

Header file

```
1 #ifndef OHMYLIB_HPP
2 # define OHMYLIB_HPP
3 # include <iostream>
4 # include <fstream>
5 # include <string>
6 # include <cstring>
7 # include <ctime>
8
9 #ifdef _WIN32
10 # define clear()    system("cls")
11 #else
12 # define clear()    system("clear")
13 #endif
14
15 using namespace std;
16
17 class display
18 {
19     public:
20         void    show_logo(void);
21         void    admin_menu(void);
22         void    patient_menu(void);
23         void    header(string str);
24         int     select_main_menu(void);
25 };
26
27 class records: public display
28 {
29     public:
30         string user = "";
31         string data = "";
32         string date = "";
33         string fullname = "";
34
35     public:
36         int login(void);
37         int login(string pass);
38         int show_records(void);
39         int show_records(string username);
40 };
41
42 class patient: public records
43 {
44     public:
45         string *patient_name = &fullname;
46 };
47
48 class admin: public records
49 {
50     public:
51         string patient_name;
52         string password;
53
54     public:
55         void    add_records(void);
56         int     remove_records(void);
57 };
58
59 int     check_name(string text);
60 string  get_date(void);
61 string  color(string str, unsigned char color);
62
63 #endif
64
```

Ft_util

```
1  #include "../includes/ohmylib.hpp"
2
3  string get_date(void)
4  {
5      string date = "";
6      time_t init_time = time(0);
7
8      tm *time_now = localtime(&init_time);
9      date += to_string(time_now->tm_mday) + "/" \
10 + to_string(time_now->tm_mon) + "/" \
11 + to_string(time_now->tm_year + 1900) + " " \
12 + to_string(time_now->tm_hour) + ":" \
13 if (time_now->tm_min < 10)
14     date += "0" + to_string(time_now->tm_min);
15 else
16     date += to_string(time_now->tm_min);
17     return (date);
18 }
19
20 int check_name(string text)
21 {
22     size_t i;
23
24     i = 0;
25     while (text[i])
26     {
27         if (!isalpha(text[i]))
28             return (0);
29         i++;
30     }
31     return (1);
32 }
33
34 string color(string str, unsigned char color)
35 {
36     return ("\x1b[38;5;" + to_string(color) + "m" + str + "\e[0m");
37 }
38
```

Class_admin

```
1  #include "../includes/ohmylib.hpp"
2
3  void admin::add_records(void)
4  {
5      clear();
6      header("Add Records");
7      cout << endl;
8      string name, surname, buff;
9
10     date = get_date();
11     do
12     {
13         cout << "Enter Patient name: ";
14         cin >> name;
15         if (name.length() < 3)
16             cout << color("Your name must more than 3 Alphabet\n", 198);
17         else if (!check_name(name))
18             cout << color("Your name must be Alphabet only! \n", 198);
19     } while (name.find(",") != (size_t) -1 || name.length() < 3 || !check_name(name));
20
21     do
22     {
23         cout << "Enter Patient surname: ";
24         cin >> surname;
25         if (surname.length() < 3)
26             cout << color("Your surname must more than 3 Alphabet!\n", 198);
27         else if (!check_name(surname))
28             cout << color("Your surname must be Alphabet only! \n", 198);
29     } while (surname.find(",") != (size_t) -1 || surname.length() < 3 || !check_name(surname));
30
31     fullname = name + " " + surname;
32
33     cout << "Enter patient details: ";
34     getline(cin, data);
35     getline(cin, data);
36
37     rename("records.txt", "old_records.txt");
38     ifstream old_file("old_records.txt");
39     ofstream new_file("records.txt");
40     while (getline(old_file, buff))
41         new_file << buff << endl;
42     new_file << fullname << "," << date << "," << data << endl;
43     old_file.close();
44     new_file.close();
45     remove("old_records.txt");
46     cout << endl;
47     cout << color("Add Records complete!\nPress Enter to continue...\n", 49);
48     (void) getchar();
49 }
50
51 int admin::remove_records(void)
52 {
53     int state = 0;
54     size_t count = 0, i, space_size = 1;
55     string buff, input;
56
57     ifstream old_file("records.txt");
58
59     clear();
60     header("Remove Records");
61     cout << endl;
62
63     while (getline (old_file, buff))
64         count++;
65     old_file.close();
66
67     if (count == 0)
68     {
69         cout << color("No Records file!\n\n", 198);
70         cout << color("Press Enter to continue...\n", 49);
71         (void) getchar();
72         (void) getchar();
73         return (0);
74     }
75 }
```


Class_display

```
1 #include "../includes/ohmylib.hpp"
2
3 int display::select_main_menu(void)
4 {
5     string choice;
6
7     header("Main Menu");
8     cout << endl;
9     cout << "[1] login as admin\n";
10    cout << "[2] login as patient\n";
11    cout << "[3] exit\n";
12    cout << endl;
13    do
14    {
15        cout << color("Please enter your choice: ", 220);
16        cin >> choice;
17        if (choice != "1" && choice != "2" && choice != "3")
18            cout << color("Error! Please Enter 1-3 only\n", 198);
19    } while (choice != "1" && choice != "2" && choice != "3");
20
21    if (choice == "1")
22        return (1);
23    else if (choice == "2")
24        return (2);
25    else if (choice == "3")
26        exit(0);
27    else
28        return (0);
29 }
30
31 void display::admin_menu(void)
32 {
33     admin me;
34     string choice;
35
36     clear();
37     header("Admin login page");
38     cout << endl;
39     cout << "Enter username: ";
40     cin >> me.user;
41     cout << "Enter password: ";
42     cin >> me.password;
43
44     if (!me.login(me.password))
45     {
46         cout << color("Error! Please try again!\n\n", 198);
47         cout << "Press Enter to continue...\n";
48         (void) getchar();
49         (void) getchar();
50         clear();
51     }
52     else
53     {
54         cout << color("login Successfully!\n", 43);
55         system("sleep 1");
56         while (1)
57         {
58             clear();
59             header("admin menu");
60             cout << endl;
61             cout << "[1] add records\n";
62             cout << "[2] load all records\n";
63             cout << "[3] load user records\n";
64             cout << "[4] delete records\n";
65             cout << "[5] back to main menu\n";
66             cout << "[6] exit\n";
67             cout << endl;
68             do
69             {
70                 cout << "Please Enter Choice: ";
71                 cin >> choice;
72                 if (choice != "1" && choice != "2" && choice != "3" &&
73                     choice != "4" && choice != "5" && choice != "6")
74                     cout << color("Error! Please Enter 1-6 only\n");
75             } while (choice != "1" && choice != "2" && choice != "3" &&
76                 choice != "4" && choice != "5" && choice != "6");
77
78             if (choice == "1")
79                 me.add_records();
80             else if (choice == "2")
81                 me.show_records();
82             else if (choice == "3")
83             {
84                 clear();
85                 header("user records");
86                 cout << endl;
87                 string name, surname;
88                 do
89                 {
90                     cout << "Enter Patient name: ";
91                     cin >> name;
92                     if (name.length() < 3)
93                         cout << color("Your name must more than 3 Alphabet\n", 198);
94                     else if (!check_name(name))
95                         cout << color("Your name must be Alphabet only! \n", 198);
96                 } while (name.find(",") != (size_t) -1 || name.length() < 3 || !check_name(name));
97
98                 do
99                 {
100                     cout << "Enter Patient surname: ";
101                     cin >> surname;
102                     if (surname.length() < 3)
103                         cout << color("Your surname must more than 3 Alphabet!\n", 198);
104                     else if (!check_name(surname))
105                         cout << color("Your surname must be Alphabet only! \n", 198);
106                 } while (surname.find(",") != (size_t) -1 || surname.length() < 3 || !check_name(surname));
107
108                 me.fullname = name + " " + surname;
109                 if (!me.login())
110                 {
111                     cout << color("Error! User not found!\n\n", 198);
112                     cout << "Press Enter to continue...\n";
113                     (void) getchar();
114                     (void) getchar();
115                 }
116                 else
117                     me.show_records(me.fullname);
118             }
119             else if (choice == "4")
120                 me.remove_records();
121             else if (choice == "5")
122             {
123                 clear();
124                 break;
125             }
126             else
127                 exit(0);
128         }
129     }
130 }
131
132 }
```

[illegible]

Class_records

```
1 #include "../includes/ohmylib.hpp"
2
3 int records::login(void)
4 {
5     string raw_data, name;
6     fstream file("records.txt");
7     while (getline (file, raw_data))
8     {
9         raw_data = raw_data.substr(0, raw_data.length() - 1);
10        name = raw_data.substr(0, raw_data.find(","));
11        raw_data = raw_data.substr(raw_data.find(",") + 1, raw_data.length());
12        date = raw_data.substr(0, raw_data.find(","));
13        raw_data = raw_data.substr(raw_data.find(",") + 1, raw_data.length());
14        data = raw_data.substr(0, raw_data.find(","));
15        if (name == fullname)
16        {
17            file.close();
18            return (1);
19        }
20    }
21    file.close();
22    return (0);
23 }
24
25 int records::login(string pwd)
26 {
27     string raw_data, username, pass;
28     fstream file("admin.txt");
29     while (getline (file, raw_data))
30     {
31         username = raw_data.substr(0, raw_data.find(","));
32         pass = raw_data.substr(raw_data.find(",") + 1, raw_data.length());
33         if (username == user && pwd == pass)
34         {
35             file.close();
36             return (1);
37         }
38     }
39    file.close();
40    return (0);
41 }
42
43 int records::show_records(void)
44 {
45     size_t count = 0, space_size = 1;
46     string raw_data;
47     fstream file("records.txt");
48     clear();
49     header("all records");
50     cout << endl;
51
52     while (getline (file, raw_data))
53     {
54         count++;
55         file.close();
56
57         if (count == 0)
58         {
59             cout << color("No Records file!\n\n", 198);
60             cout << color("Press Enter to continue...\n", 49);
61             (void) getchar();
62             (void) getchar();
63             return (0);
64         }
65     }
```



```

66 file.open("records.txt");
67 cout << "Name\t\t\t\tdate\t\t\tdetails\n";
68 while (getline (file, raw_data))
69 {
70     fullname = raw_data.substr(0, raw_data.find(","));
71
72     raw_data = raw_data.substr(raw_data.find(",") + 1, raw_data.length());
73     date = raw_data.substr(0, raw_data.find(","));
74
75     raw_data = raw_data.substr(raw_data.find(",") + 1, raw_data.length());
76     data = raw_data.substr(0, raw_data.find(","));
77
78     if (fullname.length() < 32)
79         space_size = 32 - fullname.length();
80
81     cout << fullname;
82
83     for (size_t i = 0; i < space_size; i++)
84         cout << " ";
85
86     cout << date;
87     if (date.length() < 16)
88         cout << "\t\t";
89     else
90         cout << "\t";
91     cout << data << endl;
92 }
93 file.close();
94 cout << endl;
95 cout << color("Press Enter to continue...\n", 49);
96 (void) getchar();
97 (void) getchar();
98 return (1);
99 }
100 int records::show_records(string username)
101 {
102     size_t space_size = 0;
103     string raw_data, fullname, space;
104     fstream file("records.txt");
105
106     clear();
107     header(username + "'s Records");
108     cout << endl;
109     cout << "Name\t\t\t\tdate\t\t\tdetails\n";
110     while (getline (file, raw_data))
111     {
112         fullname = raw_data.substr(0, raw_data.find(","));
113
114         raw_data = raw_data.substr(raw_data.find(",") + 1, raw_data.length());
115         date = raw_data.substr(0, raw_data.find(","));
116
117         raw_data = raw_data.substr(raw_data.find(",") + 1, raw_data.length());
118         data = raw_data.substr(0, raw_data.find(","));
119
120         if (fullname == username)
121         {
122             if (fullname.length() < 32)
123                 space_size = 32 - fullname.length();
124
125             cout << fullname;
126
127             for (size_t i = 0; i < space_size; i++)
128                 cout << " ";
129
130             cout << date;
131             if (date.length() < 16)
132                 cout << "\t\t";
133             else
134                 cout << "\t";
135             cout << data << endl;
136         }
137     }
138     cout << endl;
139     file.close();
140     cout << color("Press Enter to continue...\n", 49);
141     (void) getchar();
142     (void) getchar();
143     return (1);
144 }
145

```


Main

```
1  #include "../includes/ohmylib.hpp"
2
3  int main(void)
4  {
5      display mydisplay;
6
7      clear();
8      mydisplay.show_logo();
9      while (1)
10     {
11         int role = 0;
12
13         role = mydisplay.select_main_menu();
14         if (role == 1)
15             mydisplay.admin_menu();
16         else if (role == 2)
17             mydisplay.patient_menu();
18     }
19 }
20
```

ตัวอย่างผลรัน

```
#####
#                                                                    #
#                               Main Menu                               #
#                                                                    #
#####

[1] login as admin
[2] login as patient
[3] exit

Please enter your choice: |
```

```
#####
#                                                                    #
#                               Admin login page                       #
#                                                                    #
#####

Enter username: admin
Enter password: password|
```

```
#####
#                                                                    #
#                               admin menu                             #
#                                                                    #
#####

[1] add records
[2] load all records
[3] load user records
[4] delete records
[5] back to main menu
[6] exit

Please Enter Choice: |
```

```
#####
#
#                               Add Records                               #
#
#####

Enter Patient name: tapakorn
Enter Patient surname: aimaugorn
Enter patient details: headache|
```

```
#####
#
#                               all records                               #
#
#####

Name                                date                                details
tapakorn aimaugorn                 17/2/2022 22:45                 headache
sathaporn thongbaiprasit          17/2/2022 22:46                 stomach ache

Press Enter to continue...
|
```

```
#####
#
#                               user records                             #
#
#####

Enter Patient name: tapakorn
Enter Patient surname: aimaugorn|
```

```
#####
#
#               tapakorn aimaugorn's Records
#
#####

Name                date                details
tapakorn aimaugorn  17/2/2022  22:45      headache

Press Enter to continue...
|
```

```
#####
#
#               Remove Records
#
#####

index  Name                date                details
[1]    tapakorn aimaugorn  17/2/2022  22:45      headache
[2]    sathaporn thongbaiprasit  17/2/2022  22:46      stomach ache

Enter index of data to delete or Enter q to exit: 1

Remove Records complete!
Press Enter to continue...
|
```

```
#####
#
#               Patient login page
#
#####

Enter Patient name: sathaporn
Enter Patient surname: thongbaiprasit|
```

```
#####
#
#                               Patient menu
#
#####

[1] show your records
[2] back to main menu
[3] exit

Please Enter Choice: |
```

```
#####
#
#                               sathaporn thongbaiprasit's Records
#
#####

Name                               date                               details
sathaporn thongbaiprasit          17/2/2022 22:46                  stomach ache

Press Enter to continue...
|
```

```
#####
#
#                               Main Menu
#
#####

[1] login as admin
[2] login as patient
[3] exit

Please enter your choice: 3

----- FINISH -----

tapakorn hospital_record_cpp $ |
```

```
#####  
#                                                                 #  
#                               Admin login page                    #  
#                                                                 #  
#####  
  
Enter username: admin  
Enter password: asdf123  
Error! Please try again!  
  
Press Enter to continue...  
|
```

```
#####  
#                                                                 #  
#                               user records                        #  
#                                                                 #  
#####  
  
Enter Patient name: naphat  
Enter Patient surname: jira  
Error! User not found!  
  
Press Enter to continue...  
|
```

```
#####  
#                                                                 #  
#                               Add Records                        #  
#                                                                 #  
#####  
  
Enter Patient name: tapako1n  
Your name must be Alphabet only!  
Enter Patient name: tapakorn  
Enter Patient surname: aim#augsorn  
Your surname must be Alphabet only!  
Enter Patient surname: aimaugsorn  
Enter patient details: covid-19  
  
Add Records complete!  
Press Enter to continue...  
|
```

```
#####
#
#                               user records
#
#####

Enter Patient name: naphat
Enter Patient surname: ggg
Error! User not found!

Press Enter to continue...
|
```

```
#####
#
#                               Remove Records
#
#####

index   Name                               date                               details
[1]     sathaporn thongbaiprasit         17/2/2022 22:46                   stomach ache
[2]     tapakorn aimaugsorn              17/2/2022 23:02                   covid-19

Enter index of data to delete or Enter q to exit: 3
data not found! Enter index only!
Enter index of data to delete or Enter q to exit: 9
data not found! Enter index only!
Enter index of data to delete or Enter q to exit: -1
data not found! Enter index only!
Enter index of data to delete or Enter q to exit: 0
data not found! Enter index only!
Enter index of data to delete or Enter q to exit: a
data not found! Enter index only!
Enter index of data to delete or Enter q to exit: #
data not found! Enter index only!
Enter index of data to delete or Enter q to exit: |
```



```
#####  
#                                                                 #  
#                               Patient login page                #  
#                                                                 #  
#####
```

Enter Patient name: naphat

Enter Patient surname: ggg

You have no records!

Press Enter to continue...

|

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