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**PROJECT C++ : Laundry Store**

**จัดทำโดย**

6530200096 ชัยพร พูลสวัสดิ์

6530200479 วีรญา เล็กชะอุ่ม

6530200495 ศุภกฤต สมฤทธิ์จินดา

6530200614 ณกรณ์ ตั้งประภาพร

6530200665 นนท์ปวิธ ศิลาบำรุงราษฎร์

**นำเสนอ**

ดร.จิรวรรณ เจริญสุข

**คณะวิทยาศาสตร์ ศรีราชา สาขาวิทยาการคอมพิวเตอร์ ปีการศึกษา 2565**

**มหาวิทยาลัยเกษตรศาสตร์ วิทยาเขต ศรีราชา**

**#include <iostream>**

**#include <iomanip>**

**using namespace std;**

**FILE \*file\_receipt = fopen("Transaction.txt","w");**

**int using\_account\_no;**

**void status(string status\_method){**

**if(status\_method == "active"){**

**cout << "☑ active";**

**}else if(status\_method == "busy"){**

**cout << " ☒ busy";**

**}**

**}**

**void println(int fix\_length){**

**for(int loop\_length=0;loop\_length<fix\_length;loop\_length++){**

**cout << "|";**

**}**

**cout << endl;**

**}**

**void newspace(){**

**cout << endl;**

**}**

**void showExit(){**

**cout << " Note : Press (0) to Leave Mode " << endl;**

**}**

**struct account\_database{**

**string username;**

**string password;**

**int userid;**

**}account\_folder[100];**

**class Laundry\_Management{**

**public:**

**float washing\_cost;**

**float drying\_cost;**

**string name;**

**int laundryID;**

**string tel;**

**public:**

**Laundry\_Management(string main\_name,int main\_laundryID){ // Overloading;**

**name = main\_name;**

**laundryID = main\_laundryID;**

**}**

**Laundry\_Management(string main\_name,int main\_laundryID,string main\_tel){**

**name = main\_name;**

**laundryID = main\_laundryID;**

**tel = main\_tel;**

**}**

**void setCost(float main\_washing\_cost,float main\_drying\_cost){ // Overloading;**

**this->washing\_cost = main\_washing\_cost;**

**this->drying\_cost = main\_drying\_cost;**

**}**

**void setCost(float main\_cost,bool status\_method){**

**if(status\_method == true){**

**this->washing\_cost = main\_cost;**

**}else if(status\_method == false){**

**this->drying\_cost = main\_cost;**

**}**

**}**

**};**

**class Store\_Management : public Laundry\_Management{**

**public:**

**float total;**

**string A01,A02,B01,B02;**

**char approve\_status;**

**Store\_Management(string main\_name,int main\_laundryID) : Laundry\_Management(main\_name,main\_laundryID){**

**}**

**Store\_Management(string main\_name,int main\_laundryID,string main\_tel) : Laundry\_Management(main\_name,main\_laundryID,main\_tel){**

**}**

**string calculate\_Price(string machine\_select){**

**total = 0;**

**if(machine\_select == "A01" and A01 == "active"){**

**total += Laundry\_Management::washing\_cost;**

**approve\_status = showReceipt(total,machine\_select);**

**if(approve\_status == 'y' or approve\_status == 'Y'){**

**A01 = "busy";**

**fprintf(file\_receipt,"UserID : %d A01 : %.2f LaundryID : %d\n",account\_folder[using\_account\_no].userid,Laundry\_Management::washing\_cost,Laundry\_Management::laundryID);**

**return "success";**

**}else if(approve\_status == 'n' or approve\_status == 'N'){**

**cout <<" Note : ☒ Cancel Approving! " << endl;**

**}**

**else{**

**cout << " Note : ERROR#!2 | Try Again! " << endl;**

**}**

**}else if(machine\_select == "A02" and A02 == "active"){**

**total += Laundry\_Management::washing\_cost;**

**approve\_status = showReceipt(total,machine\_select);**

**if(approve\_status == 'y' or approve\_status == 'Y'){**

**A02 = "busy";**

**fprintf(file\_receipt,"UserID : %d A02 : %.2f LaundryID : %d\n",account\_folder[using\_account\_no].userid,Laundry\_Management::washing\_cost,Laundry\_Management::laundryID);**

**return "success";**

**}else if(approve\_status == 'n' or approve\_status == 'N'){**

**cout <<" Note : ☒ Cancel Approving! " << endl;**

**}else{**

**cout << " Note : ERROR#!2 | Try Again! " << endl;**

**}**

**}else if(machine\_select == "B01" and B01 == "active"){**

**total += Laundry\_Management::drying\_cost;**

**approve\_status = showReceipt(total,machine\_select);**

**if(approve\_status == 'y' or approve\_status == 'Y'){**

**B01 = "busy";**

**fprintf(file\_receipt,"UserID : %d B01 : %.2f LaundryID : %d\n",account\_folder[using\_account\_no].userid,Laundry\_Management::washing\_cost,Laundry\_Management::laundryID);**

**return "success";**

**}else if(approve\_status == 'n' or approve\_status == 'N'){**

**cout <<" Note : ☒ Cancel Approving! " << endl;**

**}else{**

**cout << " Note : ERROR#!2 | Try Again! " << endl;**

**}**

**}else if(machine\_select == "B02" and B02 == "active"){**

**total += Laundry\_Management::drying\_cost;**

**approve\_status = showReceipt(total,machine\_select);**

**if(approve\_status == 'y' or approve\_status == 'Y'){**

**B02 = "busy";**

**fprintf(file\_receipt,"UserID : %d B02 : %.2f LaundryID : %d\n",account\_folder[using\_account\_no].userid,Laundry\_Management::washing\_cost,Laundry\_Management::laundryID);**

**return "success";**

**}else if(approve\_status == 'n' or approve\_status == 'N'){**

**cout <<" Note : ☒ Cancel Approving! " << endl;**

**}else{**

**cout << " Note : ERROR#!2 | Try Again! " << endl;**

**}**

**}else if(machine\_select != "A01" and machine\_select != "A02" and machine\_select != "B01" and machine\_select != "B02"){**

**cout << " Not Found | Please Try Again!" << endl;**

**return "fail";**

**}else{**

**cout << " Washer/Dryer are busy | Please Try Again!" << endl;**

**return "fail";**

**}**

**return "fail";**

**}**

**char showReceipt(float total,string machine\_select){**

**newspace();**

**println(45);**

**cout << "| " << Laundry\_Management::name << " Receipt |" << endl;**

**println(45);**

**newspace();**

**cout << "UserID : " << account\_folder[using\_account\_no].userid << " " << machine\_select << " : " << total << "฿ " << "LaundryID : " << Laundry\_Management::laundryID;**

**newspace();**

**cout << " (Y) Approve (N) Cancel : "; cin >> approve\_status;**

**return approve\_status;**

**}**

**void resetStatus(){**

**A01 = "active";**

**A02 = "active";**

**B01 = "active";**

**B02 = "active";**

**}**

**void showWash\_Machine();**

**void showDry\_Machine();**

**void showThumbnil(){**

**println(37);**

**cout << "| " << Laundry\_Management::name << " |"<< endl;**

**println(37);**

**newspace();**

**}**

**};**

**void Store\_Management :: showWash\_Machine(){ // Scope Resolution;**

**cout<<" ";status(A01);**

**cout<<" ";status(A02);**

**newspace();**

**cout << " |~~~~~~~~~~~| |~~~~~~~~~~~|" << endl;**

**cout << " | | | |" << endl;**

**cout << " | Washing | | Washing |" << endl;**

**cout << " | Machine | | Machine |" << endl;**

**cout << " | A01 | | A02 |" << endl;**

**cout << " |\_\_\_\_\_\_\_\_\_\_\_| |\_\_\_\_\_\_\_\_\_\_\_|" << endl;**

**}**

**void Store\_Management :: showDry\_Machine(){ // Scope Resolution;**

**newspace();**

**cout<<" ";status(B01);**

**cout<<" ";status(B02);**

**newspace();**

**cout << " |~~~~~~~~~~~| |~~~~~~~~~~~|" << endl;**

**cout << " | | | |" << endl;**

**cout << " | Dry | | Dry |" << endl;**

**cout << " | Machine | | Machine |" << endl;**

**cout << " | B01 | | B02 |" << endl;**

**cout << " |\_\_\_\_\_\_\_\_\_\_\_| |\_\_\_\_\_\_\_\_\_\_\_|" << endl;**

**}**

**class Entrepreneur\_Management : public Laundry\_Management{**

**public:**

**string keys,keyword\_input;**

**float new\_washing\_cost,new\_drying\_cost;**

**Entrepreneur\_Management(string main\_name,int main\_laundryID) : Laundry\_Management(main\_name,main\_laundryID){**

**}**

**Entrepreneur\_Management(string main\_name,int main\_laundryID,string main\_tel) : Laundry\_Management(main\_name,main\_laundryID,main\_tel){**

**}**

**void setKeys(string main\_keys){**

**keys = main\_keys;**

**}**

**string loginSystem(){**

**println(45);**

**cout << "| Laundry Store | Entrepreneur Management |" << endl;**

**println(45);**

**newspace();**

**cout << " Keys : "; cin >> keyword\_input;**

**if(keyword\_input == keys){**

**cout << " "; status("active"); newspace();**

**newspace();**

**return "success";**

**}else if(keyword\_input == "0"){**

**return "exit";**

**}else if(keyword\_input != keys){**

**showExit();**

**return "fail";**

**}**

**return 0;**

**}**

**float editBothCost(){**

**println(45);**

**cout << "| Laundry Store | Edit Cost Washing&Drying |" << endl;**

**println(45);**

**newspace();**

**cout << " Washing Cost > "; cin >> new\_washing\_cost;**

**cout << " Drying Cost > "; cin >> new\_drying\_cost;**

**newspace();**

**return new\_washing\_cost,new\_drying\_cost;**

**}**

**float editWashingCost(){**

**println(45);**

**cout << "| Laundry Store | Edit Cost Washing |" << endl;**

**println(45);**

**newspace();**

**cout << " Washing Cost > "; cin >> new\_washing\_cost;**

**newspace();**

**return new\_washing\_cost;**

**}**

**float editDryingCost(){**

**println(45);**

**cout << "| Laundry Store | Edit Cost Drying |" << endl;**

**println(45);**

**newspace();**

**cout << " Drying Cost > "; cin >> new\_drying\_cost;**

**newspace();**

**return new\_drying\_cost;**

**}**

**void showMember(int main\_account\_no){**

**println(40);**

**cout << "| Laundry Store | Account Database |" << endl;**

**println(40);**

**newspace();**

**for(int account\_no=0;account\_no<main\_account\_no;account\_no++){**

**cout << " User No." << account\_folder[account\_no].userid << endl;**

**cout << " Username : " << account\_folder[account\_no].username << endl;**

**cout << " Password : " << account\_folder[account\_no].password << endl;**

**newspace();**

**}**

**}**

**};**

**string login\_account(){**

**string login\_username,login\_password;**

**println(37);**

**cout << "| Laundry Store | Login System |" << endl;**

**println(37);**

**newspace();**

**cout << " Username : "; cin >> login\_username;**

**if(login\_username == "0"){**

**return "exit";**

**}**

**cout << " Password : "; cin >> login\_password;**

**if(login\_password == "0"){**

**return "exit";**

**}**

**for(int account\_no = 0;account\_no < 100;account\_no++){**

**if(login\_username == account\_folder[account\_no].username){**

**if(login\_password == account\_folder[account\_no].password){**

**cout << " ☑ Login Success | Nice to see you! " << endl;**

**newspace();**

**using\_account\_no = account\_no;**

**return "success";**

**}else{**

**cout << " ☒ Password Incorrect | Try Again! " << endl;**

**showExit();**

**return "fail";**

**}**

**}else if(account\_no == 99){**

**cout << " ☒ Not Found | Try Again! " << endl;**

**showExit();**

**newspace();**

**return "fail";**

**}**

**}**

**return 0;**

**}**

**string create\_account(int account\_no){**

**string create\_username,create\_password;**

**println(37);**

**cout << "| Laundry Store | Register System |" << endl;**

**println(37);**

**newspace();**

**cout << " Username : "; cin >> create\_username;**

**if(create\_username == "0"){**

**return "exit";**

**}**

**cout << " Password : "; cin >> create\_password;**

**if(create\_password == "0"){**

**return "exit";**

**}**

**for(int account\_no=0;account\_no < 100;account\_no++){**

**if(create\_username == account\_folder[account\_no].username){**

**cout << " Note : Username has been using! " << endl;**

**showExit();**

**return "fail";**

**}**

**}**

**account\_folder[account\_no].username = create\_username;**

**account\_folder[account\_no].password = create\_password;**

**account\_folder[account\_no].userid = rand();**

**cout << " ☑ Register Success | Nice to see you! " << endl;**

**newspace();**

**using\_account\_no = account\_no;**

**return "success";**

**}**

**int main(){**

**float main\_washing\_cost,main\_drying\_cost;**

**string func\_status,machine\_select,entrepreneur\_status;**

**int entrepreneur\_mode;**

**Store\_Management Sriracha\_store("Sriracha Laundry Store",05677777);**

**Store\_Management Pattaya\_store("Pattaya Laundry Store ",45645767);**

**Entrepreneur\_Management Owner("Owner",17641,"066-112-6441");**

**int main\_mode,account\_no = 0;**

**Sriracha\_store.setCost(float(40),float(40));**

**Pattaya\_store.setCost(float(40),float(40));**

**Sriracha\_store.resetStatus();**

**Pattaya\_store.resetStatus();**

**while(true){**

**println(37);**

**cout << "| Laundry Store | Management System |" << endl;**

**println(37);**

**newspace();**

**cout << " (1) Login Account " << endl;**

**cout << " (2) Register Account " << endl;**

**cout << " (3) Entrepreneur System " << endl;**

**cout << " (0) Leave Program " << endl;**

**newspace();**

**while(true){**

**cout << " System Mode > ";**

**cin >> main\_mode;**

**if(main\_mode > 3 or main\_mode < 0){**

**cout << " ☒ Not Found | Try Again!" << endl;**

**}else{**

**break;**

**}**

**}**

**if(main\_mode == 1){**

**while(true){**

**newspace();**

**func\_status = login\_account();**

**if(func\_status == "success"){**

**break;**

**}else if(func\_status == "fail"){**

**continue;**

**}else if(func\_status == "exit"){**

**newspace();**

**break;**

**}**

**}**

**}else if(main\_mode == 2){**

**if(account\_no < 100 and account\_no >= 0){**

**while(true){**

**newspace();**

**func\_status = create\_account(account\_no);**

**if(func\_status == "success"){**

**account\_no++;**

**break;**

**}else if(func\_status == "fail"){**

**continue;**

**}else if(func\_status == "exit"){**

**newspace();**

**break;**

**}**

**}**

**}else{**

**cout << " Note : ERROR#!7 | Full Memory! " << endl;**

**newspace();**

**}**

**}else if(main\_mode == 3){**

**Owner.setKeys("9");**

**while(true){**

**newspace();**

**entrepreneur\_status = Owner.loginSystem();**

**if(entrepreneur\_status == "success"){**

**while(true){**

**println(37);**

**cout << "| Laundry Store | Entrepreneur Mode |" << endl;**

**println(37);**

**newspace();**

**cout << " (1) Show User Account " << endl;**

**cout << " (2) Edit Cost " << endl;**

**cout << " (0) Leave Mode " << endl;**

**newspace();**

**cout << " System Mode > "; cin >> entrepreneur\_mode;**

**newspace();**

**if(entrepreneur\_mode == 1){**

**newspace();**

**Owner.showMember(account\_no);**

**}else if(entrepreneur\_mode == 2){**

**newspace();**

**println(37);**

**cout << "| Laundry Store | Edit Machine Cost |" << endl;**

**println(37);**

**newspace();**

**cout << " (1) Edit Washing Cost " << endl;**

**cout << " (2) Edit Drying Cost " << endl;**

**cout << " (3) Edit Both Cost " << endl;**

**cout << " (0) Leave Mode " << endl;**

**newspace();**

**cout << " System Mode > "; cin >> entrepreneur\_mode;**

**newspace();**

**if(entrepreneur\_mode == 1){**

**main\_washing\_cost = Owner.editWashingCost();**

**Pattaya\_store.setCost(main\_washing\_cost,true);**

**Sriracha\_store.setCost(main\_washing\_cost,true);**

**}else if(entrepreneur\_mode == 2){**

**main\_drying\_cost = Owner.editDryingCost();**

**Pattaya\_store.setCost(main\_drying\_cost,false);**

**Sriracha\_store.setCost(main\_drying\_cost,false);**

**}else if(entrepreneur\_mode == 3){**

**main\_washing\_cost = Owner.editWashingCost();**

**main\_drying\_cost = Owner.editDryingCost();**

**Pattaya\_store.setCost(main\_washing\_cost,main\_drying\_cost);**

**Sriracha\_store.setCost(main\_washing\_cost,main\_drying\_cost);**

**}else if(entrepreneur\_mode == 0){**

**continue;**

**}else{**

**cout << " Note : Try Again!" << endl;**

**newspace();**

**}**

**}else if(entrepreneur\_mode == 0){**

**func\_status = "fail";**

**break;**

**}else{**

**cout << " Note : Try Again!" << endl;**

**}**

**}**

**break;**

**}else if(entrepreneur\_status == "fail"){**

**cout << " ☒ Keys Incorrect | Try Again! " << endl;**

**continue;**

**}else if(entrepreneur\_status == "exit"){**

**newspace();**

**func\_status = "fail";**

**break;**

**}**

**}**

**}else if(main\_mode == 0){**

**break;**

**}**

**if(func\_status == "success"){**

**while(true){**

**println(37);**

**cout << "| Laundry Store | Location Store |" << endl;**

**println(37);**

**newspace();**

**cout << " (1) Sriracha Campus Store " << endl;**

**cout << " (2) Pattaya Beach Store " << endl;**

**showExit();**

**newspace();**

**cout << " System Mode > "; cin >> main\_mode;**

**if(main\_mode == 1){**

**while(true){**

**newspace();**

**Sriracha\_store.showThumbnil();**

**Sriracha\_store.showWash\_Machine();**

**Sriracha\_store.showDry\_Machine();**

**newspace();**

**showExit();**

**cout << " Machine Select > "; cin >> machine\_select;**

**if(machine\_select == "0"){**

**newspace();**

**break;**

**}else{**

**string func\_status = Sriracha\_store.calculate\_Price(machine\_select);**

**if(func\_status == "success"){**

**break;**

**}**

**}**

**}**

**}else if(main\_mode == 2){**

**while(true){**

**newspace();**

**Pattaya\_store.showThumbnil();**

**Pattaya\_store.showWash\_Machine();**

**Pattaya\_store.showDry\_Machine();**

**newspace();**

**showExit();**

**cout << " Machine Select > "; cin >> machine\_select;**

**if(machine\_select == "0"){**

**newspace();**

**break;**

**}else{**

**string func\_status = Pattaya\_store.calculate\_Price(machine\_select);**

**if(func\_status == "success"){**

**break;**

**}**

**}**

**}**

**}else if(main\_mode == 0){**

**newspace();**

**break;**

**}else{**

**cout << " Note : ☒ Try Again!" << endl;**

**}**

**}**

**}**

**}**

**}**