Actual control over chat information??

Chat application notes

--learn to setup chat server

--php?

--xmpp sits on top of Jabber for whatsapp

Links

--<https://www.youtube.com/watch?v=H_4UubWE9NQ>

--<https://github.com/hkp22/php-websocket-example>

npm Package development??

<https://medium.com/the-andela-way/build-and-publish-your-first-npm-package-a4daf0e2431>

# Over arching project

**Develop an npm Package that can allow two clients to communicate with each other through my server(VM).**

Step 1.

Develop a simple package that I can publish and import to an angular or ionic project

Step 2.

Deploy server and allow it to receive messages through web sockets/httpRequests (preferably Java)

Step 3.

Develop a package that has methods to send a message from the client to the server through a web socket/http request?? (needs to send all info required for a message (sender/receiver data))

Step 3.

Configure Server to handle Messages correctly (i.e.. pass onto another client, or initially just store message) store client info in database.. allow them to connect with other clients

Step 5.

If there is time add complexity (Authentication, users, etc….)

Create Account here.

<https://www.npmjs.com/signup>

To do… research on people building npm packages and using them in angular projects

Establish a connection with the websocket on the server

<https://javarevisited.blogspot.com/2015/06/how-to-create-http-server-in-java-serversocket-example.html>

Need to create a typescript Library

<https://itnext.io/step-by-step-building-and-publishing-an-npm-typescript-package-44fe7164964c>

<https://github.com/caki0915/my-awesome-greeter>

installing a typescript dependency in the npm package

npm install --save-dev typescript

see this for help

<https://github.com/taktik/typescript-http-client/blob/master/src/index.ts>

video for making a restFUl api

<https://www.youtube.com/watch?v=tcB3HZoy5N8>

watch later

<https://www.youtube.com/watch?v=0akfix87OdE>

using xmlHttpRequest (use this for function??)

<https://stackoverflow.com/questions/49014689/http-post-request-with-typescript>

more videos to watch

<https://www.youtube.com/watch?v=4K33w-0-p2c>

used this to make first get request api

<https://www.youtube.com/watch?v=4K33w-0-p2c&t=265s>

dependency injection tutorial/all possible research avenues on dependency injection

<https://itnext.io/typescript-dependency-injection-setting-up-inversifyjs-ioc-for-a-ts-project-f25d48799d70>

<https://dev.to/darcyrayner/typescript-dependency-injection-in-200-loc-12j7>

<https://www.inversionofcontrol.co.uk/injection-tokens-in-angular/>

Possible onto something here…

<https://stackoverflow.com/questions/54441904/dependency-injection-httpclient>

More research

<https://www.typescriptlang.org/docs/handbook/decorators.html>

<https://www.youtube.com/watch?v=2EdP5iBSxTY>

<https://www.youtube.com/watch?v=CB9ejEsmTZY>

Building an injector – turns out not to be necessary

<https://itnext.io/learn-dependency-injection-by-building-an-injector-fb48408af6a>

<https://github.com/deebloo/ts-kit/tree/master/packages/di/src/lib>

<https://blog.bitsrc.io/dependency-injection-using-decorators-77dd4c89968e>

building a request/post

<http://youmightnotneedjquery.com/#post>

server

<https://medium.com/@ssaurel/create-a-simple-http-web-server-in-java-3fc12b29d5fd>

Building the web server

<https://howtodoinjava.com/swagger2/swagger-spring-mvc-rest-example/>

<https://www.callicoder.com/spring-boot-websocket-chat-example/>

<https://www.javaguides.net/2019/06/spring-boot-angular-8-websocket-example-tutorial.html>

<https://www.youtube.com/watch?v=OK2Fn6k7pwo>

<https://www.toptal.com/java/stomp-spring-boot-websocket>

Spring without stomp

<https://www.devglan.com/spring-boot/spring-websocket-integration-example-without-stomp>

client side web socket setup

<https://www.youtube.com/watch?v=8CNVYWiR5fg>

<https://medium.com/@luukgruijs/understanding-creating-and-subscribing-to-observables-in-angular-426dbf0b04a3>

<https://blog.angulartraining.com/how-to-use-websockets-with-rxjs-and-angular-b98e7fd8be82>

<https://www.youtube.com/watch?v=8aGhZQkoFbQ>

<https://tutorialedge.net/typescript/angular/angular-websockets-tutorial/>

a book on typescript

<https://books.google.ie/books?hl=en&lr=&id=Uob1BAAAQBAJ&oi=fnd&pg=PT12&dq=Typescript&ots=81W6sLyD9n&sig=aduBs4mMJDl86v-LYif_49vRQN8&redir_esc=y#v=onepage&q=Typescript&f=false>

While building concurrency

<https://medium.com/angular-in-depth/the-mechanics-of-dom-updates-in-angular-3b2970d5c03d>

<https://angular.io/guide/displaying-data>

<https://stackblitz.com/angular/majmxmeqpqe?file=src%2Fapp%2Fapp.component.ts>

<https://angular.io/generated/live-examples/displaying-data/stackblitz>

<https://stackoverflow.com/questions/41106125/angular-2-using-this-inside-settimeout>

<https://www.tutorialspoint.com/typescript/typescript_arrays.htm>

<https://pusher.com/tutorials/chat-angular>

<https://blog.angulartraining.com/rxjs-subjects-a-tutorial-4dcce0e9637f>

docker

\*create an account on digital ocean.

<https://www.digitalocean.com/>

\*create a droplet

<https://hub.docker.com/u/cormacmchale>

\*app deployment and setup

<https://www.youtube.com/watch?v=RE2PLyFqCzE>

for building a docker Image of the app.

<https://www.docker.com/blog/build-your-first-docker-windows-server-container/>

Front end docker

<https://mherman.org/blog/dockerizing-an-angular-app/>

<https://medium.com/@wkrzywiec/build-and-run-angular-application-in-a-docker-container-b65dbbc50be8>