**Guest.h**

// IT22577306 - H I H P MASINGHE

#include<iostream>

#include<iomanip>

using namespace std;

class Guest {

protected:

string email;

public:

Guest(string gEmail);

~Guest();

};

**Guest.cpp**

#include "Guest.h"

Guest::Guest(string gEmail) {

email = gEmail;

}

Guest::~Guest()

{

}

**Registereduser.h**

// IT22586452 – I D Kulasinghe

#include"Guest.h"

class RegisteredUser : public Guest {

protected:

string name;

string address;

int contactNo;

string userName;

string password;

public:

RegisteredUser(string rName, string rAddress, int rContactNo, string rUserName, string rPassword, string rEmail);

void addUserAccount(string rName, string rAddress, int rContactNo, string rEmail);

void removeUserAccount(string rName, string rAddress, int rContactNo, string rUserName, string rPassword, string rEmail);

void updateuserAccount(string rName, string rAddress, int rContactNo, string rEmail);

~RegisteredUser();

};

**RegisteredUser.cpp**

#include "RegisteredUser.h"

RegisteredUser::RegisteredUser(string rName, string rAddress, int rContactNo, string rUserName, string rPassword, string rEmail) : Guest(rEmail) {

name = rName;

address = rAddress;

contactNo = rContactNo;

userName = rUserName;

password = rPassword;

}

void RegisteredUser::addUserAccount(string rName, string rAddress, int rContactNo, string rEmail) {

name = rName;

address = rAddress;

contactNo = rContactNo;

}

void RegisteredUser::removeUserAccount(string rName, string rAddress, int rContactNo, string rUserName, string rPassword, string rEmail) {

name = rName;

address = rAddress;

contactNo = rContactNo;

userName = rUserName;

password = rPassword;

}

void RegisteredUser::updateuserAccount(string rName, string rAddress, int rContactNo, string rEmail) {

name = rName;

address = rAddress;

contactNo = rContactNo;

}

RegisteredUser::~RegisteredUser()

{

}

**Patient.h**

// IT22577306 - H I H P MASINGHE

#include"RegisteredUser.h"

class Patient : public RegisteredUser {

private:

string patientID;

public:

Patient(string pID, string pName, string pAddress, int pContactNo, string pUserName, string pPassword, string pEmail) : RegisteredUser(pName, pAddress, pContactNo, pUserName, pPassword),Guest(pEmail);

void displayPatientDetails();

~Patient();

};

**Patient.cpp**

#include "Patient.h"

Patient::Patient(string pID, string pName, string pAddress, int pContactNo, string pUserName, string pPassword, string pEmail)

: RegisteredUser(pName, pAddress, pContactNo, pUserName, pPassword, pEmail), Guest(pEmail)

{

patientID = pID;

}

void Patient::displayPatientDetails()

{

cout << "Patient ID: " << patientID << endl;

cout << "Name: " << name << endl;

cout << "Address: " << address << endl;

cout << "Contact No: " << contactNo << endl;

cout << "Username: " << userName << endl;

cout << "Password: " << password << endl;

cout << "Email: " << email << endl;

}

Patient::~Patient()

{

}

**Doctor.h**

// IT22143754 – T N Samaraweera

#include"Staff.h"

class Doctor : public Staff {

private:

string doctorID;

public:

Doctor(string dName, int dCon, string dID) : Staff(dName, dCon);

~Doctor();

};

**Doctor.cpp**

#include "Doctor.h"

Doctor::Doctor(string dName, int dCon, string dID) : Staff(dName, dCon, dID) {

doctorID = dID;

}

Doctor::~Doctor()

{

}

**Supplier.h**

// IT22151674 – S R Sendanayake

#include"RegisteredUser.h"

class Supplier : public RegisteredUser {

private:

string supplierID;

public:

Supplier(string sID, string sName, string sAddress, int sContactNo, string sUserName, string sPassword, string sEmail) : RegisteredUser(sName, sAddress, sContactNo, sUserName, sPassword), Guest(sEmail);

void displayPatientDetails();

~Supplier();

};

**Supplier.cpp**

#include "Supplier.h"

Supplier::Supplier(string sID, string sName, string sAddress, int sContactNo, string sUserName, string sPassword, string sEmail)

{

supplierID = sID;

}

void Supplier::displayPatientDetails()

{

cout << "Supplier ID: " << supplierID << endl;

cout << "Name: " << name << endl;

cout << "Address: " << address << endl;

cout << "Contact No: " << contactNo << endl;

cout << "Username: " << userName << endl;

cout << "Password: " << password << endl;

cout << "Email: " << email << endl;

}

Supplier::~Supplier()

{

}

**Booking.h**

// IT22143754 – T N Samaraweera

#include<iostream>

#include<iomanip>

using namespace std;

class Booking

{

string bookingID;

public:

void approveBooking();

void displayBookingDetails();

};

**Bokking.cpp**

#include "Booking.h"

void Booking::approveBooking()

{

cout << "Booking approved!" << endl;

}

void Booking::displayBookingDetails()

{

cout << "Booking ID: " << bookingID << endl;

}

**Feedback.h**

// IT22577306 - H I H P MASINGHE

#include<iostream>

#include<iomanip>

using namespace std;

class Feedback {

private:

string feedback;

public:

void addFeedback(string fed);

void displayFeedback();

void handleFeedback();

};

**Feedback.cpp**

#include "Feedback.h"

void Feedback::addFeedback(string fed)

{

feedback = fed;

}

void Feedback::displayFeedback()

{

cout << "Feedback: " << feedback << endl;

}

void Feedback::handleFeedback()

{

}

**Staff.h**

// IT22162182 – K K N Kamesha

#include<iostream>

#include<iomanip>

using namespace std;

class Staff {

protected:

string staffName;

int staffContact;

string staffID;

public:

Staff(string sName, int sCon, string sID);

void dispalystaffDetails();

~Staff();

};

**Staff.cpp**

#include "Staff.h"

Staff::Staff(string sName, int sCon, string sID) {

staffName = sName;

staffContact = sCon;

staffID = sID;

}

void Staff::dispalystaffDetails() {

cout << "Staff Name: " << staffName << endl;

cout << "Contact: " << staffContact << endl;

cout << "Staff ID: " << staffID << endl;

}

Staff::~Staff() {

}

**Vaccine.h**

// IT22151674 – S R Sendanayake

#include<iostream>

#include<iomanip>

using namespace std;

class Vaccine

{

private:

string vaccineID;

string vaccineName;

string manufacture;

float price;

public:

Vaccine(string vID, string vName, string vManu, float vPrice);

void displayVaccineDetails();

void addVaccine(string vID, string vName, string vManu, float vPrice);

void removeVaccine();

void updateVaccine(string vID, string vName, string vManu, float vPrice);

~Vaccine();

};

**Vaccine.cpp**

#include "Vaccine.h"

Vaccine::Vaccine(string vID, string vName, string vManu, float vPrice)

{

vaccineID = vID;

vaccineName = vName;

manufacture = vManu;

price = vPrice;

}

void Vaccine::displayVaccineDetails()

{

cout << "Vaccine ID: " << vaccineID << endl;

cout << "Vaccine Name: " << vaccineName << endl;

cout << "Manufacturer: " << manufacture << endl;

cout << "Price: " << price << endl;

}

void Vaccine::addVaccine(string vID, string vName, string vManu, float vPrice)

{

vaccineID = vID;

vaccineName = vName;

manufacture = vManu;

price = vPrice;

cout << "Vaccine added successfully!" << endl;

}

void Vaccine::removeVaccine()

{

vaccineID = "";

vaccineName = "";

manufacture = "";

price = 0.0;

cout << "Vaccine removed successfully!" << endl;

}

void Vaccine::updateVaccine(string vID, string vName, string vManu, float vPrice)

{

vaccineID = vID;

vaccineName = vName;

manufacture = vManu;

price = vPrice;

cout << "Vaccine updated successfully!" << endl;

}

Vaccine::~Vaccine()

{

}

**Order.h**

// IT22586452 – I D Kulasinghe

#include<iostream>

#include<iomanip>

using namespace std;

class Order {

private:

string orderID;

public:

void setOrder(string oID);

void manageOrders();

void displayOrderDetails();

};

**Order.cpp**

#include "Order.h"

void Order::setOrder(string oID)

{

orderID = oID;

}

void Order::manageOrders()

{

cout << "Orders managed successfully!" << endl;

}

void Order::displayOrderDetails()

{

}

**Payment.h**

// IT22577306 - H I H P MASINGHE

#include<iostream>

#include<iomanip>

using namespace std;

class Payment

{

private:

string paymentID;

float total;

public:

Payment();

Payment(float pID);

void displayPaymentDetails();

void makePayment();

float calcTotal();

~Payment();

};

**Payment.cpp**

#include "Payment.h"

Payment::Payment()

{

total = 0;

}

Payment::Payment(float pID)

{

paymentID = pID;

}

void Payment::displayPaymentDetails()

{

cout << "Payment ID: " << paymentID << endl;

cout << "Total Amount: " << total << endl;

}

void Payment::makePayment()

{

cout << "Payment processed successfully!" << endl;

}

float Payment::calcTotal()

{

return 0.0f;

}

Payment::~Payment()

{

}

**Main.cpp**

// IT22577306 - H I H P MASINGHE

// IT22586452 – I D Kulasinghe

// IT22151674 – S R Sendanayake

// IT22143754 – T N Samaraweera

// IT22162182 – K K N Kamesha

#include"Guest.h"

#include"Feedback.h"

#include"RegisteredUser.h"

#include"Patient.h"

#include"Order.h"

#include"Staff.h"

#include"Doctor.h"

#include"Booking.h"

#include"Supplier.h"

#include"Vaccine.h"

#include"Payment.h"

#include<iostream>

using namespace std;

int main()

{

return 0;

}