

CSCI3055 Final Project

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Git Repository:

- https://github.com/stevenAvery/CSCI3055_Final_Project.git

Try Online:

- <http://159.203.45.249:8080/chat/roomName>
- bit.ly/1roEqHH

Problem Statement:

- Modern communication software provide barriers to entry, and unintuitive functionality that provide better long term experience, but can be cumbersome for short-term use.

Problem:

- For example:
 - unique accounts
 - managing friends lists
 - Slack teams

Languages Used:

Clojure:

- *Compojure*
- *Ring*
- *Http-kit*
- *Hiccup*

Clojurescript:

- *Domina*

Languages Used:

Clojure:

- *Compojure*: generates Ring request/response handlers with added routing capabilities.
- *Ring*: handles requests and response for web development.
- *Http-kit*: a minimal http server.
- *Hiccup*: allows representation of HTML in Clojure.

Clojurescript:

- *Domina*: provides DOM manipulation through the Google Closure library.

Alternatives:

Clojure:

- many alternative for server development, including:
 - PHP
 - Python with Django
 - Ruby on Rails
 - Server-Side Java
 - Node.js

Clojurescript:

- Javascript
- Dart

Alternatives:

Clojure:

- *Compojure*: Stray
- *Ring*: Aleph
- *Http-kit*: Webbit
- *Hiccup*: Enlive

Clojurescript:

- *Domina*: Dommy, Reagent

Build Tools:

Leiningen:

- Leiningen automatically builds clojure projects

```
lein cljsbuild once  
lein run
```

Code Walk

```
.  
+-- project.clj  
+-- resources/public  
|   +-- css  
|   +-- js  
+-- src  
    +-- clj/csci3055final/server  
    |   +-- chatHandler.clj  
    |   +-- handler.clj  
    |   +-- views.clj  
    +-- cljs/csci3055final/client  
        +-- core.cljs
```

Demo

Thanks