

App requests and bodies

In order for the correction to work properly, you should follow this guide to understand how requests should be made and how the app should respond.

Register & Login

Register

```
# Request
curl -s -X POST http://localhost:3000/api/auth/register \
  -H "Content-Type: application/json" \
  -d '{
    "username": "nuwe",
    "email": "nuwe@example.com",
    "password": "testpassword12#"
  }' | jq
```

```
{
  "success": true,
  "message": "User successfully registered"
}
```

Responses for existing username or email:

```
{
  "success": false,
  "message": "The username already exists"
}

{
  "success": false,
  "message": "Email already exists"
}
```

Login

```
# Request
curl -s -X POST http://localhost:3000/api/auth/login \
  -H "Content-Type: application/json" \
```

```
-d '{
  "usernameOrEmail": "nuwe",
  "password": "testpassword12#"
}' | jq
```

```
{
  "accessToken":
"eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiIyIiwiaWF0IjoxNzQxMzI0MzcwLCJleHAiOiJlE3NDEzMjc5NzB9.1T6-
H1VhedNzQxCSMnbsoupqYQPe8klXB1aiVfBJSI4IoAfRZfZd4u_4Jrilj4DzRXCbZCevsbTJNcFy3vvB1g"
,
  "tokenType": "Bearer"
}

{
  "success": false,
  "error": "Unauthorised: Bad credentials"
}
```

Session

```
# Request
curl -s -X GET http://localhost:3000/api/user/me \
  -H "Authorization: Bearer
eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiIyIiwiaWF0IjoxNzQxMzI0MzcwLCJleHAiOiJlE3NDEzMjc5NzB9.1T6-
H1VhedNzQxCSMnbsoupqYQPe8klXB1aiVfBJSI4IoAfRZfZd4u_4Jrilj4DzRXCbZCevsbTJNcFy3vvB1g"
| jq
```

```
{
  "id": 1,
  "username": "nuwe",
  "email": "nuwe@example.com"
}
```

Response for invalid JWT Token:

```
{
  "success": false,
  "error": "Unauthorised: Full authentication is required to access this resource"
}
```

Scraping

In this case, the property must not be stored in the database:

```
# Request
curl -s -X POST http://localhost:3000/api/scrape \
  -H "Content-Type: application/json" \
  -d '{"url": "https://www.idealista.com/inmueble/104498284/", "store": false}' | jq
```

```
{
  "data": {
    "fullTitle": "Casa o chalet independiente en venta en Las Rozas",
    "rooms": "9 hab.",
    "size": "361 m²",
    "price": "680.000",
    "location": "Campoo-Los Valles, Cantabria",
    "type": "Casa",
    "url": "https://www.idealista.com/inmueble/104498284/"
  },
  "saved": false
}
```

In this case, the property must be stored in the database:

```
# Request
curl -s -X POST http://localhost:3000/api/scrape \
  -H "Content-Type: application/json" \
  -d '{"url": "https://www.idealista.com/inmueble/104498284/", "store": true}' | jq
```

```
{
  "data": {
    "fullTitle": "Casa o chalet independiente en venta en Las Rozas",
    "rooms": "9 hab.",
    "size": "361 m²",
    "price": "680.000",
    "location": "Campoo-Los Valles, Cantabria",
    "type": "Casa",
    "url": "https://www.idealista.com/inmueble/104498284/"
  },
  "saved": true
}
```

Employment Data & Mortgage system

Employment Data

Request

```
curl -s -X POST http://localhost:3000/api/employment \
  -H "Content-Type: application/json" \
  -H "Authorization: Bearer
eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiIyIiwiaWF0IjoxNzQxMzI0MzcwLCJleHAiOjE3NDEzMjc5NzB9.1T6-
H1VhedNzQxCSMnbsoupqYQPe8klXB1aiVfBJSI4IoAfrZfZd4u_4Jrilj4DzRXCbZCevsbTJNcFy3vvB1g"
\
  -d '{"contract": "indefinite", "salary": 1000000}' | jq
```

```
{
  "employmentData": {
    "id": 1,
    "user": {
      "id": 1,
      "username": "nuwe",
      "email": "nuwe@example.com"
    },
    "contract": "indefinite",
    "salary": 1000000,
    "netMonthly": 43674.7,
    "employmentStatus": "employed"
  },
  "message": "Employment data updated successfully"
}
```

Request

```
curl -s -X PATCH http://localhost:3000/api/employment \
  -H "Content-Type: application/json" \
  -H "Authorization: Bearer
eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiIyIiwiaWF0IjoxNzQxMzI0MzcwLCJleHAiOjE3NDEzMjc5NzB9.1T6-
H1VhedNzQxCSMnbsoupqYQPe8klXB1aiVfBJSI4IoAfrZfZd4u_4Jrilj4DzRXCbZCevsbTJNcFy3vvB1g"
\
  -d '{"salary": 50000}' | jq
```

```
{
  "employmentData": {
    "id": 2,
```

```

    "user": {
      "id": 2,
      "username": "nuwe",
      "email": "nuwe@example.com"
    },
    "contract": "indefinite",
    "salary": 50000,
    "netMonthly": 2983.09,
    "employmentStatus": "employed"
  },
  "message": "Employment data updated successfully.",
  "success": true
}

```

```

# Request
curl -s -X PATCH http://localhost:3000/api/employment \
  -H "Content-Type: application/json" \
  -H "Authorization: Bearer eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiIyIiwiaWF0IjoxNzQxMzI0MzcwLCJleHAiOjE3NDEzMjc5NzB9.1T6-H1VhedNzQxCSMnbsoupqYQPe8k1XB1aiVfBJSI4IoAfrZfZd4u_4Jrilj4DzRXCBzCevsbTJNcFy3vvB1g" \
  -d '{"contract": "temporary"}' | jq

```

```

{
  "employmentData": {
    "id": 2,
    "user": {
      "id": 2,
      "username": "nuwe",
      "email": "nuwe@example.com",
      "password": "$2a$10$aNQg0JmcZe96XKZyxERMwOSQkXReyy0ITmL00KbFtXvRyCHIXf1li"
    },
    "contract": "temporary",
    "salary": 50000,
    "netMonthly": 2983.09,
    "employmentStatus": "employed"
  },
  "message": "Employment data updated successfully.",
  "success": true
}

```

Mortgage request

```
# Request
curl -s -X POST http://localhost:3000/api/mortgage \
  -H "Content-Type: application/json" \
  -H "Authorization: Bearer eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiIyIiwiaWF0IjoxNzQxMzI0MzcwLCJleHAiOjE3NDEzMjc5NzB9.LT6-H1VhedNzQxCSMnbsoupqYQPe8klXB1aiVfBJSI4IoAfRZfZd4u_4Jrilj4DzRXCbZCevsbTJNcFy3vvB1g" \
  -d '{"propertyId": 1, "years": 20}' | jq
```

```
{
  "approved": true,
  "mortgageId": 1,
  "netMonthly": 43674.7,
  "monthlyPayment": 3956.01,
  "allowedPercentage": "30.0%",
  "message": "Mortgage approved.",
  "numberOfMonths": 240
}
```

Errors:

```
{
  "success": false,
  "error": "Minimum mortgage term is 15 years."
}

{
  "success": false,
  "error": "Missing financial information. Please update your employment data."
}

{
  "success": false,
  "error": "Property is unavailable for mortgage."
}

{
  "approved": false,
  "netMonthly": 5337.5,
  "monthlyPayment": 3956.01,
  "allowedPercentage": "15.00%",
  "message": "Mortgage rejected. The monthly payment exceeds the allowed percentage"
```

```
of your net income."
}
```

User dashboard

```
# Request
curl -s -X GET http://localhost:3000/api/user/dashboard \
  -H "Authorization: Bearer
eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiIyIiwiaWF0IjoxNzQxMzI0MzcwLCJleHAiOjE3NDEzMjc5NzB9.L
T6-
H1VhedNzQxCSMnbsoupqYQPe8klXB1aiVfBJSI4IoAfRZfZd4u_4Jrilj4DzRXCbZCevsbTJNcFy3vvB1g"
| jq
```

```
{
  "mortgages": [
    {
      "id": 1,
      "property": {
        "id": 2,
        "name": "Casa",
        "location": "Campoo-Los Valles, Cantabria",
        "price": 680000,
        "size": "361 m²",
        "rooms": "9 hab.",
        "availability": "Unavailable"
      },
      "user": {
        "id": 2,
        "username": "nuwe",
        "email": "nuwe@example.com"
      },
      "monthlyPayment": 3956.01,
      "numberOfMonths": 240
    }
  ],
  "employmentData": {
    "id": 2,
    "user": {
      "id": 2,
      "username": "nuwe",
      "email": "nuwe@example.com"
    },
    "contract": "temporary",
    "salary": 100000,
  }
}
```

```
    "netMonthly": 43674.7,
    "employmentStatus": "employed"
  }
}
```

Auctions

Create

```
# Request
curl -s -X POST http://localhost:3000/api/auction/create \
-H "Content-Type: application/json" \
-d '{
  "propertyId": 1,
  "startTime": "2025-03-07T10:00:00",
  "endTime": "2025-03-07T11:00:00",
  "minIncrement": 1000,
  "startingPrice": 335000
}' | jq
```

```
{
  "message": "Auction created successfully.",
  "auctionId": 1,
  "success": true
}
```

Errors:

```
{
  "success": false,
  "error": "Property not found."
}

{
  "success": false,
  "error": "Property is not available."
}
```

Bid

```
curl -s -X POST http://localhost:3000/api/auction/1/bid \
-H "Content-Type: application/json" \
```



```
-H "Authorization: Bearer  
eyJhbGciOiJIUzUxMiJ9.eyJzdWIiOiIyIiwiaWF0IjoxNzQxMzI0MzcwLCJleHAiOjE3NDEzMjc5NzB9.1  
T6-  
H1VhedNzQxCSMnbsoupqYQPe8klXB1aiVfBJSI4IoAfrZfZd4u_4Jr1lj4DzRXCbZCevsbTJNcFy3vvB1g"  
\n  
-d '{"bidAmount": 500000}' | jq
```

```
{  
  "success": true,  
  "message": "Bid submitted successfully."  
}
```

Errors:

```
{  
  "success": false,  
  "error": "Bid amount must not exceed the established minimum increase."  
}  
  
{  
  "success": false,  
  "error": "Auction is closed."  
}
```

Close auction

```
curl -s -X PATCH http://localhost:3000/api/auction/1/close | jq
```

```
{  
  "winningBid": 510000,  
  "success": true,  
  "winningUserId": 1,  
  "message": "Auction closed successfully."  
}
```

Remember that the bids must go through RabbitMQ and the correction will check that this is the case.

Database info

Tables

```

+-----+
| Tables_in_realestate |
+-----+
| auctions              |
| bids                  |
| employment_data       |
| mortgages             |
| properties            |
| users                 |
+-----+

```

Auctions

```

+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| id             | bigint        | NO   | PRI | NULL    | auto_increment |
| current_highest_bid | decimal(10,2) | YES  |     | NULL    |                |
| end_time       | datetime(6)   | YES  |     | NULL    |                |
| min_increment  | decimal(10,2) | YES  |     | NULL    |                |
| start_time     | datetime(6)   | YES  |     | NULL    |                |
| starting_price | decimal(10,2) | YES  |     | NULL    |                |
| status         | varchar(255)  | YES  |     | NULL    |                |
| property_id    | bigint        | NO   | UNI | NULL    |                |
+-----+-----+-----+-----+-----+-----+

```

Bids

```

+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| id         | bigint        | NO   | PRI | NULL    | auto_increment |
| bid_amount | decimal(10,2) | YES  |     | NULL    |                |
| timestamp  | datetime(6)   | YES  |     | NULL    |                |
| auction_id | bigint        | NO   | MUL | NULL    |                |
| user_id    | bigint        | NO   | MUL | NULL    |                |
+-----+-----+-----+-----+-----+-----+

```

Employment data

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
contract	varchar(255)	YES		NULL	
employment_status	varchar(255)	YES		NULL	
net_monthly	decimal(10,2)	YES		NULL	
salary	decimal(10,2)	YES		NULL	
user_id	bigint	NO	UNI	NULL	

Mortgages

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
monthly_payment	decimal(10,2)	YES		NULL	
number_of_months	int	NO		NULL	
property_id	bigint	NO	MUL	NULL	
user_id	bigint	NO	MUL	NULL	

Properties

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
availability	varchar(255)	YES		NULL	
location	varchar(255)	YES		NULL	
name	varchar(255)	YES		NULL	
price	decimal(38,2)	YES		NULL	
rooms	varchar(255)	YES		NULL	
size	varchar(255)	YES		NULL	

Users

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
email	varchar(255)	NO	UNI	NULL	
password	varchar(255)	NO		NULL	
username	varchar(255)	NO	UNI	NULL	