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General information of TAPscan

General information about TAPscan is provided with the earlier versions of TAPscan. Please have a look at the Wiki pages:

https://plantcode.cup.uni-freiburg.de/lab/wiki/personal:wilhelm9:other:tapscan_handover:overview

https://plantcode.cup.uni-freiburg.de/lab/wiki/personal:muehlich:manuals:tapscan_update_files

<https://plantcode.cup.uni-freiburg.de/lab/wiki/personal:finkeh:projects:tapscan>

Laravel 8

The new TAPscan Version is written in Laravel 8 see:

<https://laravel.com/docs/8.x>

Before installing TAPscan, look up the necessary dependencies of Laravel.

I'm using Sail as an local development environment. This will change if TAPscan goes live.

Bootstrap

Bootstrap is used as HTML "scaffolding":

<https://getbootstrap.com/docs/4.6/getting-started/introduction/>

mySQL

Database backend is mySQL. This database is heavily connected to to Laravel and most of the work can be done with Laravel on the database.

Use a database manager to get an overview of the data. I am using DBeaver.

Installing TAPscan

Create Database User and Database access

```
git clone git@github.com:hermsik/TAPscan-v4.git
# repo will change since this is my private one
cd TAPscan-v4.git
#fill in correct values .env and setup mysql connection with database and
user
./vendor/bin/sail up
./vendor/bin/sail artisan config:cache
./vendor/bin/sail artisan key:generate
./vendor/bin/sail composer update
./vendor/bin/sail npm install
./vendor/bin/sail npm run dev
```

You should now see a the webpage if you visit localhost 0.0.0.0

The first time you are running TAPscan and want to login, you have to create a master user. After creating this user the registration will not be working anymore, to restrict access.

General Files

If you first open the TAPscan folder you will see many files. I'm going over the important files and folders now:

Files

webpack.mix.js

Combines different CSS/JS files into one compiled file

package.json

Packages of libraries are listed here.

composer.json

Packages for the composer commands

.env

Important environment variables, like database access, what database system, server ip

Folders

storage/app/public/

Files that can be download are here

routes

Tells Laravel which URL can be accessed and what they do. Especially web.php is the important one and contains all the logic of the webpage.

resources/views

Contains all the template views in the blade language that are accessed. Subfolders for different websites.

database/migrations

Contains all the logic, that creates the tables in the mysql database.

app/Exports

Some logic about exporting files

app/Http/Controllers

As the name suggests, they control the logic of the pages that you visit. Here you will find most the stuff that happens on the page.

app/Http/Imports

Database import logic when uploading the TAPscan output files.

app/Http/Models

"Models" of the database tables that can be manipulated and connected

app/Http/Tables

The tables you see on the website are created here. This is made with a external library.