

Java Console Chat Application Documentation

Project Overview

The Java Console Chat Application is a console-based, multi-client chat program designed using Java's networking and multithreading capabilities. It supports real-time messaging between multiple clients via a central server.

Purpose

Demonstrate networking concepts (Sockets, Threads).

Real-time communication in console applications.

Features

- Multi-client chat support
- Username validation
- Server broadcast to all clients
- Graceful handling of client disconnects
- Command `/quit` to leave chat

Technologies Used

Language: Java

Concepts:

TCP Sockets

Multithreading

Input validation

Tools: JDK 8+, Terminal/Console

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