

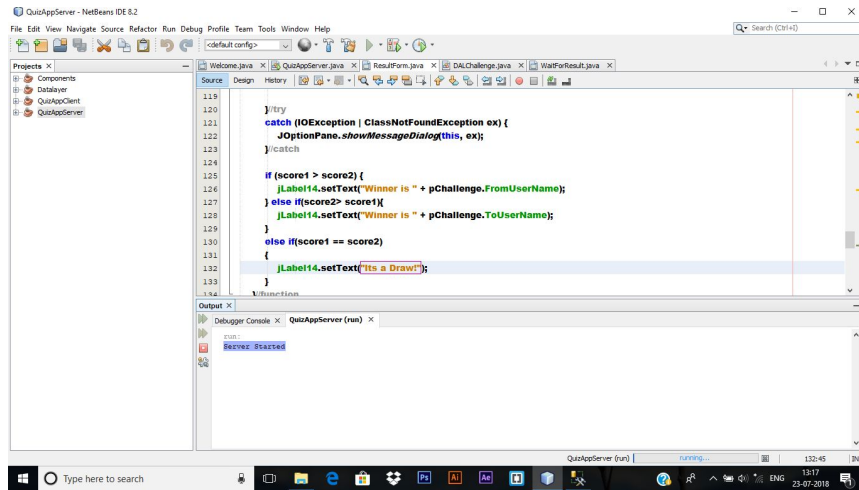
QuizApp – Client & Server

This project is a multiplayer Quiz Application built with Java, consisting of a **QuizApp Server** and **QuizApp Client**. The client communicates with the server for user registration, login, challenges, quiz attempts, and result display.



How to Run the Application

1. **Start the QuizApp Server**
Run the server first. Once it starts successfully, a “Server Started” message will appear on the console.
2. **Run the QuizApp Client**
After the server is running, launch the QuizAppClient. This opens the first interface: **Gateway Form**.

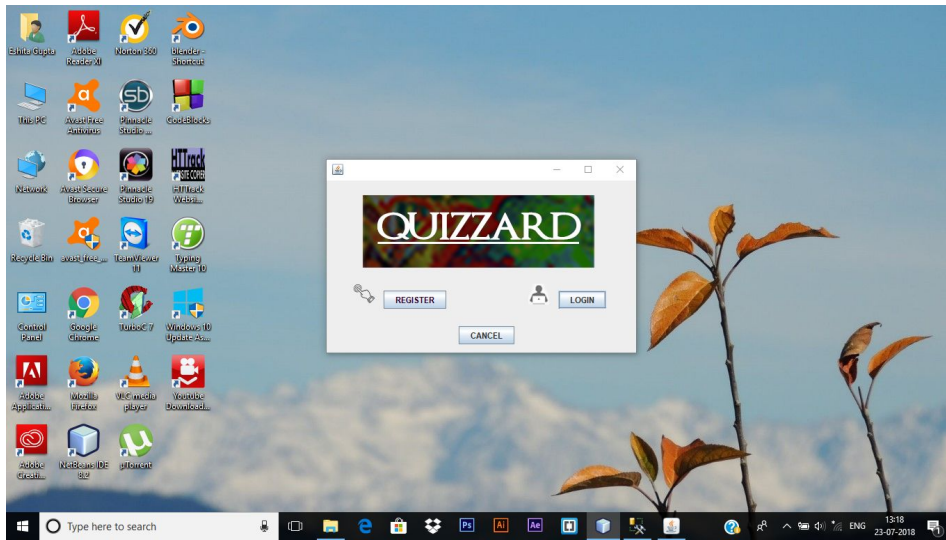


Gateway Form

The **Gateway** is the starting **JFrame** of the Quiz Client Application. It contains two main options:

- **Register**
- **Login**

Users must register before playing the quiz.



Registration

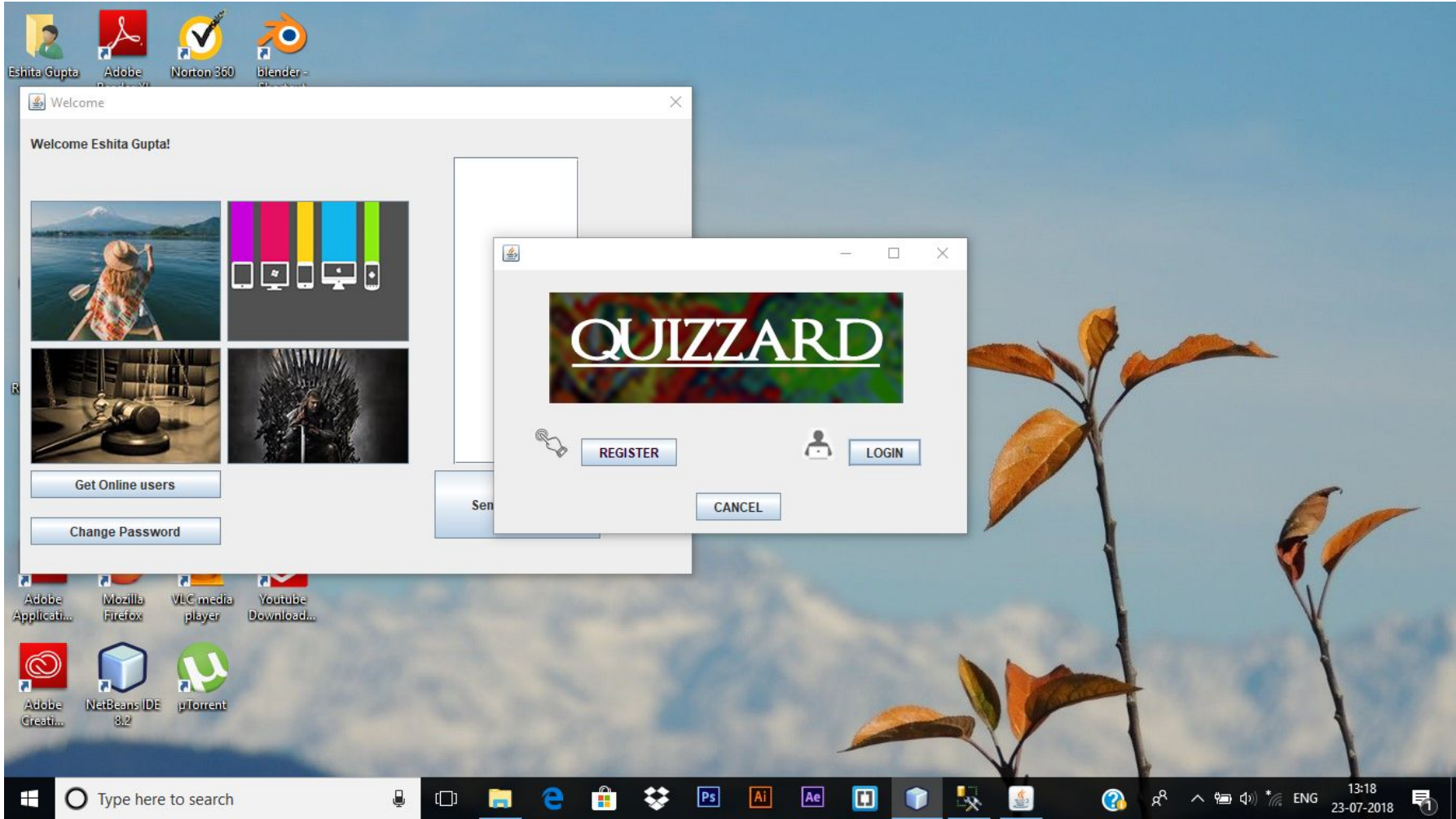
The **Register** dialog appears when the user clicks the **Register** button on the Gateway.

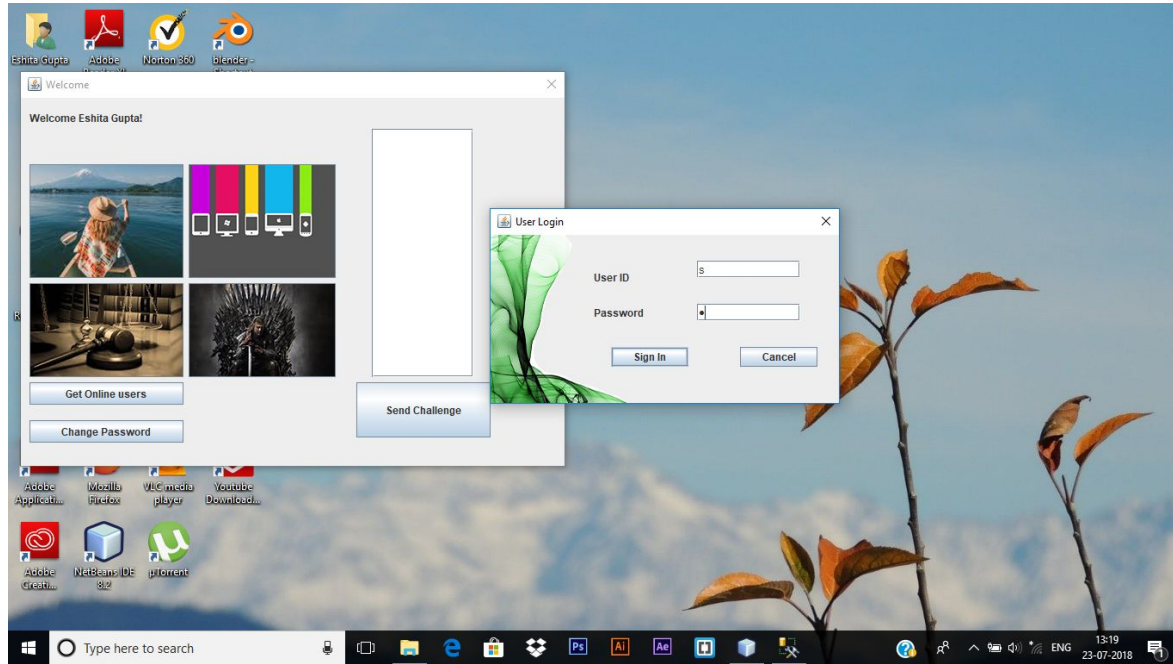
Fields included

- Name
- Age
- User ID
- Password
- Confirm Password

Validation & Workflow

- All fields are validated (non-empty checks).
- Password and Confirm Password must match.
- An object is created to store user details.
- The details are sent to the server.
- The server responds back using an **Input Stream buffer** to indicate whether registration was successful.





Login

The **Login** dialog appears when the **Login** button is clicked.

Login steps:

- User enters **User ID** and **Password**.
- Credentials are verified with the server.
- If the server returns '1', login is considered successful.

Welcome Dialog

After login, the **Welcome JDialog** displays:

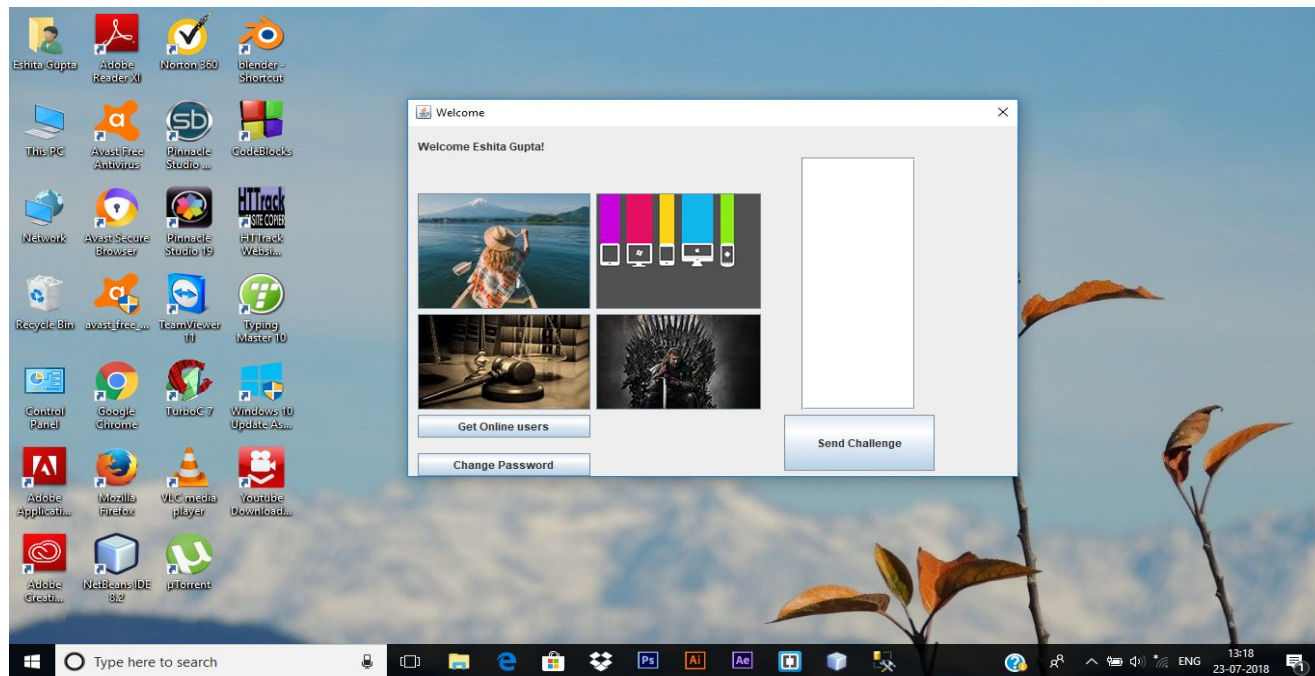
- Logged-in user details
- List of currently online users

Menu Options:

- Change Password
- Show Developers

Challenge Feature:

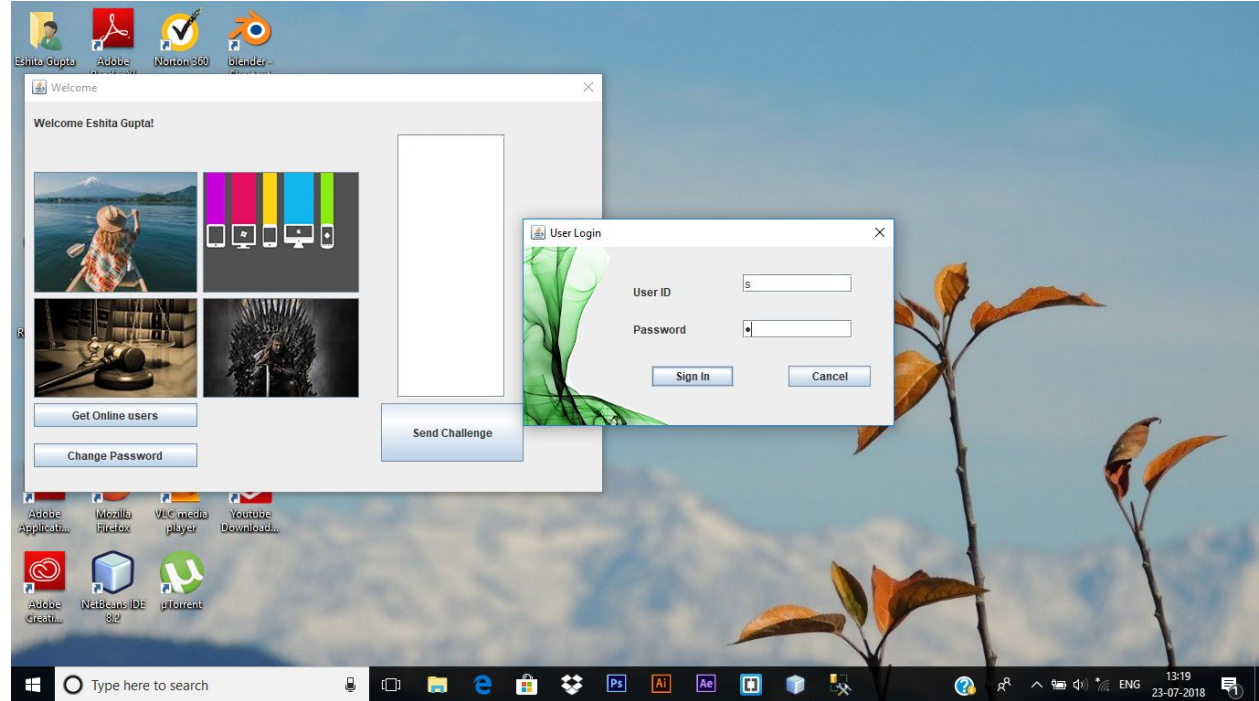
- Select an opponent from the online users list.
- Click **Send Challenge** to invite them for a quiz match.
- Control transfers to the **Response Wait Dialog**.



🔑 Change Password

A separate dialog allows the user to update their password.

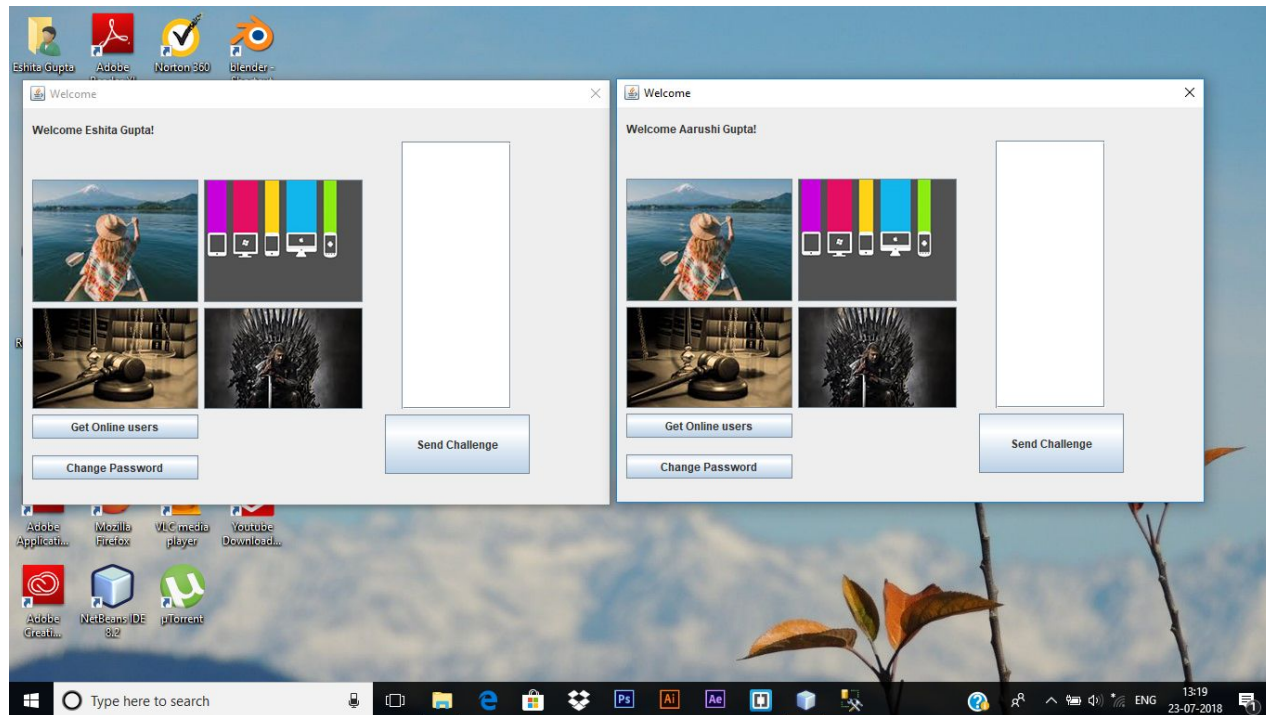
- Includes three password fields:
 - Old Password
 - New Password
 - Confirm New Password
- Old password is validated against the database.
- New passwords must match.
- Successful update is saved in the database.





Challenge Workflow

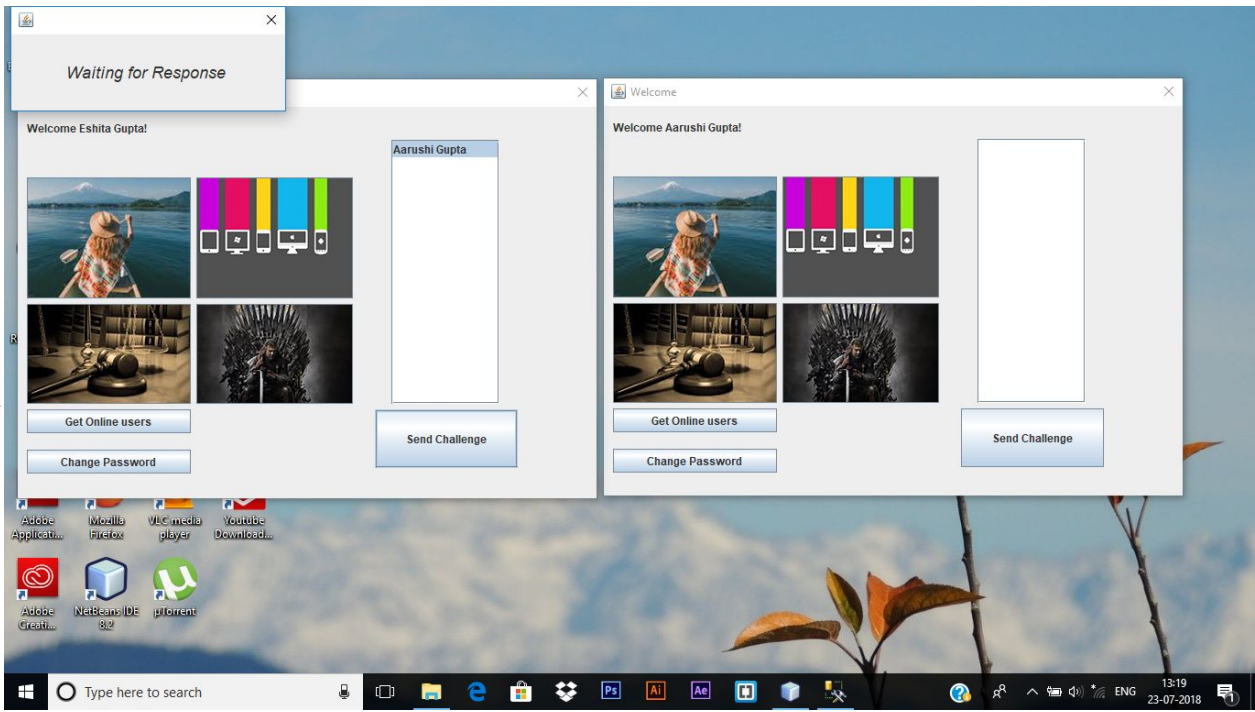
- When User A sends a challenge, they wait for User B's response.
- User B sees a Welcome dialog where they can accept the challenge.
- Once accepted, **both users** are redirected to the **Question Frame**.



? Question Frame





Both participants receive the quiz questions simultaneously.

- Users attempt questions independently.
- Once the first user submits the quiz, a **“Wait for Result”** screen is displayed for them.
- The result is generated only after **both users have submitted** their answers.



Waiting for Response

Welcome Eshita Gupta!




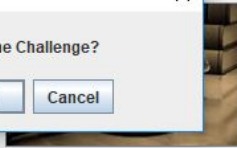


Get Online users

Change Password

Aarushi Gupta

Send Challenge

Welcome Aarushi Gupta!



Get Online users


Change Password

Send Challenge


New Challenge

Accept the Challenge?


OK Cancel




Adobe Application...




Mozilla Firefox




VLC media player




Youtube Download...



Adobe Creati...



NetBeans IDE 8.2



uTorrent



From User Eshita Gupta

To User Aarushi Gupta

Which comic does Will choose from Dustin's collection as a prize for the race home in episode one?

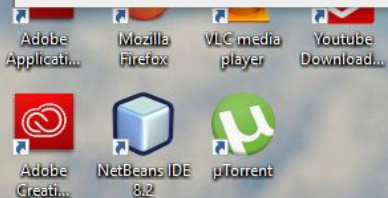
- ☐ X-Men#134
- ☐ SuperMan
- ☐ Amazing SpiderMan
- ☐ Incredible Hulk

Next

Get Online users

Change Password

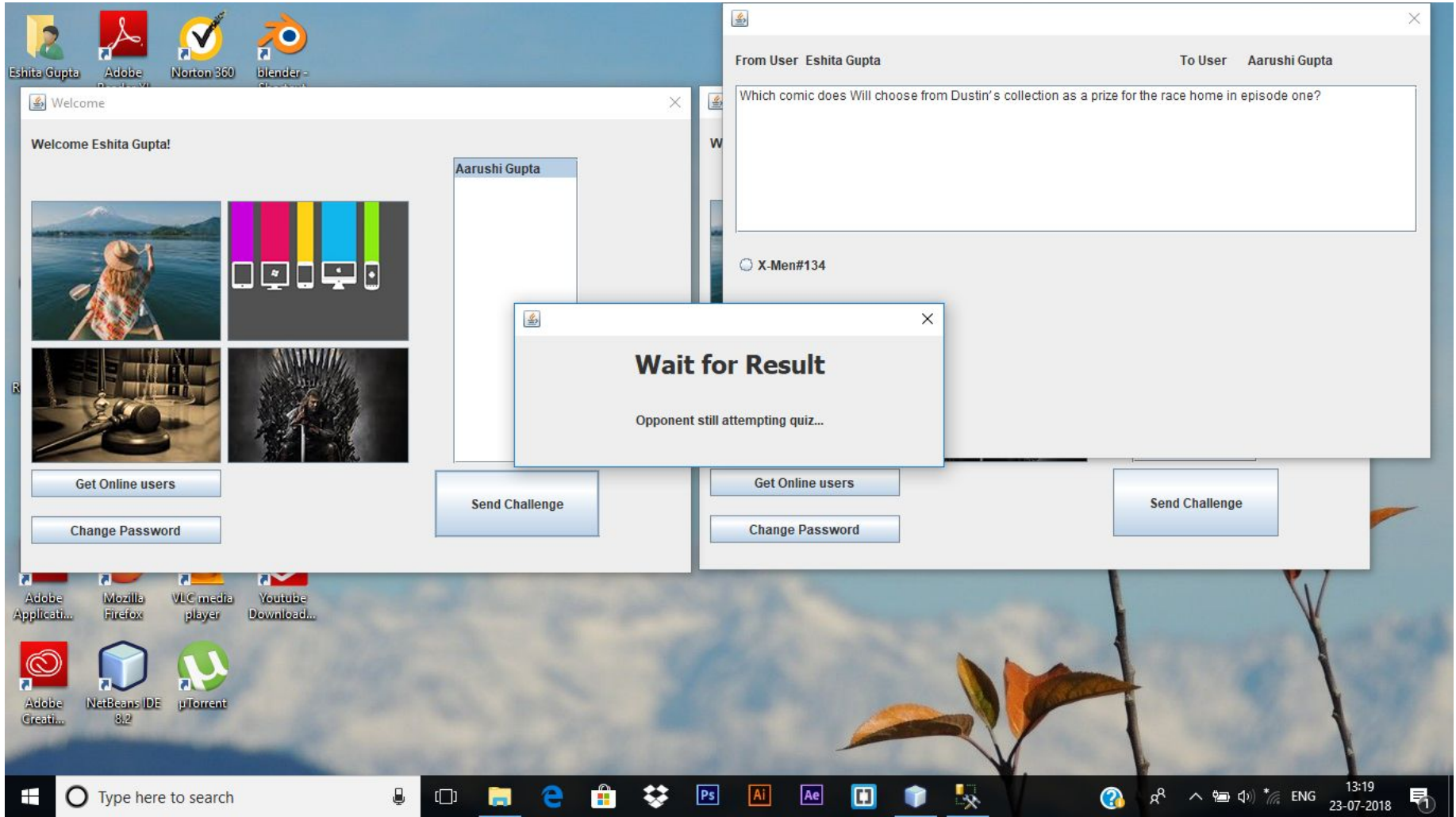
Send Challenge



Type here to search



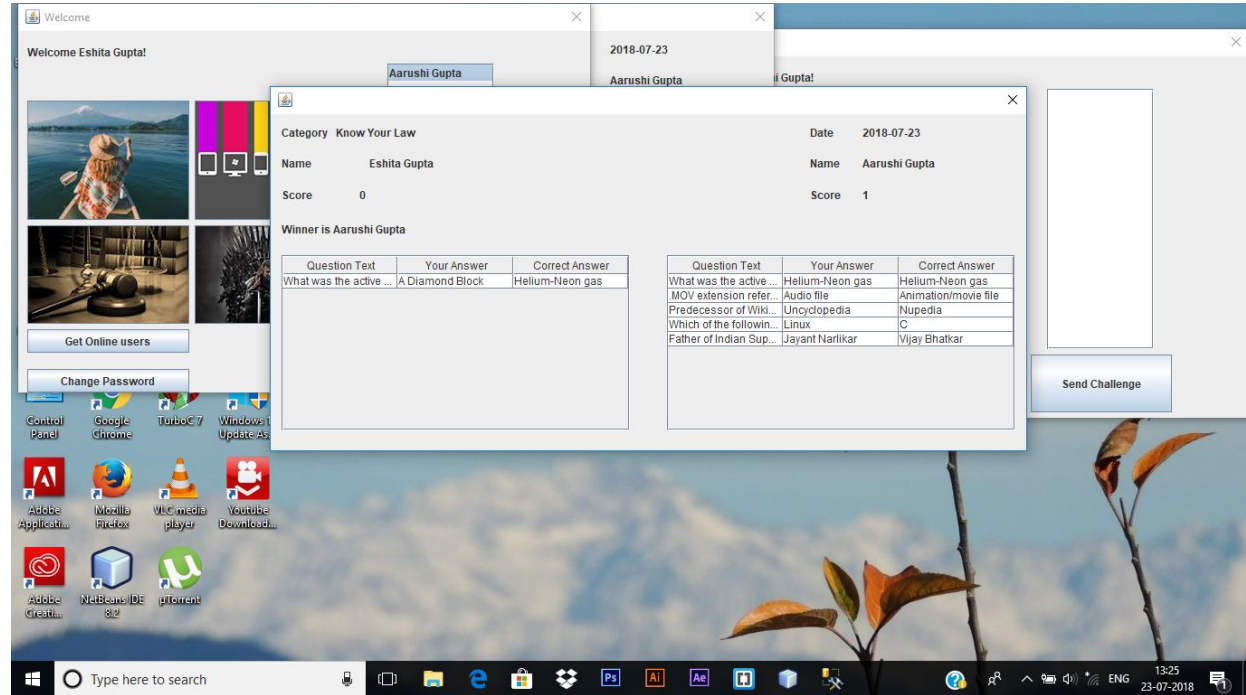
13:19
23-07-2018



Final Result

The Final Result Form displays:

- Quiz category
- Date of the quiz
- Names of both users
- Their respective scores
- Winner name



Category: Know Your Law

Date: 2018-07-23

Name: Eshita Gupta

Name: Aarushi Gupta

Score: 0

Score: 1

Winner is Aarushi Gupta

Question Text	Your Answer	Correct Answer
What was the active ...	A Diamond Block	Helium-Neon gas
What was the active ...	Helium-Neon gas	Helium-Neon gas
MOV extension refer...	Audio file	Animation/movie file
Predecessor of Wiki...	Uncyclopedia	Nupedia
Which of the followin...	Linux	C
Father of Indian Sup...	Jayant Narlikar	Vijay Bhatkar

Send Challenge

Additionally, a result table is shown with:

- Each question
- The option attempted
- The correct answer/explanation