

# Scraper Doku

Web Scraper to request data that is not provided through an API

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## Getting Started

These instructions will get you a copy of the project up and running on your local machine for development and testing purposes.

### Prerequisites

You will need a current version of `[_node_ & _npm_]`(<https://nodejs.org/en/>).

### Installing

After cloning the repository, install the dependencies. You can then run the project.

```
# install dependencies
npm install

# serve at localhost:8000
npm start
```

## Overview

The bot is basically a `_Node_ - _Express_ -Backend`. Incoming requests are checked and specifically handled.

## Structure

The bot is separated into two files. `index.js` contains the fundamental logic. At the moment there is only one resource but we expect to expand this with more resources. A resource is represented by a `_route_`. If the user request the lists of study rooms at our university, the script notices the request at the specified route and prepares a `_JSON_` response.

The second script, `scrape.js`, takes care of the actual web scraping. The given URL is requested with `_axios_` and then parsed with `_cheerio_`.

## Functionalities

### Study Rooms

When the resource is requested we scrape the [ASTA Website](<https://asta.studis-bht.de/service/lernraeume/>) and try to return a list of available rooms, that are provided for students, from our university.

## Further Development

Add a new route for every resource in `index.js` and prepare functions in `scrape.js` to scrape the requested data from given Websites.

## Built With

- [Node.js](<https://nodejs.org/en/>)
- [Express.js](<https://expressjs.com/>)
- [Axios](<https://github.com/axios/axios>)
- [Cheerio](<https://github.com/cheeriojs/cheerio>)

## Versioning

We use [SemVer](<http://semver.org/>) for versioning. For the versions available, see the [tags on this repository](<https://github.com/T0biWan/scrape-js/tags>).

## Authors

- **Tobias Klatt** - `_Initial work_` - [GitHub](<https://github.com/T0biWan/>)

See also the list of [contributors](<https://github.com/T0biWan/scrape-js/graphs/contributors>) who participated in this project.

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