



SSTS Secure Chat



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Chat Client (Completed)

- Client will be coded in Java
- Should be able to connect to all available routes on the server
 - Register
 - Login
- Should be able to process the appropriate responses from the server
 - Receives response
 - Receives jwt from login

Chat Client (In Progress)

- Client will be coded in Java
- Should be able to connect to all available routes on the server
 - Send Message
 - Get Message
- Should be able to process the appropriate responses from the server
 - Message sent
 - List all messages in which you are either the “sender”, or the “receiver”
- Should be able to encrypt all communications
 - Red Tunnel
- Should be able to exchange keys in order to decrypt communications
 - Green Tunnel

Chat Server (Completed)

- Server runs on apache2 from aws
- Routes coded in php
- Returns relevant information in accordance with valid inputs
 - Register responds with status of register
 - Login returns with JWT on success
 - getMessage returns array of messages in which you are the “sender”, or “receiver”
 - sendMessage responds with “Message Sent!” on successful post
- All Registers hash the password with bcrypt using a random salt
- Logins will verify the password and if valid, give a JWT
- JWT will be used to indicate valid users

Test Run - Register

```
23  
24     Register reg = new Register("SSTS", "ssts@yahoo", "password");  
25     reg.Execute();  
26  
27
```

Problems @ Javadoc Declaration Console Progress

<terminated> Main [Java Application] C:\Program Files\Java\jre1.8.0_111\bin\javaw.exe (Dec 8, 2016, 12:41:40 PM)

POST ---
HTTP/1.1 200 OK
passed first if blockSuccess: A proper connection to MySQL was made! The my_db database is great.
Host information: Localhost via UNIX socket
Thanks for registering

Test Run - Login

```
30 Login log = new Login("SSTS", "password");|
31 token = log.Execute();
32
33 System.out.println(token);
34
```

Problems @ Javadoc Declaration Console Progress

<terminated> Main [Java Application] C:\Program Files\Java\jre1.8.0_111\bin\javaw.exe (Dec 8, 2016, 12:46:48 PM)

POST ---
HTTP/1.1 200 OK
passed first if blockSuccess: A proper connection to MySQL was made! The my_db database is great.
Host information: Localhost via UNIX socket
{"jwt": "eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzUxMiJ9.eyJpYXQiOiJEODEyMzAxMDYsImp0aSI6I1B1RXJhUXZOUlZWc3FKRlQzaUNSZk1c

The end