

# 1.Prepare database:

There are two ways to do the database preparation. The first way is that you could choose to directly dump the database **walkthru**. There will be altogether two users in table

**user\_information:**

id	email	password_hash	admin
1	not-web@gmail.com	\$2b\$12\$Sx/3N/7/Mtuq1DFnz1RbpuXRhPtfnk8exH6FQsSRTYZ1Z7TDXu3u	not-web
2	web@gmail.com	\$2b\$12\$MSGYn0Am0Wgk5VPZvUA9ne0YfUQlKRL0Kuq7Cey8.R/cnFlbXtriW	web

The first of them is a user who has a web type and the second one has a not-web type. The id is primary key, email is string, password\_bash is their hashed password and the admin is a enum type which only has 'not-web and web type'. Both of them have password: 123. You could directly use these two users in future API's.

If you want to do the migration, you need to first create database **walkthru** and then run the command: knex migrate:latest. Then you will get an empty **user\_information** table as follow:

Column	Type	Modifiers
id	integer	not null default nextval('user_information_id_seq'::regclass)
email	character varying(255)	not null
password_hash	character varying(255)	not null
admin	text	not null

Indexes:

"user\_information\_pkey" PRIMARY KEY, btree (id)

Check constraints:

"user\_information\_admin\_check" CHECK (admin = ANY (ARRAY['web'::text, 'not-web'::text]))

**Notice: The database is empty.**

## 2.Play with API's

**Notice: The examples are for the first way of preparing the database which is directly dumping the database.**

1.ALL-USER API:

a. GET /

Since it is very easy, I just create a very simple API for all users. If you run 'GET localhost:3000/' in postman, it will give back 'Hello World'.

b. POST /signup

It needs a json with email, password, and admin('web', or 'not-web'). If you POST a user with other admin type, it will send you back the error. An example is:

```
{
  "email": "web@gmail.com",
  "password": "123",
  "admin": "web"
}
```

## 2.ALL-AUTHENTICATED-USER API:

### a. POST /getToken

It will give your authentication token if you are an authenticated user.

Given those two users in our table, you could run as follow:

```
{  
  "email": "web@gmail.com",  
  "password": "123",  
}
```

It will give you back a token like this:

```
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpZCI6ImiwiaWF0IjoxNTM1OTIzMzg0fQ.hU-  
rU5hu9OIToxNUTW2SUpi3QzERQgGrpHozgf9d7Mg
```

## 3.ONLY-WEB-USER API:

### a. POST /getWebToken

It will give your authentication token if you are an authenticated user who has a web type. If you are not-web type for admin, it will give you result as: I can not authorize you since your admin is web.

Example:

```
{  
  "email": "not-web@gmail.com",  
  "password": "123"  
}
```

and

```
{  
  "email": "web@gmail.com",  
  "password": "123"  
}
```