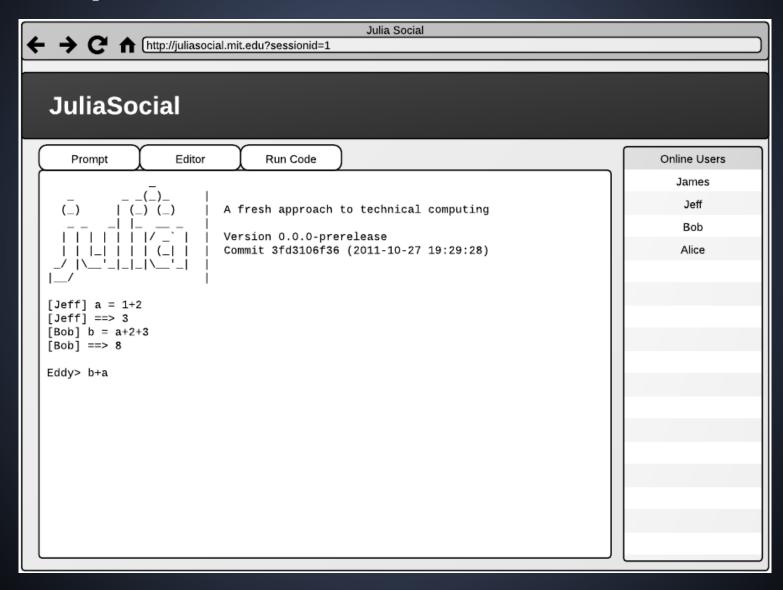
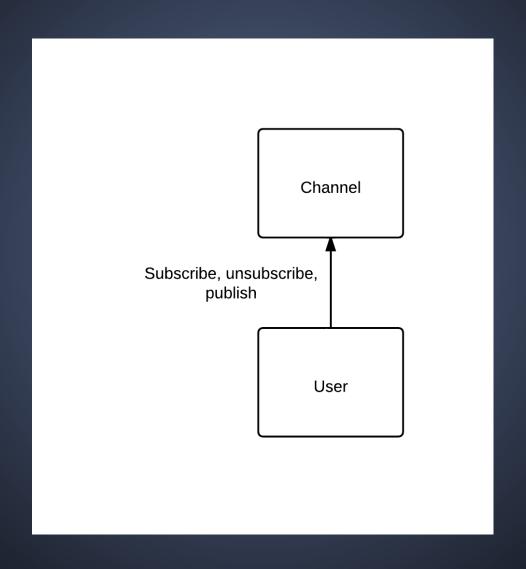
Social Coding A Case Study with Julia

Design

Mockup



Object Model



Implementation

Software stack

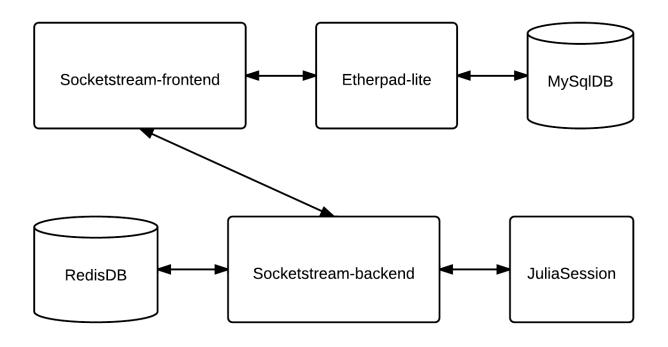
Socketstream Framework

- -NodeJS, server-side javascript
- -Coffeescript, syntactic sugar of javascript
- -Jade+Mustache template engine
- -Stylus, syntactic sugar of css
- -Socket.IO, websocket protocol with fallback
- -Scalable with ZeroMQ, a transport layer protocol
- -Redis DB, an open-source, networked, in-memory, key-value data store with optional durability

Etherpad-lite for IDE

-MySQLDB

Architecture



Library

jq-ui for ui elements
jq-console for the console
jq-ui-chatbox for the chatbox
jq-purr for notification
Stephan's Julia web design

Demo

The Julia Language

- Interactive Prompt
- Editor
- Documentation
- Julia Home

Quick Reference

For help, try one of these:

help() help(function) apropos("string")

Restart Julia

Welcome to Julia Social.
Your name is au.
au> 1+2+3
[au] 1+2+3
[au] ==> 6
au>

People Online

1 users online

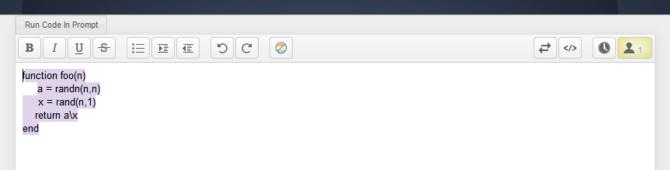
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People Online

1 users online

What's next?

Julia Syntax Parser
Multiple Rooms
Multiple Languages
Facebook/Twitter Integration
Julia Syntax Highlighting
Julia Mobile

Thank You

Professor Alan Edelman, Jeff Bezanson, Stephan Boyer, Julia developers and the class.

Questions, Suggestions, Comments?

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