

# Accenture-NuWe

## accenture-techhub

This document brings together the HTTP request for an API to perform the appointment management functionality in a hospital environment that is part of the Accenture-Nuwe Java Back End Developer challenge [accenture-techhub].

The base URL for all API requests is: <https://{url}/api>

## Endpoints

### Rooms

- [GET /rooms](#) returns a list of all rooms
- [GET /room/{roomName}](#) returns a room with the specified name
- [POST /room](#) creates the specified room
- [DELETE /room/{roomName}](#) deletes a room with the specified name
- [DELETE /rooms](#) deletes all rooms

### Patient

- [GET /patients](#) returns a list of all patients
- [GET /patient/{id}](#) returns a patient with the specified id
- [POST /patient](#) creates a patient
- [DELETE /patient/{id}](#) deletes a patient with the specified id
- [DELETE /patients](#) deletes all patients

### Doctors

- [GET /doctors](#) returns a list of all patients
- [GET /doctor/{id}](#) returns a doctor with the specified id
- [POST /doctor](#) creates a doctor
- [DELETE /doctor/{id}](#) deletes a doctor with the specified id
- [DELETE /doctors](#) deletes all doctors

## Appointments

- **GET /appointments** returns a list with all appointments
- **GET /appointment/{id}** returns an appointment with the specified id
- **POST /appointment** creates an appointment
- **DELETE /appointment/{id}** deletes an appointment with the specified id
- **DELETE /appointments** deletes all appointments

## Error responses API-specific

- 404 NOT FOUND
- 204 NO CONTENT
- 406 NOT ACCEPTABLE
- 400 BAD REQUEST

## The next steps cover instructions for a local test of the API.

We need to link a MySQL database to our project by changing some line codes on the application.properties file to point to the database:

```
spring.datasource.url=jdbc:mysql://{database IP}:{database port}/{database name}  
spring.datasource.username={Database user name}  
spring.datasource.password={database password}
```

On the project path, we execute the following command to install and start the project:

```
mvn clean install spring-boot:run
```

If everything is ok you should get on the last lines something similar to:

```
INFO 40862 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer: Tomcat started on port (s): 8080 (http) with context path ''
INFO 40862 --- [main] com.example.demo.TechhubApplication: Started TechhubApplication in 5.797 seconds (JVM running for 6.691)
```

Once our maven-embedded Tomcat server is up and running, you can use your favorite test application for API testing. All examples are made with Postman using <https://localhost:8080> as the base URL.

Examples are shown below.

## Room endpoints

### GET /rooms

Returns all the rooms on the database if there are any

#### Request Parameters:

- No request parameters

#### Response

- Status code: 200 OK

```
[
  {
    "roomName": "Blood extraction"
  },
  {
    "roomName": "Pharmacy"
  }
]
```

- Status code: 404 NOT FOUND

This status code doesn't return any response body.

There is no rooms in the database

## GET /rooms/{roomName}

### Example

GET /rooms/Dermatology

### Request Parameters:

- **roomName** : The unique **roomName** (of type **String**) of the resource to be retrieved.

### Response

- Status code: 200 OK

```
{
  "roomName": "Dermatology"
}
```

- Status code: 404 NOT FOUND

This status code doesn't return any response body.

There's no room matching the criteria.

## POST /room

Creates a room on the database

### Request Parameters:

```
{
  "roomName": "Pharmacy"
}
```

### Response

- Status code: 201 CREATED

```
{  
  "roomName": "Pharmacy"  
}
```

## DELETE /rooms/{roomName}

### Example

DELETE /rooms/Dermatology

### Request Parameters:

- **roomName** : The unique **roomName** (of type **String**) of the resource to be retrieved.

### Response

- Status code: 200 OK

This status code doesn't return any response body.

The room has been deleted.

- Status code: 404 NOT FOUND

This status code doesn't return any response body.

There's no room matching the criteria to be deleted.

## DELETE /rooms

### Request Parameters:

- No request parameters

### Response:

- Status code: 200 OK

This status code doesn't return any response body.

All rooms have been deleted from the database.

## Patient endpoints

Add folder description...

### GET /patients

#### Request Parameters:

- No request parameters

#### Response

- Status code: 200 OK

```
[
  {
    "firstName": "Jose Luis",
    "lastName": "Olaya",
    "age": 37,
    "email": "j.olaya@hospital.accwe",
    "id": 17
  }
]
```

- Status code: 204 NO CONTENT

This status code doesn't return any response body.

There are no patients in the database

### GET /patients/{id}

#### Example

GET /patients/17

#### Request Parameters:

- **id** : The unique **id** (of type **long**) of the resource to be retrieved.

#### Response

- Status code: 200 OK

```
[
  {
    "firstName": "Jose Luis",
    "lastName": "Olaya",
    "age": 37,
    "email": "j.olaya@hospital.accwe",
    "id": 17
  }
]
```

- Status code: 404 NOT FOUND

This status code doesn't return any response body.

There's no patient matching the criteria.

## POST /patient

### Request Parameters:

```
{
  "firstName": "Jose Luis",
  "lastName": "Olaya",
  "age": 37,
  "email": "j.olaya@hospital.accwe"
}
```

### Response

- Status code: 201 CREATED

```
{
  "firstName": "Jose Luis",
  "lastName": "Olaya",
  "age": 37,
  "email": "j.olaya@ehospital.accwe",
  "id": 17
}
```

## DELETE /patients/{id}

### Example

DELETE /patients/17

### Request Parameters:

- **id** : The unique **id** (of type **long**) of the resource to be retrieved.

### Response

- Status code: 200 OK

This status code doesn't return any response body.

The patient matching the id has been deleted.

- Status code: 404 NOT FOUND

This status code doesn't return any response body.

There's no patient matching the criteria.

## DELETE /patients

### Request Parameters:

- No request parameters

### Response

- Status code: 200 OK

This request doesn't return any response body.

All patients have been deleted from the database.

## Doctor endpoints

Add folder description...



## GET /doctors

### Request Parameters:

- No request parameters

### Response

- Status code: 200 OK

```
[
  {
    "firstName": "Luis Luis",
    "lastName": "Olaya",
    "age": 37,
    "email": "p.olaya@hospital.accwe",
    "id": 16
  },
  {
    "firstName": "Perla",
    "lastName": "Amaya",
    "age": 37,
    "email": "p.amaya@ehospital.accwe",
    "id": 17
  }
]
```

- Status code: 204 NO CONTENT

This status code doesn't return any response body.

There are no doctors in the database

## GET /doctors/{id}

### Example

GET/doctors/17

### Request Parameters:

- **id** : The unique **id** (of type **long**) of the resource to be retrieved.

### Response

- Status code: 200 OK

```
[
  {
    "firstName": "Perla",
    "lastName": "Amaya",
    "age": 37,
    "email": "p.amaaya@hospital.accwe",
    "id": 17
  }
]
```

- Status code: 404 NOT FOUND

This status code doesn't return any response body.

There's no doctor matching the criteria.

## POST /doctor

### Request Parameters:

```
{
  "firstName": "Perla",
  "lastName": "Amaya",
  "age": 37,
  "email": "j.amaya@hospital.accwe"
}
```

### Response

- Status code: 201 CREATED

```
{
  "firstName": "Perla",
  "lastName": "Amaya",
  "age": 37,
  "email": "j.amaya@hospital.accwe",
  "id": 17
}
```

## DELETE /doctors/{id}

### Example

DELETE /doctors/17

### Request Parameters:

- **id** : The unique **id** (of type **long**) of the resource to be retrieved.

### Response

- Status code: 200 OK

This status code doesn't return any response body.

The doctor matching the id has been deleted.

- Status code: 404 NOT FOUND

This status code doesn't return any response body.

There's no doctor matching the criteria.

## DELETE /doctors

### Request Parameters:

- No request parameters

### Response

- Status code: 200 OK

This request doesn't return any response body.

All doctors have been deleted from the database.

## Appointment endpoints

Add folder description...

## GET /appointments

### Request Parameters:

- No request parameters

### Response

- Status code: 200 OK

```
[
  {
    "id": 19,
    "patient": {
      "firstName": "Jose Luis",
      "lastName": "Olaya",
      "age": 37,
      "email": "j.olaya@email.com",
      "id": 21
    },
    "doctor": {
      "firstName": "Perla",
      "lastName": "Amalia",
      "age": 24,
      "email": "p.amalia@hospital.accwe",
      "id": 20
    },
    "room": {
      "roomName": "Traumatology"
    },
    "startsAt": "19:00 24/04/2023",
    "finishesAt": "20:00 24/04/2023"
  }
]
```

- Status code: 204 NO CONTENT

This status code doesn't return any response body.

There are no appointments in the database

## GET /appointments/{id}

### Example

GET /appointments/19

### Request Parameters:

- **id** : The unique **id** (of type **long**) of the resource to be retrieved.

## Response

- Status code: 200 OK

```
[
  {
    "id": 19,
    "patient": {
      "firstName": "Jose Luis",
      "lastName": "Olaya",
      "age": 37,
      "email": "j.olaya@email.com",
      "id": 21
    },
    "doctor": {
      "firstName": "Perla",
      "lastName": "Amalia",
      "age": 24,
      "email": "p.amalia@hospital.accwe",
      "id": 20
    },
    "room": {
      "roomName": "Traumatology"
    },
    "startsAt": "19:00 24/04/2023",
    "finishesAt": "20:00 24/04/2023"
  }
]
```

- Status code: 404 NOT FOUND

This status code doesn't return any response body.

There's no appointment matching the criteria.

## POST /appointment

### Request Parameters:

```
{
  "patient": {
    "firstName": "Jose Luis",
    "lastName": "Olaya",
```

```

    "age": 37,
    "email": "j.olaya@email.com"
  },
  "doctor": {
    "firstName": "Perla",
    "lastName": "Amalia",
    "age": 24,
    "email": "p.amalia@hospital.accwe"
  },
  "room": {
    "roomName": "Traumatology"
  },
  "startsAt": "20:30 24/04/2023",
  "finishesAt": "20:30 24/04/2023"
}

```

## Response

- Status code: 200 OK
- This status code doesn't return any response body.

The appointment has been created

- Status code: 406 NOT ACCEPTABLE

This status code doesn't return any response body.

The appointment overlaps with an existing one

- Status code: BAD REQUEST

This status code doesn't return any response body.

The appointment time is incorrect (Start and ends at the same time)

## DELETE /appointments/{id}

### Example

DELETE/appointments/19

### Request Parameters:

- **id** : The unique **id** (of type **long**) of the resource to be retrieved.

## Response

- Status code: 200 OK

This status code doesn't return any response body.

The appointment matching the id has been deleted.

- Status code: 404 NOT FOUND

This status code doesn't return any response body.

There's no appointment matching the criteria.

## DELETE /appointments

### Request Parameters:

- No request parameters

## Response

- Status code: 200 OK

This request doesn't return any response body.

All appointments have been deleted from the database.

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