS162\Class.h

FinalProjectCS162\Class_controller.cpp

FinalProjectCS162\Class_controller.h

FinalProjectCS162\vcxproj

FinalProjectCS162\vcxproj.filters

@@ -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 + }
32 + }

Class_Semester_update

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

FinalProjectCS162\Semester_controller.cpp

FinalProjectCS162\Semester_controller.h

FinalProjectCS162\semester.cpp

FinalProjectCS162\semester.h

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

Class_Semester_update

triet0612 b4adbd8 ± 7 changed files +78 -6

Update on Class, class controller
Create Semester, semester controller

File	Line	Code
Data\2020-2021\semesters.txt	6	#include "SinglyLinkedList.h"
FinalProjectCS162\Class.h	7	-class Class_controller: public Class
FinalProjectCS162\Class_controller.h	7	+class Class_controller
FinalProject...\Semester_controller.cpp	8	{
FinalProjectCS...\Semester_controller.h	9	public:
FinalProjectCS162\semester.cpp	10	string yearname;
FinalProjectCS162\semester.h	12	@@ -12,8 +12,10 @@ public:
	13	void createClass(string year) {
	14	SinglyLinkedList<string> classes_list;
	15	yearname = year;
	16	+
	17	ofstream fout;
	18	fout.open('/' + year + "/class.txt");
	19	+
	20	string class_name;
	21	cout << "Please input the classes you want to create one per each line" << endl;
	22	cout << "Enter 'stop' after finishing input" << endl;
	23	@@ -23,16 +25,40 @@ public:
	24	cin >> class_name;
	25	}
	26	cout << "Thank you for input, now add your students csv in the folder" << endl;
	27	+
	28	cout << "Press any key to continue after you add the students" << endl;
	29	system("pause");
	30	for (auto i : classes_list) {
	31	Class c;
	32	c.addStudyCSV();
	33	Load_Classes();
	34	cout << "You've completed creating classes" << endl;
	35	return;