CCChat Documentation

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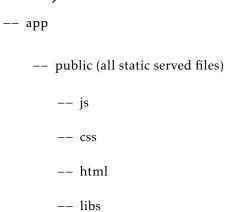
1 Node Modules (Serverside)

Module	Benefit
express	Web application framework that includes several useful features for web applications.
passport	Authentication middleware for session management.
socket.io	Realtime event-based bidirectional communication.
winston	Logger.
body-parser	Handles http post requests. Extracts body of http to req.body.
serve-favicon	Handles the requests from browsers for the favicon and caches the favicon.
handlebars	Builds semantic templates
mongoose	For MongoDB modeling
mocha	Testframework

2 Vendor Libraries (Clientside)

Library	Benefit
bootstrap	Responsive website programming for mobile-first implementation.
jQuery	Easier handling of javascript

3 Project Structure



- -- views (handlebar views)
- -- models (handles data, logic and storage of the app)
- -- controllers (defines the routes within the app)
- -- middleware (processes incoming requests before they are passed to the routes (loginauthentication))
- -- helpers (functionality and code shared in the whole app (regex- or renderoperations))
- -- tests (all tests for the application)

4 Documentation

modules The functionality of modules is described within a comment on top of the js-file.

functions Functions with complex implementations or unclear names (should never happen!) need a commentation Simpler functions are not commented to produce more readable code

variables Variables require clear and good naming, never comment a variable unless absolutely necessary. You should think a littel longer and find a better name.

5 Formatting

We use the Eclipse JS Formatter standart for our code.

6 SSL

6.1 Create certificate

```
openssl genrsa -out client-key.pem 2048
openssl req -new -key client-key.pem -out client.csr
openssl x509 -req -in client.csr -signkey client-key.pem -out client-cert.pem
```

6.2 Allow Certificate in browser for Dev

6.2.1 Chromium / Chrome 64

Option 1:

- 1. Go to Settings. Hit the "Advanced" button on bottom of the page
- 2. Click the "Manage certificates" button in the "Privacy and security" Tab
- 3. Click the "Authorities" Tab
- 4. Click on "Import"
- 5. Navigate to the cert file within your app source code folder.
- 6. Click open and allow what you want to allow

Option 2:

- 1. Open the side explitetly with the url "https://localhost:3000"
- 2. Click the advanced Button
- 3. Allow the certificate
- 4. Continue with Finish (see a little further down)
- 5. follow option 2 until point 3.
- 6. find your certificate in the list of authorities.
- 7. click expand on the certificate
- 8. click the 3 dots that appear under the certificate
- 9. click "edit"
- 10. allow what you want to allow

6.2.2 Firefox 59

- 1. Open the side explitetly with the url "https://localhost:3000"
- 2. Click the "Advanced" Button
- 3. Click "Add Exception"
- 4. Click "Confirm Security Exception"

- 7 Logger
- 8 Error Handling
- 9 Useful websites
 - Simple chat with socket.io
 - Handlebars
 - Combine Bootstrap and ReactJS
 - Mongoose
 - Example of secure chat in production
 - Add a SSL-Cert in Chrome