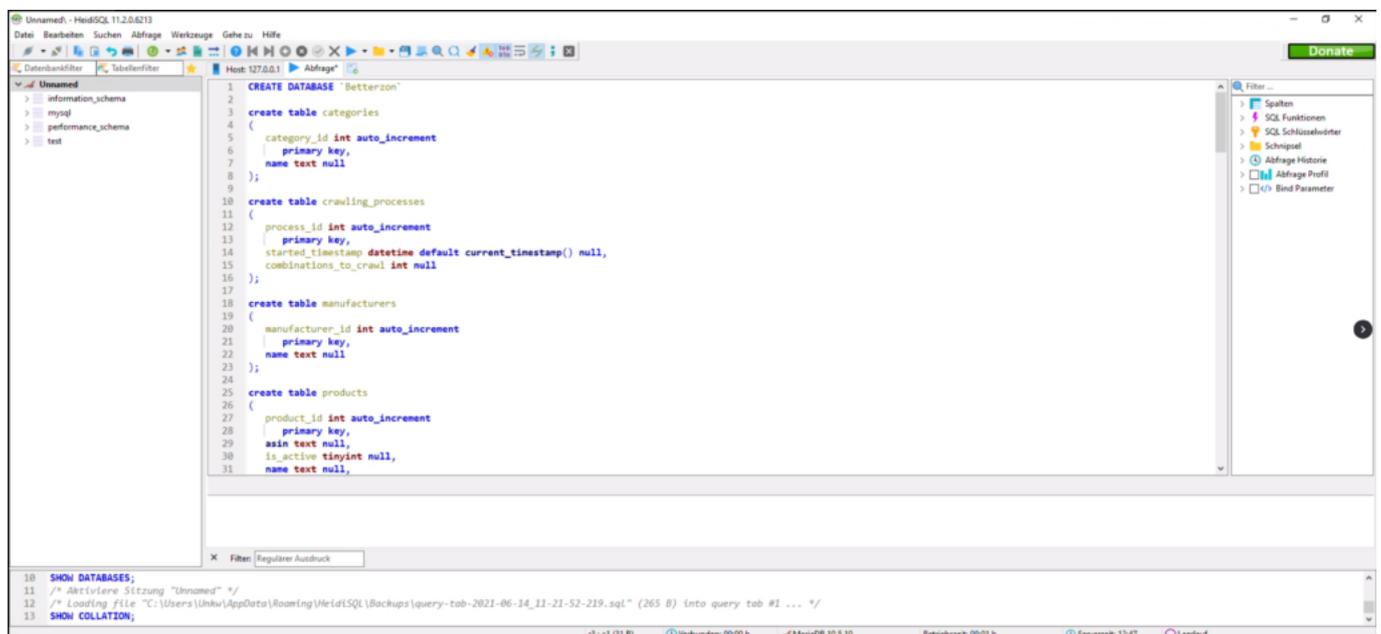


We would suggest running at least the backend in linux (or via wsl under windows) in order to prevent issues with npm under windows.

Install mariaDB: [Tutorial](#)

Be sure to leave the port set to 3306. Also, we assume the username and password to be root. If you choose to use a different username or password, make sure to remember these in one of the next steps.

Create the required database and tables with [this](#) SQL script. For this, you can use software like DataGrip or HeidiSQL (See screenshot below).



The screenshot shows the HeidiSQL interface with a SQL script loaded. The script creates a database named 'betterzon' and four tables: 'categories', 'crawling_processes', 'manufacturers', and 'products'. The 'categories' table has columns 'category_id' (auto-increment, primary key) and 'name' (text, null). The 'crawling_processes' table has columns 'process_id' (auto-increment, primary key), 'started_timestamp' (datetime, default current_timestamp(), null), and 'combinations_to_crawl' (int, null). The 'manufacturers' table has columns 'manufacturer_id' (auto-increment, primary key) and 'name' (text, null). The 'products' table has columns 'product_id' (auto-increment, primary key), 'asin' (text, null), 'is_active' (tinyint, null), and 'name' (text, null). The interface also shows a left sidebar with a database tree and a right sidebar with a filter menu.

```
1 CREATE DATABASE `betterzon`
2
3 create table categories
4 (
5   category_id int auto_increment
6   primary key,
7   name text null
8 );
9
10 create table crawling_processes
11 (
12   process_id int auto_increment
13   primary key,
14   started_timestamp datetime default current_timestamp() null,
15   combinations_to_crawl int null
16 );
17
18 create table manufacturers
19 (
20   manufacturer_id int auto_increment
21   primary key,
22   name text null
23 );
24
25 create table products
26 (
27   product_id int auto_increment
28   primary key,
29   asin text null,
30   is_active tinyint null,
31   name text null,
```

Install node & npm:

```
→ Desktop sudo apt install npm
```

Download the code:

```
→ Desktop git clone https://github.com/Mueller-Patrick/Betterzon
Cloning into 'Betterzon'...
remote: Enumerating objects: 2263, done.
remote: Counting objects: 100% (539/539), done.
remote: Compressing objects: 100% (316/316), done.
remote: Total 2263 (delta 333), reused 347 (delta 219), pack-reused 1724
Receiving objects: 100% (2263/2263), 4.01 MiB | 11.31 MiB/s, done.
Resolving deltas: 100% (1400/1400), done.
```

Switch into the Betterzon folder:

```
→ Desktop cd Betterzon
→ Betterzon git:(develop)
```

Switch to the backend folder and create the .env file:

```
→ Betterzon git:(develop) cd Backend
→ Backend git:(develop) vim .env
```

Enter the following values (we use standard username and password, don't do this in a production environment!)

```
PORT=7001
DB_HOST=localhost
DB_USER=root
DB_PASSWORD=root
DB_DATABASE=Betterzon
```

Install node modules, compile the typescript code and start the backend server:

```
npm i
npm run webpack
npm run start
```

```
→ Backend git:(develop) ✖ npm run start  
> Backend@1.0.0 start /home/paddy/Desktop/Betterzon/Backend  
> node dist/index  
  
Listening on port 7001
```

In the frontend, you can either use our backend (No adjustments needed and you already have data) or you can switch to your own backend server. To switch to your own server, you need to adjust the `apiUrl` variable under `Frontend/src/app/services/api.service.ts`. To use your own backend, it needs to be `http://localhost:7001`

```
cd ../Frontend  
npm i  
npm run start
```

At this point, everything should work and you can use the application in your browser under

`http://localhost:4200`

The screenshot shows a web browser window with the address bar displaying 'localhost:4200'. The website header is dark blue and contains the logo 'BETTERZON', a search bar, and navigation links: 'TOP-GESUCHTE', 'ÜBER UNS', 'UNSERE KUNDEN', 'ANMELDEN', and 'KONTO ERSTELLEN'. Below the header is a teal banner. The main content area features a section titled 'TOP-ANGEBOTE' with three product cards:

- Neues Apple iPhone 12 Pro (512 GB) - Graphit**
Amazon: ~~699,00\$~~
Plantshub: 599,00\$
- Theoretische Informatik für Dummies (Deutsch) Taschenbuch - 11. September 2019**
Amazon: ~~699,00\$~~
Plantshub: 599,00\$
- Neues Apple iPad Pro (11", Wi-Fi, 128 GB) - Space Grau (2. Generation)**
Amazon: ~~699,00\$~~
Plantshub: 599,00\$

At the bottom, a black cookie consent banner reads: 'This website uses cookies to ensure you get the best experience on our website. [Learn more](#) [Privacy Policy](#)'. It includes buttons for 'Decline' and 'Allow cookies'.