

```
#include <iostream>

#include <string>


using namespace std;


const string ADMIN_PASSWORD = "admin";

const int MAX_ATTEMPTS = 3;


void adminPanel();

void userPanel();


int main() {

    int main_choice;


    do {

        cout << endl << "    MAIN PROGRAM MENU    " << endl;

        cout << "1. Admin Panel" << endl;

        cout << "2. User Panel" << endl;

        cout << "3. Exit Program" << endl;

        cout << "Enter choice: ";

        cin >> main_choice;


        switch (main_choice) {

        case 1:

            adminPanel();
```

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        break;

    case 2:

        userPanel();

        break;

    case 3:

        cout << endl << "Exiting the program. Goodbye!" << endl << endl;

        break;

    default:

        cout << endl << "Invalid choice. Please enter 1, 2, or 3." << endl << endl;

        break;

    }

} while (main_choice != 3);

return 0;

}

void adminMenu() {

    int adChoice;

    do {

        cout << endl << "--- ADMIN TASKS MENU ---" << endl;

        cout << "1. View Database" << endl;

        cout << "2. Change Settings" << endl;

        cout << "3. Return to Main Menu" << endl;
```

```
    cout << "Enter task choice: ";

    cin >> adChoice;

    switch (adChoice) {

    case 1:

        cout << " Displaying secret database info " << endl;

        break;

    case 2:

        cout << " Settings have been changed." << endl;

        break;

    case 3:

        cout << endl << " task complete. " << endl;

        break;

    default:

        cout << endl << "Invalid choice" << endl;

        break;

    }

    } while (adChoice != 3);

}

void adminPanel() {

    string input_password;

    int attempts = 0;

    cout << endl << "--- ADMIN LOGIN REQUIRED ---" << endl;
```

```
while (attempts < MAX_ATTEMPTS) {  
    cout << "Enter Password (Attempt " << attempts + 1 << " of " << MAX_ATTEMPTS << "): ";  
    cin >> input_password;
```

```
    if (input_password == ADMIN_PASSWORD) {  
        cout << endl << "Password Correct! Access Granted." << endl;  
        adminMenu();  
        return;  
    }  
    else {  
        attempts++;  
        cout << "Incorrect Password." << endl;  
    }  
}
```

```
    cout << endl << "*** ACCESS DENIED *** Maximum login attempts failed. Returning to Main Menu."  
<< endl;  
}
```

```
void userMenu() {  
    int userChoice;  
  
    do {  
        cout << endl << "--- USER SERVICES MENU ---" << endl;  
        cout << "1. Check Status" << endl;
```

```
    cout << "2. Submit Request" << endl;

    cout << "3. Return to Main Menu" << endl;

    cout << "Enter service choice: ";

    cin >> userChoice;


    switch (userChoice) {

    case 1:

        cout << "[User Task] Your request is pending approval." << endl;

        break;

    case 2:

        cout << "[User Task] Your request has been submitted." << endl;

        break;

    case 3:

        cout << endl << "Returning to the Main Menu." << endl;

        break;

    default:

        cout << endl << "Invalid service choice. Try again." << endl;

        break;

    }

    } while (userChoice != 3);

}
```

```
void userPanel() {

    cout << endl << "--- Welcome, User! ---" << endl;

    userMenu();

}
```

}

```
E:\programing fundamentals\73423_ishaqkhan_khan_Task_7\64\Debug\73423_ishaqkhan_khan_Task_7.exe
MAIN PROGRAM MENU
1. Admin Panel
2. User Panel
3. Exit Program
Enter choice: 1

--- ADMIN LOGIN REQUIRED ---
Enter Password (Attempt 1 of 3): admin

Password Correct! Access Granted.

--- ADMIN TASKS MENU ---
1. View Database
2. Change Settings
3. Return to Main Menu
Enter task choice: 2
    Settings have been changed.

--- ADMIN TASKS MENU ---
1. View Database
2. Change Settings
3. Return to Main Menu
Enter task choice: 1
    Displaying secret database info

--- ADMIN TASKS MENU ---
1. View Database
2. Change Settings
3. Return to Main Menu
Enter task choice:
```