#include <iostream>

#include <fstream>

#include <string>

using namespace std;

struct User {

string username;

string password;

};

class Database {

public:

void registerUser(const User& user) {

ofstream outFile("database.txt", ios::app);

if (outFile.is\_open()) {

outFile << user.username << " " << user.password << endl;

cout << "Registration successful." << endl;

outFile.close();

} else {

cerr << "Unable to open database." << endl;

}

}

bool loginUser(const User& user) {

ifstream inFile("database.txt");

if (inFile.is\_open()) {

string storedUsername, storedPassword;

while (inFile >> storedUsername >> storedPassword) {

if (storedUsername == user.username && storedPassword == user.password) {

cout << "Login successful." << endl;

inFile.close();

return true;

}

}

inFile.close();

} else {

cerr << "Unable to open database." << endl;

}

cout << "Login failed. Invalid credentials." << endl;

return false;

}

};

int main() {

Database db;

int choice;

User user;

while (true) {

cout << "1. Register\n2. Login\n3. Exit\n";

cin >> choice;

switch (choice) {

case 1:

cout << "Enter username: ";

cin >> user.username;

cout << "Enter password: ";

cin >> user.password;

db.registerUser(user);

break;

case 2:

cout << "Enter username: ";

cin >> user.username;

cout << "Enter password: ";

cin >> user.password;

db.loginUser(user);

break;

case 3:

cout << "Exiting...";

return 0;

default:

cout << "Invalid choice. Please try again." << endl;

}

}

return 0;

}