#### **Back-End Development**

# Connecting #14 Strapi & Mongo DB







- The most advanced Node.js Content Management Framework (Headless CMS) to build powerful API with no effort.
- Before you go any further, ensure these technologies are installed on your computer:

Node.js at least v9.0.0 NPM at least v5.0.0 MongoDB at least v3.4

■ More info: <a href="https://strapi.io">https://strapi.io</a>



# **#1 Activate MongoDB Server**

Open terminal:

```
$ cd C:\Program Files\MongoDB\Server\3.6\bin
$ mongod -dbpath C:\data\db //jika belum//
$ mongod
```

- If OK, it will show "Waiting for connections on port 27017". Then open new terminal:
- \$ cd C:\Program Files\MongoDB\Server\3.6\bin
- \$ mongo



# #2 Create Db, User & Collection

Membuat db strapi\_db:

```
$ use strapi_db
```

Membuat db user:

```
$ db.createUser({user:"lintang",
pwd:"1234", roles:["readWrite",
"dbAdmin"]});
```

■ Membuat collection "karyawan":

```
$ db.createCollection('karyawan')
```





# **#3 Setup Strapi**

#### Install Strapi CLI:

```
$ npm install strapi@alpha -g
$ strapi -v
```

#### Create Strapi project:

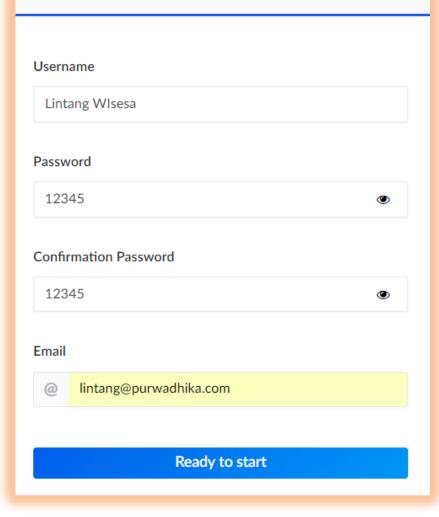
```
$ strapi new lin_strapi
```

- ✓ Choose your database: MongoDB (recommended)
- ✓ Database name: strapi\_db
- ✓ Host: 127.0.0.1
- ✓ Port: *27017*
- ✓ Username: Lintang
- ✓ Password: 1234



#### Welcome!

To finish setup and secure your app, please create the first user (root admin) by entering the necessary information below.



## **#4 Launch Server** then Create User

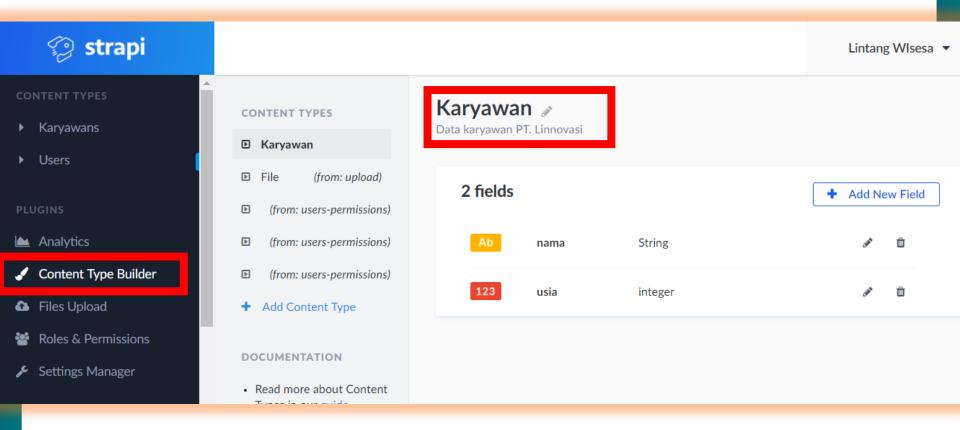
Enter project dir then launch the server:

Then open administration panel on browser (localhost:1337/admin) to create the first user!



## **#5 Create Content Type**

From Content Type Builder menu, create a content type (model) with several fields (props). Eg: Content: Karyawan with Fields: Nama (string) & Usia (number)

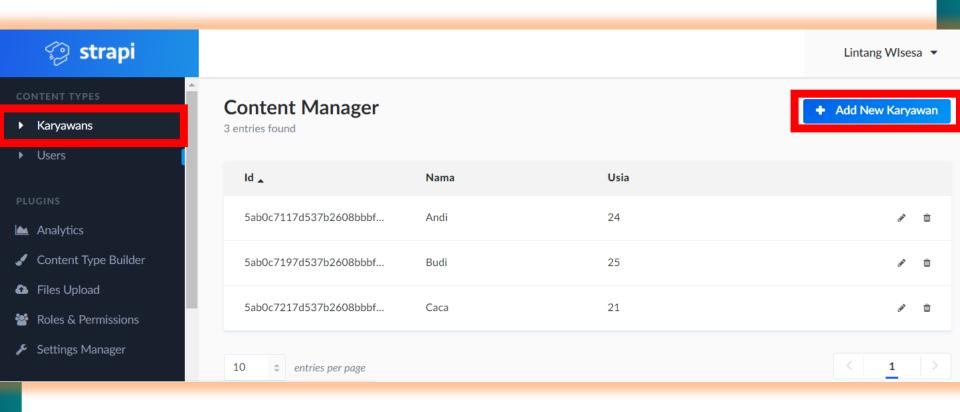




#### Add some data to Karyawan:

Nama: Andi, Usia: 24 Nama: Budi, Usia: 25 Nama: Caca, Usia: 21

# #6 Add Data to Content Type

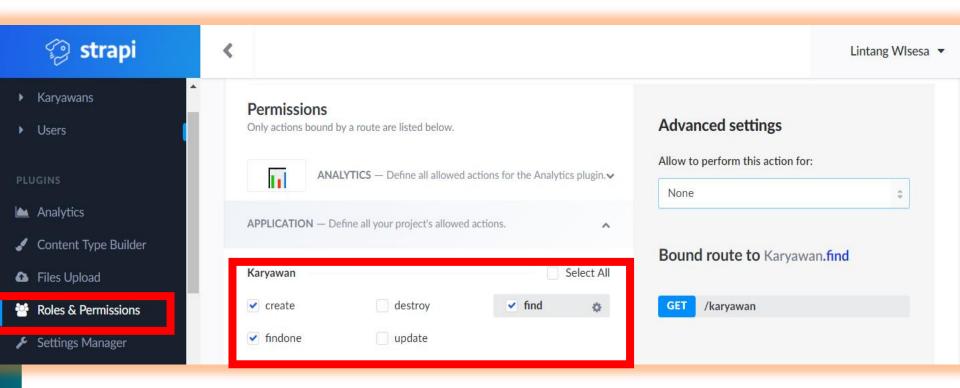




### **#7 Allowing API Access**

■ From *Roles & Permissions*, click *Public* then select allowed actions.

Create - POST
Findone - GET :id
Destroy - DELETE
Update - PUT
Find - GET





- A powerful GUI platform to make API development faster & easier, from building API requests through testing, documentation & sharing.
- Postman has features for every API developer: request building, tests & pre-request scripts, variables, environments & request descriptions, designed to work seamlessly together.
- Download from *getpostman.com*

Try to POST & GET with POSTMAN!



#### #8 GET data

■ With Postman, try to GET data from Strapi API:

```
GET http://localhost:1337/karyawan
GET http://localhost:1337/karyawan?nama=Andi
GET http://localhost:1337/karyawan?usia_gte=22
GET http://localhost:1337/karyawan?_sort=nama:desc
GET http://localhost:1337/karyawan?_limit=30
```



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