# **CCChat Documentation**

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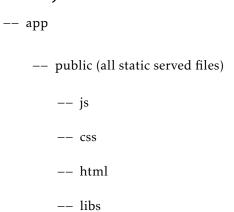
# 1 Node Modules (Serverside)

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.
reactjs	Helps to create user interfaces

# 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 Rules in documentation and formatting

#### 4.1 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 Logger
- 6 Error Handling
- 7 Useful websites
  - Simple chat with socket.io
  - Handlebars
  - Combine Bootstrap and ReactJS

- Mongoose
- Example of secure chat in production