



MedSync

Hospital Management System

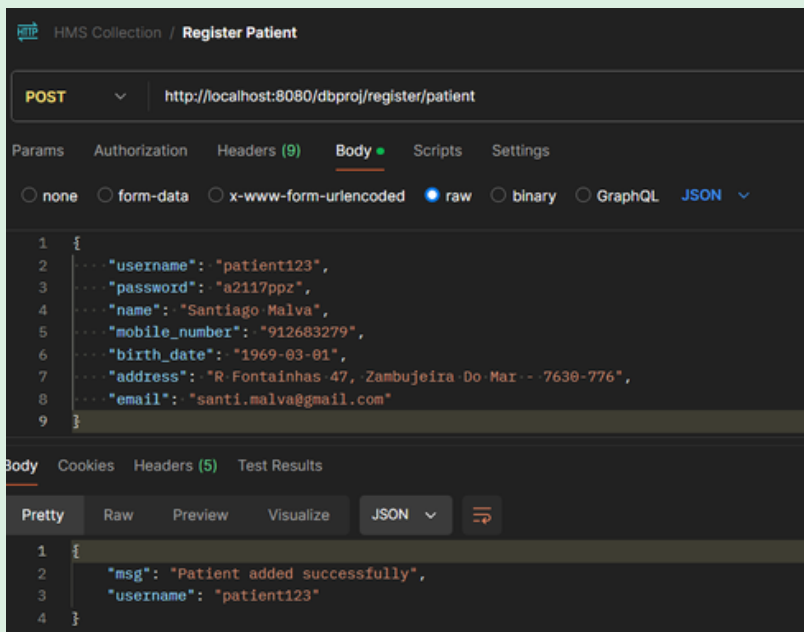
MEDSYNC

FUNCIONALIDADES

- Registrar paciente, assistente, enfermeiro e médico.
- Proceder à autenticação dos utilizadores acima referidos.
- Marcar e ver as consultas/cirurgias marcadas
- Adicionar e consultar prescrições de medicamentos
- Executar pagamentos
- Listar os 3 pacientes com mais despesas no hospital
- Gerar um resumo estatístico diário e mensal
- Encriptação de informação sensível

REGISTO

REGISTO BEM SUCEDIDO



HMS Collection / Register Patient

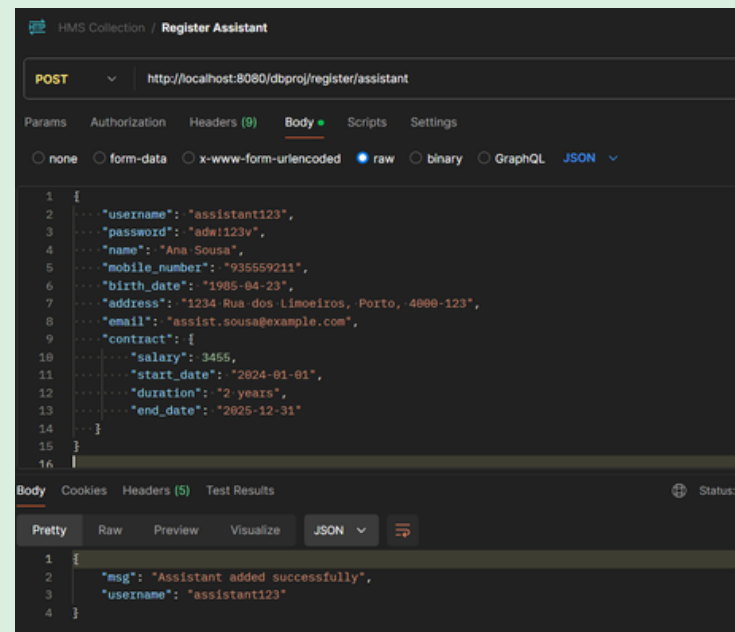
POST http://localhost:8080/dbproj/register/patient

Body (raw):

```
{
  "username": "patient123",
  "password": "a2i17ppz",
  "name": "Santiago Malva",
  "mobile_number": "912683279",
  "birth_date": "1969-03-01",
  "address": "R Fontainhas 47, Zambujeira Do Mar - 7630-776",
  "email": "santi.malva@gmail.com"
}
```

Body (JSON):

```
{
  "msg": "Patient added successfully",
  "username": "patient123"
}
```



HMS Collection / Register Assistant

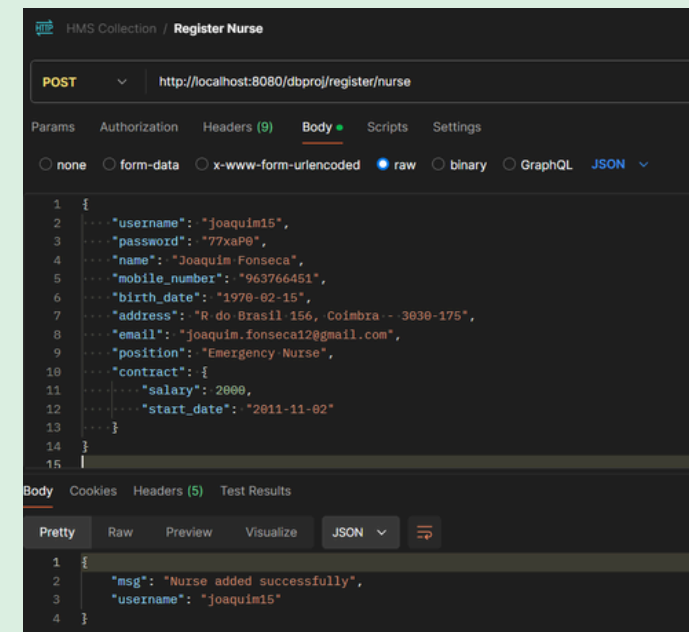
POST http://localhost:8080/dbproj/register/assistant

Body (raw):

```
{
  "username": "assistant123",
  "password": "admi123v",
  "name": "Ana Sousa",
  "mobile_number": "935559211",
  "birth_date": "1985-04-23",
  "address": "1234 Rua dos Limoeiros, Porto, 4000-123",
  "email": "assist.sousa@example.com",
  "contract": {
    "salary": 3455,
    "start_date": "2024-01-01",
    "duration": "2 years",
    "end_date": "2025-12-31"
  }
}
```

Body (JSON):

```
{
  "msg": "Assistant added successfully",
  "username": "assistant123"
}
```



HMS Collection / Register Nurse

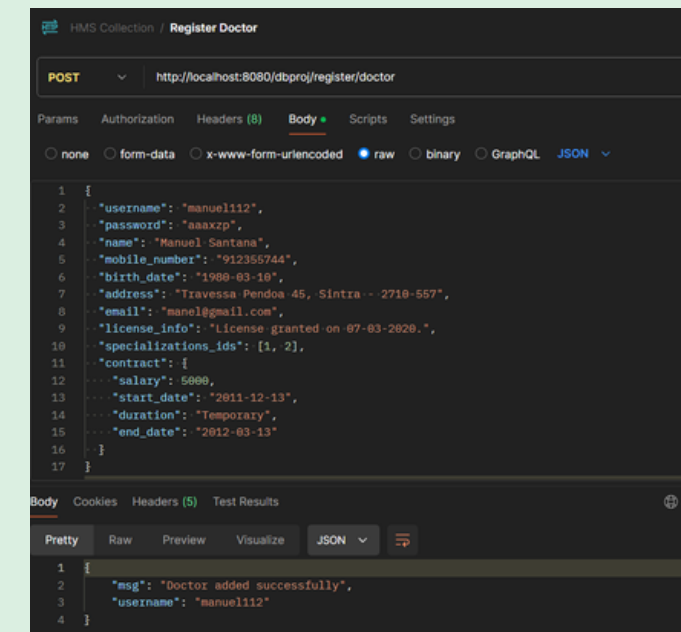
POST http://localhost:8080/dbproj/register/nurse

Body (raw):

```
{
  "username": "joaquim15",
  "password": "77xaP0",
  "name": "Joaquim Fonseca",
  "mobile_number": "963766451",
  "birth_date": "1970-02-15",
  "address": "R do Brasil 156, Coimbra - 3030-175",
  "email": "joaquim.fonseca12@gmail.com",
  "position": "Emergency Nurse",
  "contract": {
    "salary": 2000,
    "start_date": "2011-11-02"
  }
}
```

Body (JSON):

```
{
  "msg": "Nurse added successfully",
  "username": "joaquim15"
}
```



HMS Collection / Register Doctor

POST http://localhost:8080/dbproj/register/doctor

Body (raw):

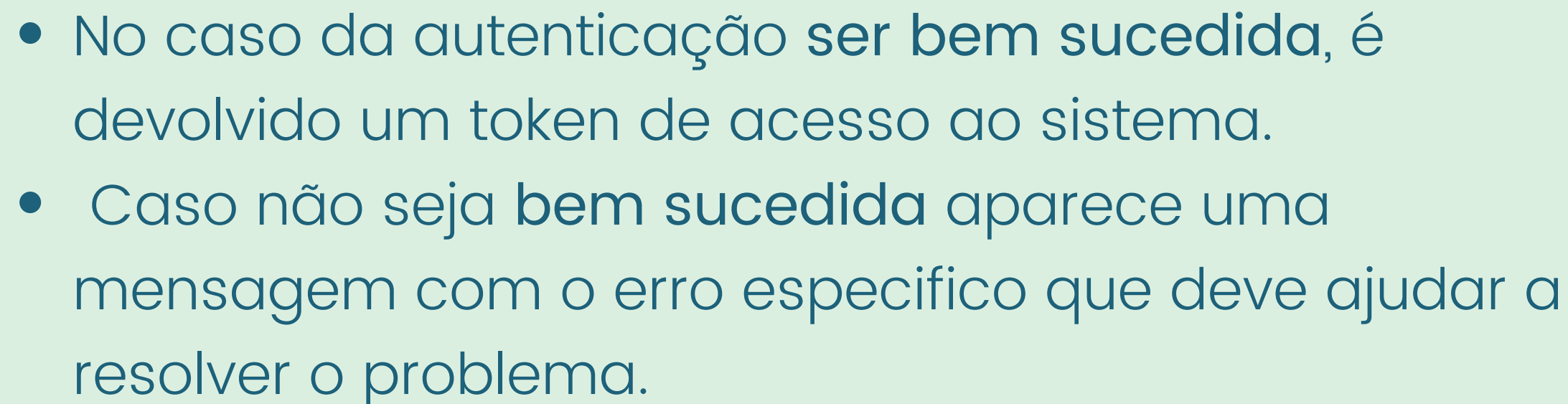
```
{
  "username": "manuel112",
  "password": "aaaxzp",
  "name": "Manuel Santana",
  "mobile_number": "912355744",
  "birth_date": "1980-03-10",
  "address": "Travessa Pendoe 45, Sintra - 2710-557",
  "email": "manel@gmail.com",
  "license_info": "License granted on 07-03-2020.",
  "specializations_ids": [1, 2],
  "contract": {
    "salary": 5000,
    "start_date": "2011-12-13",
    "duration": "Temporary",
    "end_date": "2012-03-13"
  }
}
```

Body (JSON):

```
{
  "msg": "Doctor added successfully",
  "username": "manuel112"
}
```

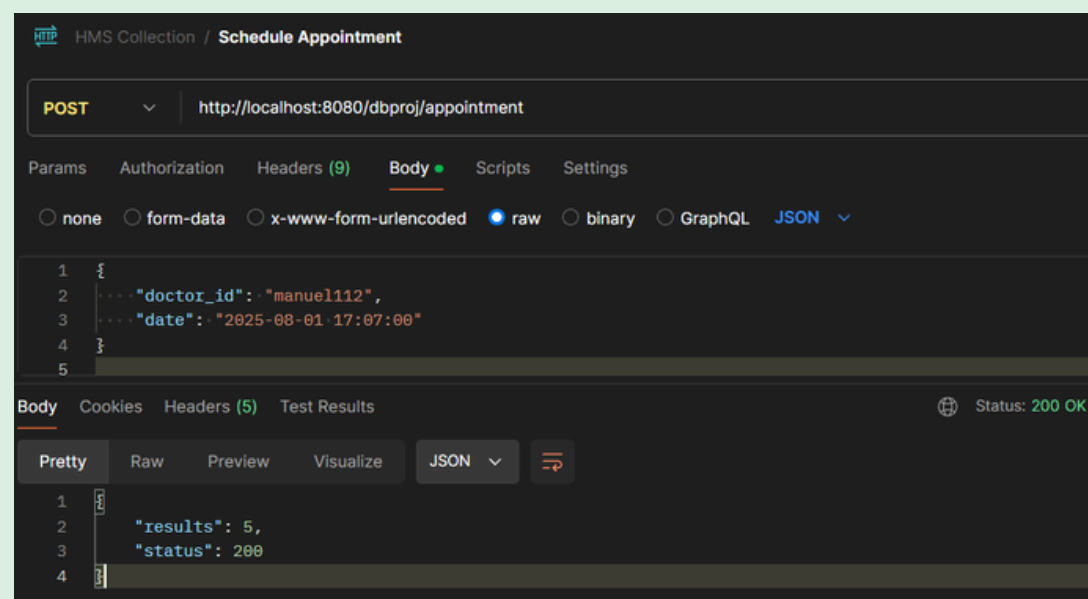
- No caso do registo não ser bem sucedido aparece uma mensagem com o erro específico que deve ajudar a resolver o problema.

AUTENTICAÇÃO BEM SUCEDIDA

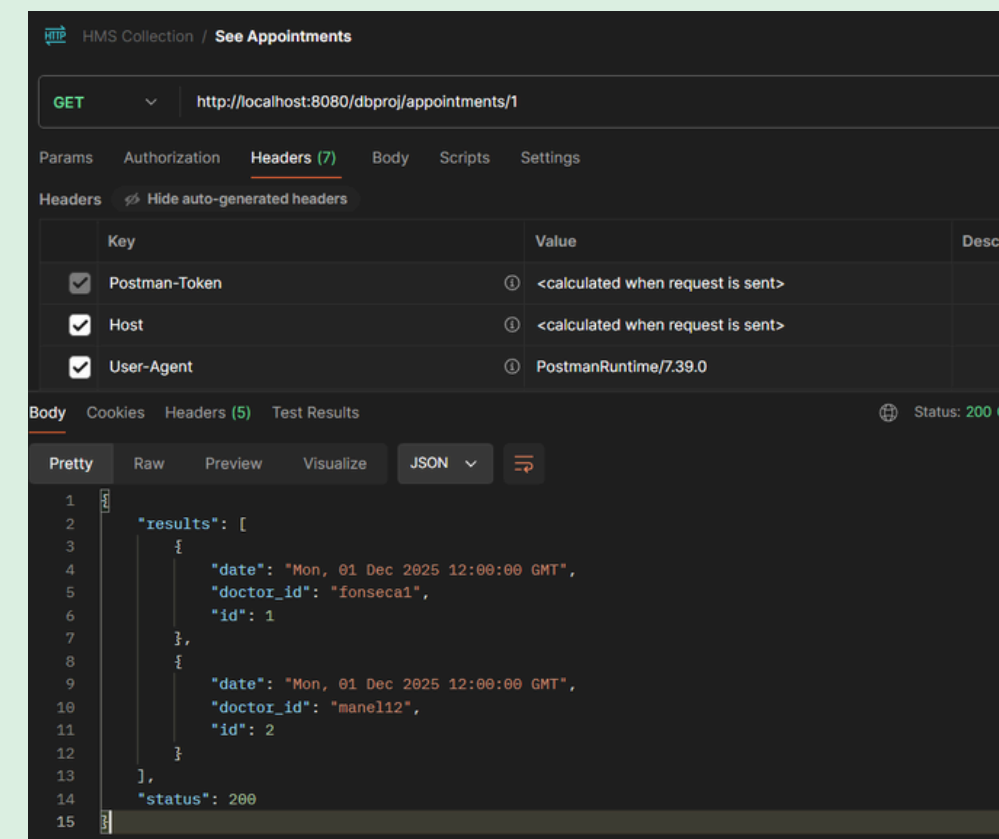


ACESSO A CONSULTAS

MARCAÇÃO BEM
SUCEDIDA



VISUALIZAÇÃO BEM
SUCEDIDA



- As marcações só podem ser feitas por pacientes e as visualizações só podem ser feitas pelo paciente da consulta ou um assistente. Caso alguém que não esteja enquadrado nestes parâmetros tente aceder, é exibida uma mensagem de acesso negado.

ACESSO A CIRURGIAS

MARCAÇÃO SEM HOSPITALIZAÇÃO

The screenshot shows a REST client interface for a collection named 'HMS Collection' with a sub-collection 'Schedule Surgery'. The request is a POST to 'http://localhost:8080/dbproj/surgery'. The body is a JSON object with the following fields: 'patient_id' (xx), 'doctor' (manel12), 'nurses' (joaquim08, Intern), and 'date' (2024-01-07 15:00:00). The response status is 200 OK. The response body is a JSON object with 'results' containing the surgery details and 'status' 200.

```
1 {
2   "patient_id": "xx",
3   "doctor": "manel12",
4   "nurses": ["joaquim08", "Intern"],
5   "date": "2024-01-07 15:00:00"
6 }

1 {
2   "results": {
3     "date": "2024-01-07 15:00:00",
4     "doctor_id": "manel12",
5     "hospitalization_id": 9,
6     "patient_id": "xx",
7     "surgery_id": 18
8   },
9   "status": 200
10 }
```

MARCAÇÃO COM HOSPITALIZAÇÃO

The screenshot shows a REST client interface for a collection named 'HMS Collection' with a sub-collection 'Schedule Surgery'. The request is a POST to 'http://localhost:8080/dbproj/surgery/9'. The body is a JSON object with the following fields: 'patient_id' (xx), 'doctor' (manel12), 'nurses' (joaquim08, Intern), and 'date' (2024-01-08 17:30:00). The response status is 200 OK. The response body is a JSON object with 'results' containing the surgery details and 'status' 200.

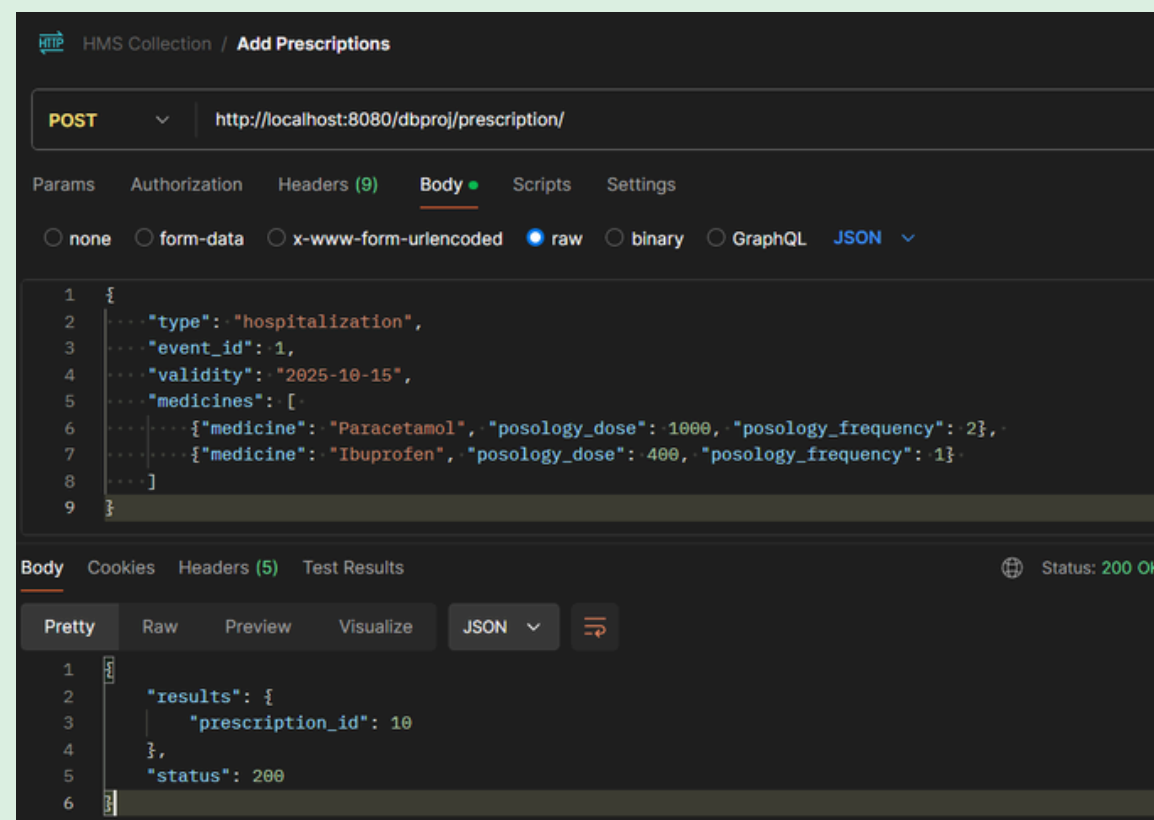
```
1 {
2   "patient_id": "xx",
3   "doctor": "manel12",
4   "nurses": ["joaquim08", "Intern"],
5   "date": "2024-01-08 17:30:00"
6 }

1 {
2   "results": {
3     "date": "2024-01-08 17:30:00",
4     "doctor_id": "manel12",
5     "hospitalization_id": 9,
6     "patient_id": "xx",
7     "surgery_id": 19
8   },
9   "status": 200
10 }
```

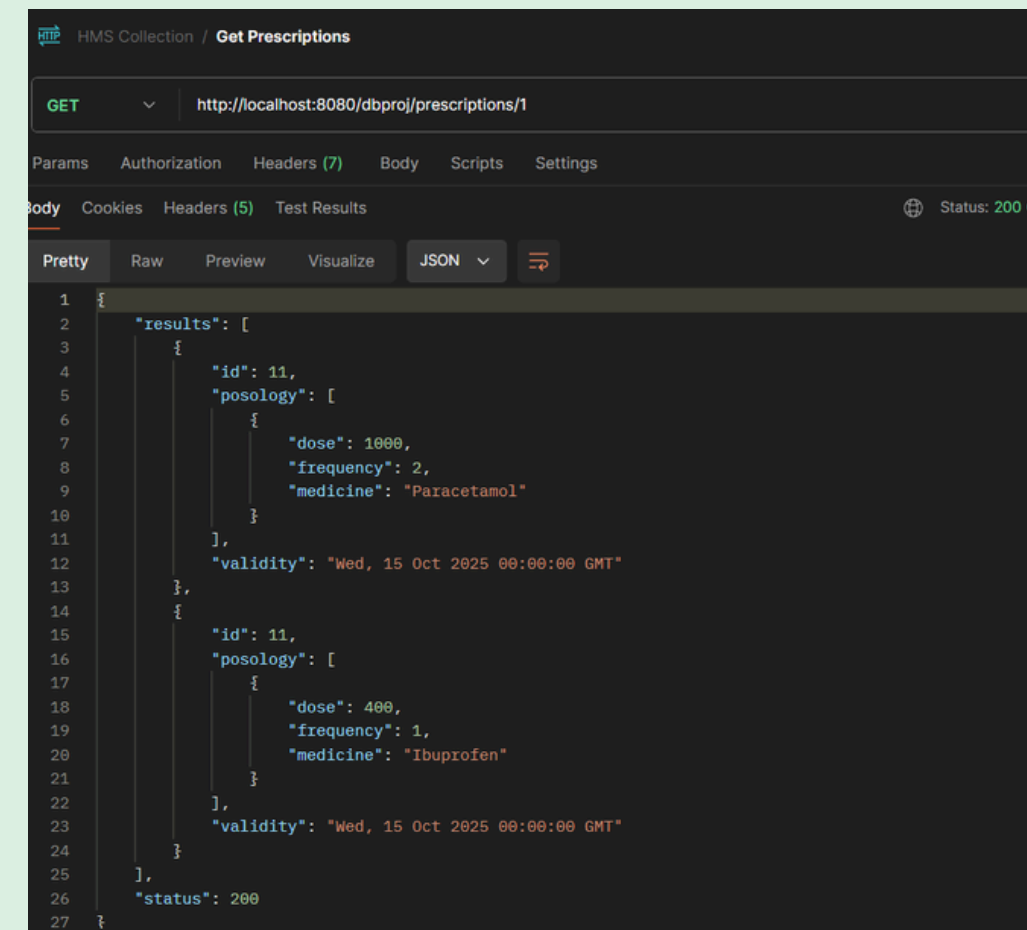
- As marcações só podem ser feitas por assistentes. Caso alguém que não esteja enquadrado nestes parâmetros tente aceder, é exibida uma mensagem de acesso negado.

ACESSO A PRESCRIÇÕES

ADICIONAR MEDICAMENTO A UMA PRESCRIÇÃO



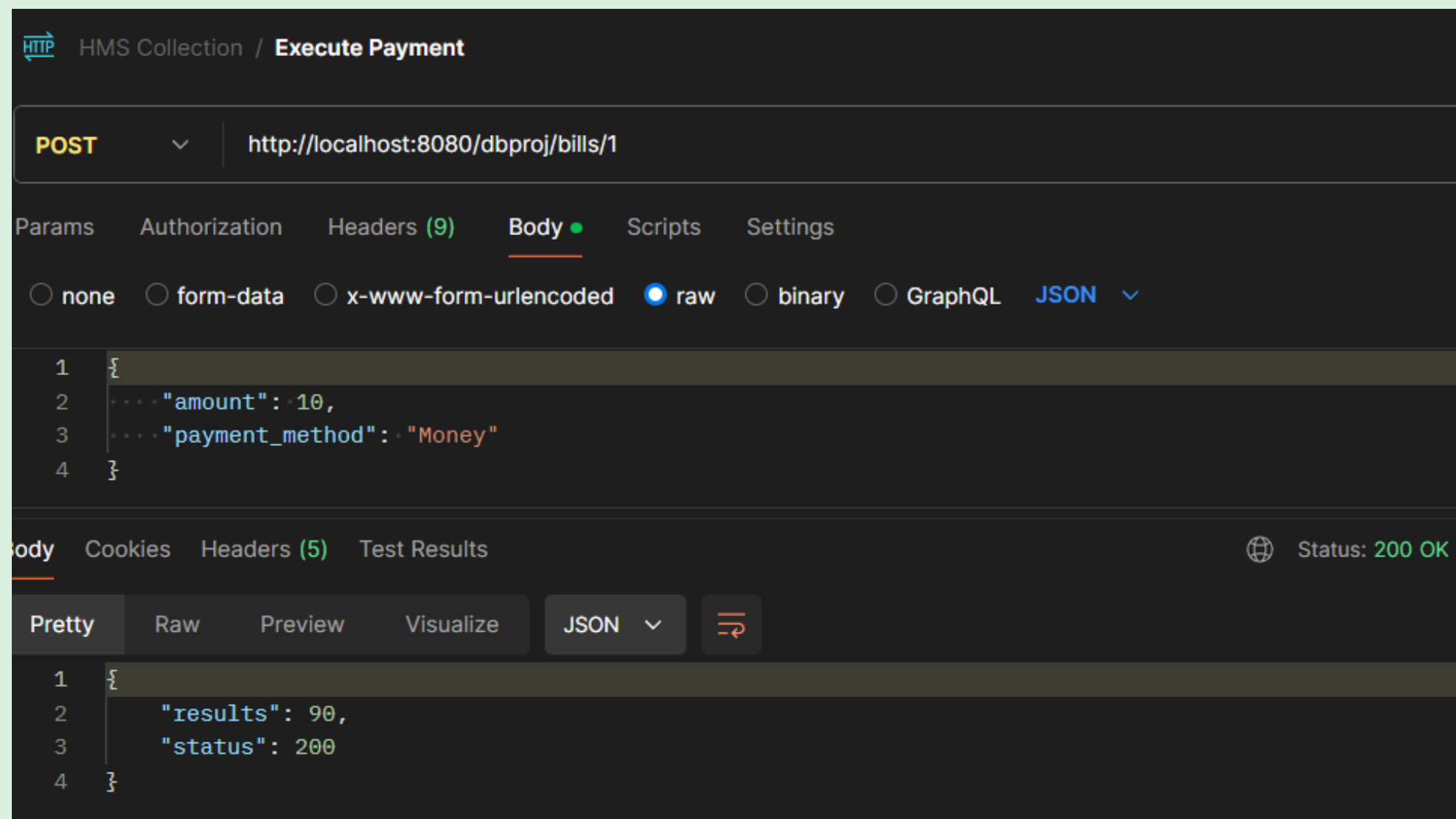
VISUALIZAR PRESCRIÇÃO



- As prescrições só podem ser feitas por médicos e só podem ser vistas pelo próprio paciente ou um assistente. Caso alguém que não esteja enquadrado nestes parâmetros tente aceder, é exibida uma mensagem de acesso negado.

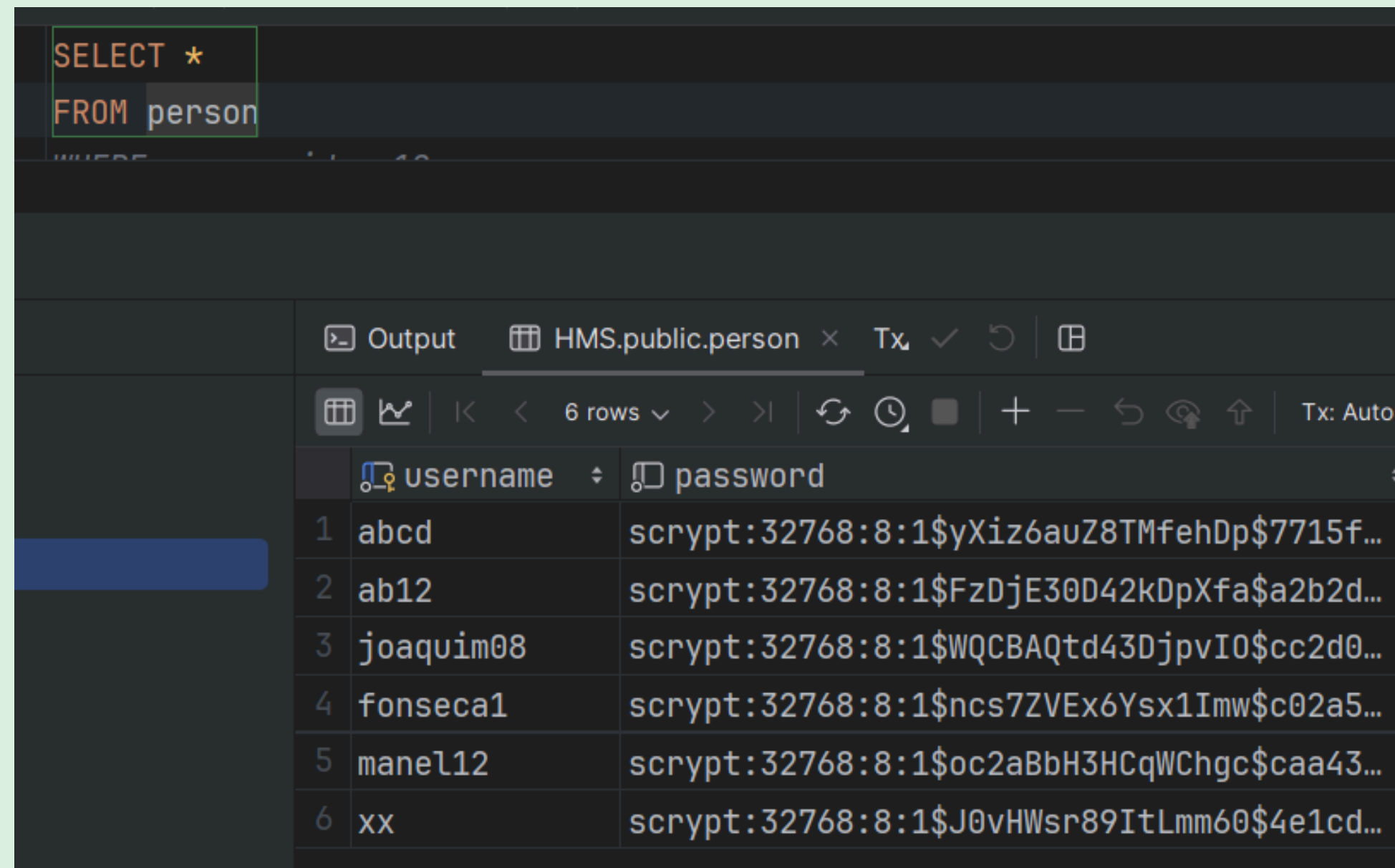
EXECUTAR PAGAMENTOS

PAGAMENTO BEM SUCEDIDO



ENCRYPTAÇÃO

INFORMAÇÃO SENSÍVEL GUARDADA DE MANEIRA
ENCRYPTADA



The screenshot shows a database query tool interface. At the top, an SQL query is entered in a text area: `SELECT *` and `FROM person`. Below the query, the results are displayed in a table. The table has two columns: `username` and `password`. There are 6 rows of data. The passwords are all encrypted using bcrypt (indicated by the `scrypt` prefix in the original image, which is a common typo for `bcrypt` in such contexts). The interface includes a toolbar with various icons for table operations, a tab labeled `HMS.public.person`, and a status bar at the bottom.

	username	password
1	abcd	scrypt:32768:8:1\$yXiz6auZ8TMfehDp\$7715f...
2	ab12	scrypt:32768:8:1\$FzDjE30D42kDpXfa\$a2b2d...
3	joaquim08	scrypt:32768:8:1\$WQCBAQtd43DjpvIO\$cc2d0...
4	fonseca1	scrypt:32768:8:1\$ncs7ZVEx6Ysx1Imw\$c02a5...
5	manel12	scrypt:32768:8:1\$oc2aBbH3HCqWChgc\$caa43...
6	xx	scrypt:32768:8:1\$J0vHWsr89ItLmm60\$4e1cd...

INFORMAÇÕES

UNIDADE CURRICULAR

Bases de Dados

CURSO

Engenharia Informática

DATA

28/05/2024

MEMBROS DA EQUIPA

Diogo José Gaspar Ferreira, nº 2022220735

Luana Carolina Cunha Reis, nº 2022220606

Rafael Teixeira da Silva, nº 2019219259