

# Multiplayer Cards Game - Cross -



# General Presentation

- Multiplayer cards game, a variant of the widely known game of **Schnapsen**
- Client-server architecture:
  - Server – backend logic, ensures connectivity between players
  - Client – user end part of the application
  - Communication through **sockets**
- The game requires 4 players, paired in 2 teams

# Main features

- Account based
- Access to a lobby in which a user can chat, create tables, join tables
- Create public or private tables
- Play the main game
- In-game chat
- Users ranking and Hall of Fame
- User page

# Technologies

- **Java SE** – main development language
- **MySQL** – relational DBMS for holding accounts info
- **JavaFx** – used for the front-end part of the client component
- **QuickServer** – Java library for creating robust server applications
- **Maven** – build tool, dependency management
- **GitHub** – Git repository hosting service
- **IntelliJ IDEA** – preferred IDE



# Technical features

- System is multi-client, **multi-threaded**.  
=> Allows for the creation of many tables with many players which work in parallel.
- Main game logic developed as a Finite State Machine.
- **Communication** layer between server and client is achieved with the use of **JSON** strings.  
=> client app can be developed in any platform which allows sockets and JSON serialization.

# Screenshots...



The screenshot shows a web application window titled "Cards Game". The interface has a dark background with a green banner at the top center that reads "CARDS GAME". On either side of the banner are illustrations of playing cards. Below the banner, there are two main sections: "LOGIN" and "REGISTER". The "LOGIN" section has a green arrow icon, a "Username" input field, a "Password" input field with a toggle icon, and a green "LOGIN" button. The "REGISTER" section has a green plus icon, a "Username" input field, a "Password" input field with a toggle icon, a "Confirm password" input field with a toggle icon, and a green "REGISTER" button. A green circle with the text "OR" is positioned between the two sections.

Cards Game

**CARDS GAME**

**> LOGIN**

Username

Password

**LOGIN**

**+ REGISTER**

Username

Password

Confirm password

**REGISTER**

OR

Logged in as: Johnny



# CARDS GAME



## ... CHAT

Johnny: I am able to chat here!!!

JohnDoe: Me too!!!

## > TABLES

JohnDoe - 1/4

[CREATE TABLE](#)[HALL OF FAME](#)



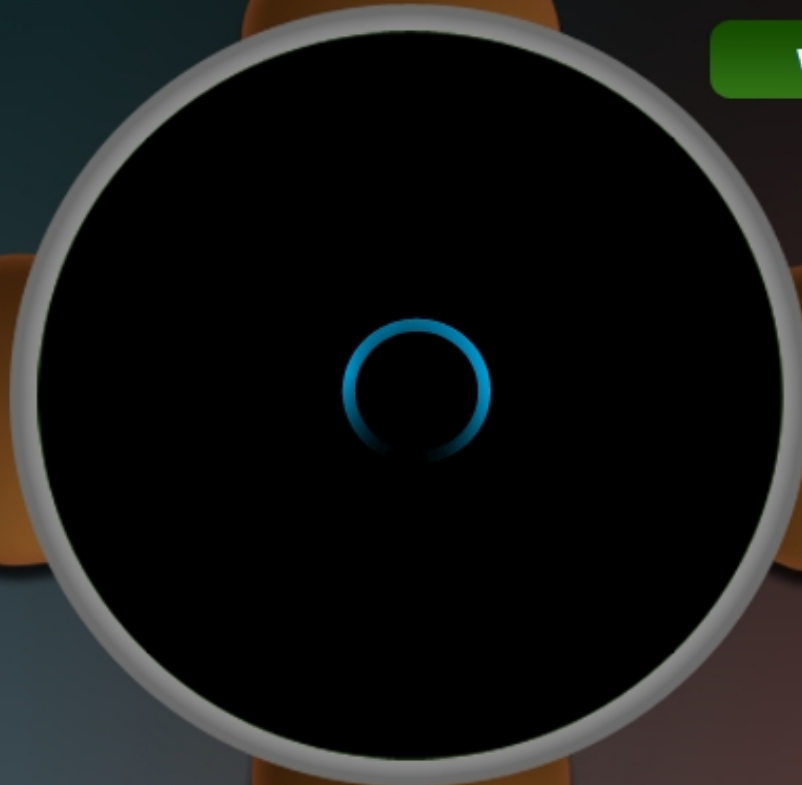
> SCORE

Waiting...



Waiting...

Waiting...





## &gt; SCORE

JohnDoe	0	0
Jack	0	0
Johnny	0	0
Danny	0	0

Score

Johnny

Cards on table

Jack

JohnDoe

Trump



Invalid card



# Thank you!



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