System documentation for queueing\_app

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**For administrators**

[**https://github.com/ksvedal/queueing\_app.git**](https://github.com/ksvedal/queueing_app.git)

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# Quick setup and ports:

Most info about quick setup in README, but to quickly initialize project, install npm, enter the client folder and use the commands “npm build” -> “npm run serve”.

Ports used:

**BACKEND:** localhost:**42069**

**CLIENT:** localhost:**8080**

# Users

This application uses basic auth to communicate with the API.

Users does not yet have a connection to database.

Therefore, admins must use mock users for testing and navigating the application:

**Student:**

Username: “bob”

Password: “bob”

**Administrator:**

Username: “linda”

Password: “linda”

NOTE: Application behaves differently when different users are logged in.

These users can be used to navigate the application and works without setting up database. Some API-calls will not work as intended without the proper database setup.

# Testing

There has not been set up many tests yet, but they will come.

## Backend

Junit testing.

## Frontend

Jest testing.

To run all tests:

npm run test:unit

# Client architecture

Shown under is a map of the client, its services, its components and where they get routed to.

API and store calls are colour coded by the faded colours green, purple, yellow and orange.

The methods of the components are coloured by the services or store they access.

The fat brightly coloured arrows display what components/routes the user gets shown/routed to by what privileges they possess:

**ADMINISTRATOR**

**STUDENT**

**BOTH**

**NOT LOGGED IN/ALWAYS VISIBLE**

Timeline

Description automatically generated

# Backend architecture

## Class diagram

Class diagram of spring backend:

Diagram, engineering drawing

Description automatically generated

## Rest Mappings

The rest mappings are documented using Postman:

<https://documenter.getpostman.com/view/20349392/UVysywYu>

Overview of endpoints:

Graphical user interface

Description automatically generated with low confidence

# Database architecture

Architecture of database as visualized below:

Diagram

Description automatically generated

There’s also a view used by the queue portion of the app formatted like this

CREATE VIEW `queueing\_app`.`queue\_view` AS

SELECT

`queueing\_app`.`queue`.`id` AS `id`,

`queueing\_app`.`subject`.`subject` AS `subject`,

`queueing\_app`.`user`.`username` AS `username`,

`queueing\_app`.`queue`.`assignment` AS `assignment`,

`queueing\_app`.`queue`.`room` AS `room`,

`queueing\_app`.`queue`.`table` AS `table`,

`queueing\_app`.`queue`.`comment` AS `comment`

FROM

((`queueing\_app`.`queue`

LEFT JOIN `queueing\_app`.`subject` ON ((`queueing\_app`.`queue`.`subject\_id` = `queueing\_app`.`subject`.`id`)))

LEFT JOIN `queueing\_app`.`user` ON ((`queueing\_app`.`queue`.`user\_id` = `queueing\_app`.`user`.`id`)))