WebStudio

This is beta!

Currently, we are working on a web based studio for Odysseus servers. This studio can access many different servers.

See https://git.swl.informatik.uni-oldenburg.de/projects/API_APPS/repos/webstudio/browse for further information.

Webstudio

Official webclient for managing and organizing multiple Odysseus-Server.

Run with Docker

You need to have Docker Compose installed. It is shipped with Docker Desktop.

Run with official Images

You can run the Webstudio with the official images on Docker Hub. There are images for the frontend and for the backend.

You need to place the file docker-compose.yml under `docker-compose.yml` on your filesystem. After that you can run `docker-compose up` from an terminal in the directory you placed the `docker-compose.yml`. This will download all necessary images and will create an docker network to run the Webstudio. After the startup you can access the Webstudio on `http://localhost:4200/`.

If you checked out this repository you can also switch to folder deploy and just run `docker-compose up` from there.

Run in development

If you want to make changes to the source files and then run the Webstudio with Docker Compose, you just need to run `docker-compose up --build` from the root directory.
This will build the images for the backend and frontend based on the source files. You can edit the Dockerfiles for each and build your own images.
Please have a look at the official docker documentation for further information about docker.

Contribute information

The Webstudio consist of an backend and an frontend. See below for more informations on how to contribute.

Prerequisites

Node.js

To contribute an develop you need to have Node.js installed. Its recommended to use the last long time support (LTS) release (14.x) but its also tested with 12.x which is also an LTS release. Node.js is used to run the development server for frontend and backend. Node.js is shipped with the packet manager npm which is used to manage the dependecies of the Webstudio.

MongoDB

To persist the data the backend uses MongoDB. To install MongoDB locally follow the steps in the official documentation. The Webstudio was tested and developed with MongoDB 4.4 Community Edition.

Frontend

The frontend was generated with Angular CLI version 10.0.0.
Navigate to the folder `frontend` to execute the following commands.

Clear local storage

The frontend uses states which are persisted in the local storage of your browser. If you switch between Webstudio instances (eg. from production to development) you should clear the local storage of your browser to avoid errors.

Development server

The first time you have to run `npm install` to install the dependencies. If you use Windows you might have to run `npm install --unsafe-perm` if the process gets stuck.
If all dependencies are installed you can run `npm start` or `ng serve` for a dev server.
Navigate to `http://localhost:4200/`. The app will automatically reload if you change any of the source files.

Code scaffolding

Run `ng generate component component-name` to generate a new component. You can also use `ng generate directive|pipe|service|class|guard|interface|enum|module`.

Build

Run `ng build` to build the project. The build artifacts will be stored in the `dist/` directory. Use the `--prod` flag for a production build.

Running unit tests

Run `ng test` to execute the unit tests via [Karma](#).

Running end-to-end tests

Run `ng e2e` to execute the end-to-end tests via [Protractor](#).

Further help

To get more help on the Angular CLI use `ng help` or go check out the [Angular CLI README](#).

Backend

Navigate to the folder `backend` to execute the following commands.

Development server

The first time you have to run `npm install` to install the dependencies. If you use Windows you might have to run `npm install --unsafe-perm` if the process gets stuck.
If all dependencies are installed you can run `npm start` for a dev server. The app will automatically reload if you change any of the source files.

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