# **Technical Documentation for Clac des Doigts (English Version)**

Product Name: Rest API - Chicken using Node.js , Express server, and MySql Product version: node.js version v16.17.1, MySql phpmyadmin v 5.2.0

Code Editors used: Visual Studio code and PhpMyadmin

Packages Required for the Node.js Backe	nd:
☐ Bcrypt	
☐ Body-parser	
□ Dotenv	
☐ Express	
☐ Jsonwebtoken	

mysql2

Dev dependencies: nodemon

Testing: Postman.com Date: 18/06/2023

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#### **Product Overview:**

This product is designed for the company Clac des Doigts as a test project for the interview.

#### **Product Objective:**

The objective of the API is to receive requests and responses from the Chicken table in the farm database. The product is also extended to receive the data from the Cage table in the farm database.

The product is already developed as a public API. But it can be upgraded to private API with a key authentication for user login if it is required.

#### **Product Testing on Local Machine:**

- Download the farm.sql database file on GitHub and import it into your local MySql server
- 2. Get the database credentials and replace them in **config.database.js**(Username, password, port) in the source code.
- 3. Run **npm install** on your code editor to install the recommended packages and dev dependencies to run the backend.

#### Procedure:

Create the Database using MySQL

Database name: farm

Table names: chicken, cages, sections

• Entity Relationship Diagram

First I have defined the relationships of the tables. There is a relation between chicken table and cage

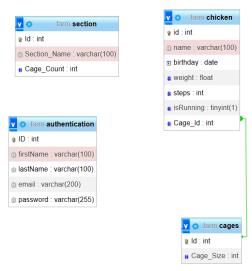


table as defined in this ERP diagram

#### **Routing:**

### **Create chickens**

#### http://localhost:5000/webservice/chicken/create

```
Req: POST
Ex: Body -> row , type :json {
"name": "chickenTest15",
"birthday": "2022-08-09",
"weight": 2.3,
"steps": 1,
"isRunning": 0,
"Cage_Id": 2
}
```

#### **Get chickens**

#### http://localhost:5000/webservice/chicken

# Req: GET

```
"steps": 0,
    "isRunning": 1,
    "Cage_ld": 5
},
{
    "id": 14,
    "name": "chickenTest14",
    "birthday": "2022-03-31T22:00:00.000Z",
    "weight": 2.3,
    "steps": 2,
    "isRunning": 0,
    "Cage_ld": 2
},
```

### Get chicken by ID

http://localhost:5000/webservice/chicken/11

```
Req: GET{ID}
```

```
Res:
{
    "success": 1,
    "data": {
        "id": 15,
        "name": "chickenTest15",
        "birthday": "2022-08-08T22:00:00.000Z",
        "weight": 2.3,
        "steps": 1,
        "isRunning": 0,
        "Cage_ld": 2
    }
}
```

### **Update chicken**

http://localhost:5000/webservice/chicken/update

Req: PATCH

```
Ex:Body -> row , type :json
{"id": 12,
"name": "chickenTest12",
"birthday": "2023-05-01T22:00:00.000Z",
"weight": 1.5,
"steps": 0,
"isRunning": 1,
"Cage_Id": 5}
```

#### **Delete Chicken**

http://localhost:5000/webservice/chicken/delete

**Req: DELETE** 

```
EX: Body -> row, type:json {
"id":15
}
```

## **Update chicken steps**

http://localhost:5000/webservice/chicken/run

```
Req: PATCH
Ex: Body -> row, type:json {
"id":16
}
```

## Get the Number of chickens in a cage by cage id

http://localhost:5000/webservice/chicken/chickenCount/2

```
Req: GET {Cage_id}
```

#### **Product Release:**

Github

### **Product Future development**:

Can be implemented with user login to restrict unauthorized access by generating a token to access the chicken API.