

Reactive Chat

Distributed Systems Paradigms Lab Guide 3

2021/2022

Reconsider the chat server to deal with abstract messages instead of raw bytes using reactive streams.

Steps

1. Define simple `Subscriber/Publisher` interfaces.
2. Implement a layer to wrap the selector as incoming and outgoing reactive streams.
3. Implement a layer to convert to and from strings.
4. Refactor the server to work on strings internally.

Questions

1. Can a reactive pipeline be used by multiple threads?

Learning Outcomes Understand the flow of data and back pressure in reactive streams. Organize event driven programs as layers to manage complexity and foster reuse.