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#include <iostream>

#include <string>

using namespace std;

int main() {

    const int numRooms = 10;

    bool rooms[numRooms] = {false};

    string guests[numRooms];

    string guestContacts[numRooms];

    string branches[] = {"Mexico Branch", "Megenagna Branch", "Piassa Branche"};

    string currentBranch = branches[0];

    cout << "Welcome to the Maleda Hotel Booking System" << endl;

    while (true) {

        cout << "\nMENU:\n";

        cout << "1. Book a room\n";

        cout << "2. Check room availability\n";

        cout << "3. Check out a guest\n";

        cout << "4. Display guest information\n";

        cout << "5. Switch hotel branch\n";

        cout << "6. Exit\n";

        cout << "Enter your choice: ";

        int choice;

        cin >> choice;

        switch (choice) {

            case 1: {
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int roomNumber;

cout << "Enter room number (1-" << numRooms << "): ";

cin >> roomNumber;

if (roomNumber < 1 || roomNumber > numRooms) {

cout << "Invalid room number. Please enter a valid room number." << endl;

} else if (rooms[roomNumber - 1]) {

cout << "Sorry, the room is already occupied. Please choose another room." << endl;

} else {

cout << "Enter guest name: ";

cin.ignore();

getline(cin, guests[roomNumber - 1]);

cout << "Enter guest contact: ";

cin >> guestContacts[roomNumber - 1];

rooms[roomNumber - 1] = true;

cout << "Room " << roomNumber << " booked successfully." << endl;

}

break;

}

case 2: {

cout << "Room Availability:\n";

for (int i = 0; i < numRooms; i++) {

if(rooms[i]){

cout<<"Room"<<(i+1)<<":Occupied"<<endl;

}

else

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cout<<"Room"<<(i+1)<<":Available"<<endl;

}

break;

}

case 3: {

int roomNumber;

cout << "Enter room number to check out (1-" << numRooms << "): ";

cin >> roomNumber;

if (roomNumber < 1 || roomNumber > numRooms) {

cout << "Invalid room number. Please enter a valid room number." << endl;

} else if (!rooms[roomNumber - 1]) {

cout << "Room " << roomNumber << " is not occupied." << endl;

} else {

rooms[roomNumber - 1] = false;

guests[roomNumber - 1] = "";

guestContacts[roomNumber - 1] = "";

cout << "Guest in Room " << roomNumber << " has been checked out." << endl;

}

break;

}

case 4: {

cout << "Guest Information:\n";

for (int i = 0; i < numRooms; i++) {

if (rooms[i]) {

cout << "Room " << (i + 1)<<" "<<"Guests name"<< ": " << guests[i] << endl;

}

}

}

}

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cout << "Guests contact " << " - " << guestContacts[i] << endl;

}

}

break;

}

case 5: {

cout << "Select a hotel branch:" << endl;

for (int i = 0; i < sizeof(branches) / sizeof(branches[0]); i++) {

cout << i + 1 << ". " << branches[i] << endl;

}

int branchChoice;

cin >> branchChoice;

if (branchChoice >= 1 && branchChoice <= sizeof(branches) / sizeof(branches[0])) {

currentBranch = branches[branchChoice - 1];

cout << "Switched to " << currentBranch << endl;

} else {

cout << "Invalid branch selection." << endl;

}

break;

}

case 6: {

cout << "Thank you for using the Maleda Hotel Booking System. Goodbye!" << endl;

return 0;

}

default: {

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cout << "Invalid choice. Please select a valid option." << endl;
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break;
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}
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}
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}
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return 0;
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}
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