Test Report

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April 29, 2023

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1.Introduction

1.1 Scope

The purpose of this document is to describe the testing process that will be carried out to verify the functioning of the services used for the development of the Apprentice Radar platform, in which the complete CRUDs for the training, radar and apprentice use cases are created.

Some functionalities were tested that were able to be implemented in the front end, such as login and user creation and role assignment.

For this test cycle, only functional tests of the services and the platform will be performed to ensure that the services to be tested comply with the expectations.

1.2 Out of Scope

Non-functional factors such as performance, IT security, usability, scalability, etc. will not be tested in this testing process, as the criteria for evaluating these elements are not defined in this testing cycle.
For some of the services, the negative scenarios are not taken into account since for this project sprint the successful scenarios were prioritized.

2. Strategy

For the strategy, a series of activities will be carried out as described below:

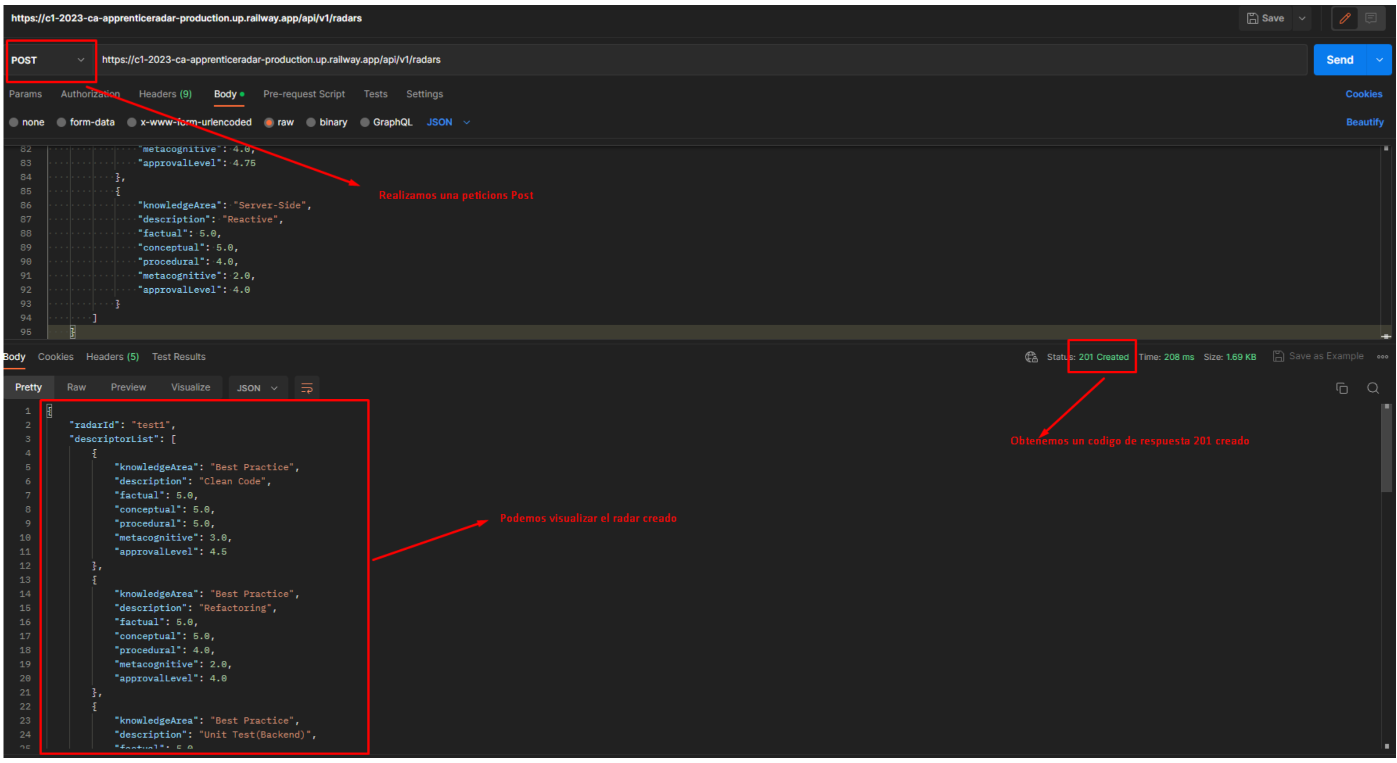
- Identify the requirements and main functionalities of the software to be tested.
- Identify the test scenarios based on the requirements and functionalities.
- Design the test cases for each of the identified test scenarios.
- Record test results in a test report.
- Communicate defects found to the development team for correction and follow up until resolution.

3. Coverage

20 test cases were designed covering the services used by the platform as defined in the business logic. During this period of time, 16 test cases were executed, equivalent to 80% of the execution coverage. Some test cases that had been designed could not be tested because the modules required for testing were not deployed.

For automated testing, live documentation is attached to the mailing.

- Scenario: Successful Radar Creation Postman



https://c1-2023-ca-apprenticeradar-production.up.railway.app/api/v1/radars

POST https://c1-2023-ca-apprenticeradar-production.up.railway.app/api/v1/radars

Body: raw JSON

```
                "metacognitive": 4.0,
                "approvalLevel": 4.75
            },
            {
                "knowledgeArea": "Server-Side",
                "description": "Reactive",
                "factual": 5.0,
                "conceptual": 5.0,
                "procedural": 4.0,
                "metacognitive": 2.0,
                "approvalLevel": 4.0
            }
    ]
}
```

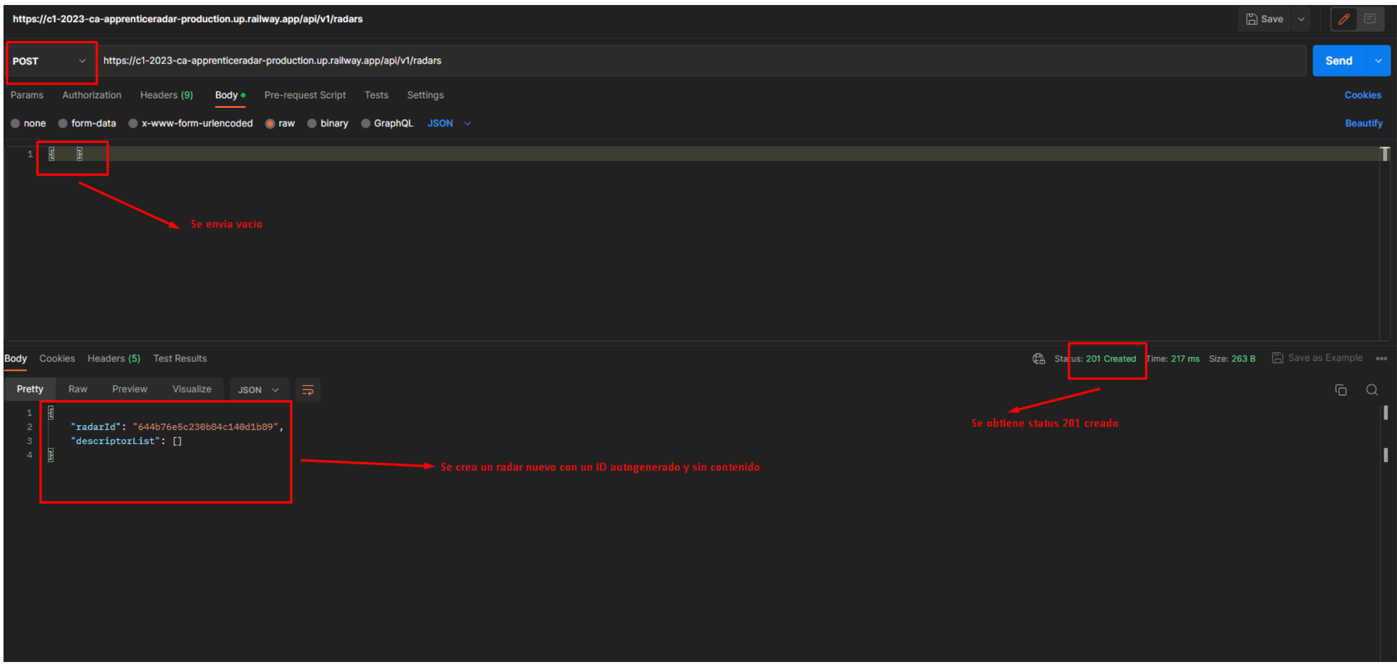
Realizamos una peticions Post

Status: 201 Created Time: 208 ms Size: 1.69 KB

Obtenemos un codigo de respuesta 201 creado

```
{
    "radarId": "test1",
    "descriptorList": [
        {
            "knowledgeArea": "Best Practice",
            "description": "Clean Code",
            "factual": 5.0,
            "conceptual": 5.0,
            "procedural": 5.0,
            "metacognitive": 3.0,
            "approvalLevel": 4.5
        },
        {
            "knowledgeArea": "Best Practice",
            "description": "Refactoring",
            "factual": 5.0,
            "conceptual": 5.0,
            "procedural": 4.0,
            "metacognitive": 2.0,
            "approvalLevel": 4.0
        },
        {
            "knowledgeArea": "Best Practice",
            "description": "Unit Test(Backend)",
```

Podemos visualizar el radar creado



https://c1-2023-ca-apprenticeradar-production.up.railway.app/api/v1/radars

POST https://c1-2023-ca-apprenticeradar-production.up.railway.app/api/v1/radars

Body: raw JSON

```
{}
```

Se envia vacio

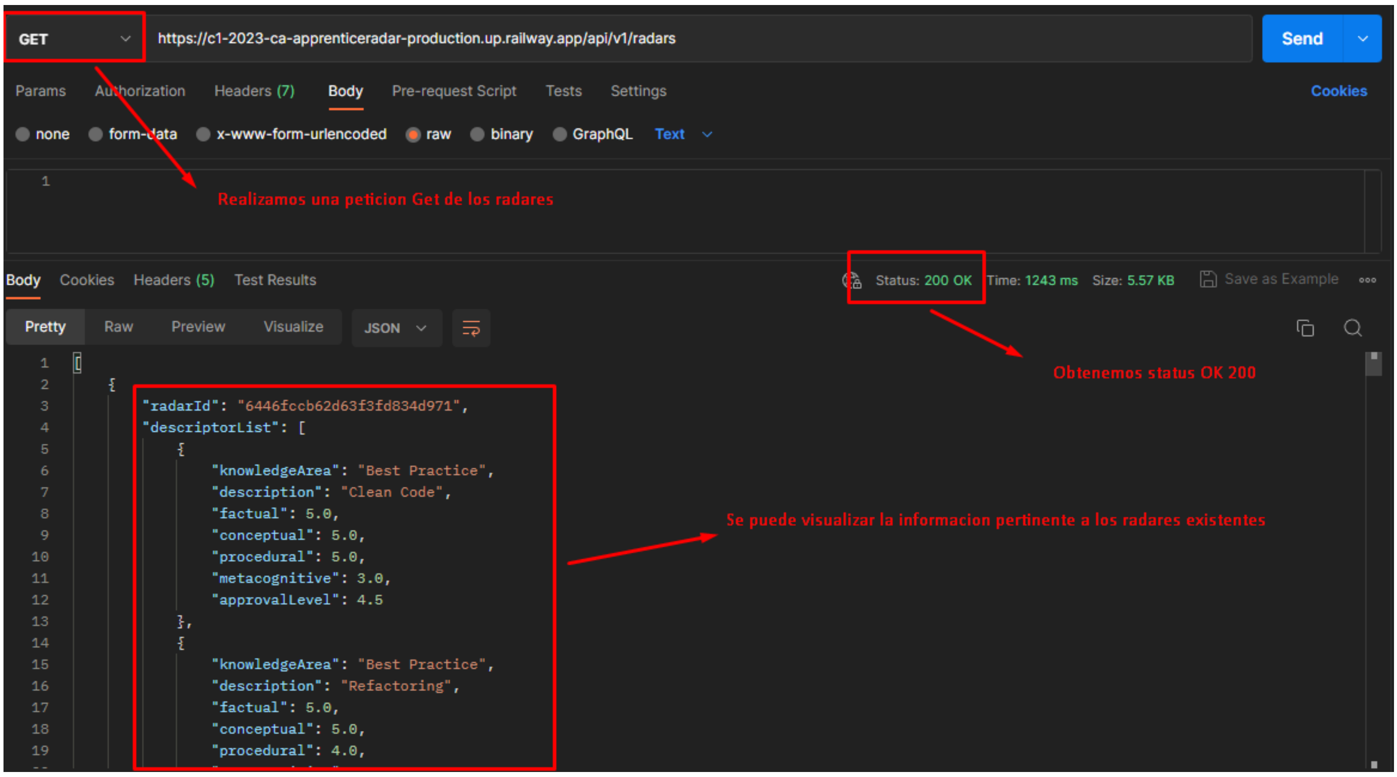
Status: 201 Created Time: 217 ms Size: 263 B

Se obtiene status 201 creado

```
{
    "radarId": "644b76e5c230b84c140d1b89",
    "descriptorList": []
}
```

Se crea un radar nuevo con un ID autogenerado y sin contenido

- Scenario: Successful visualization of all existing radars

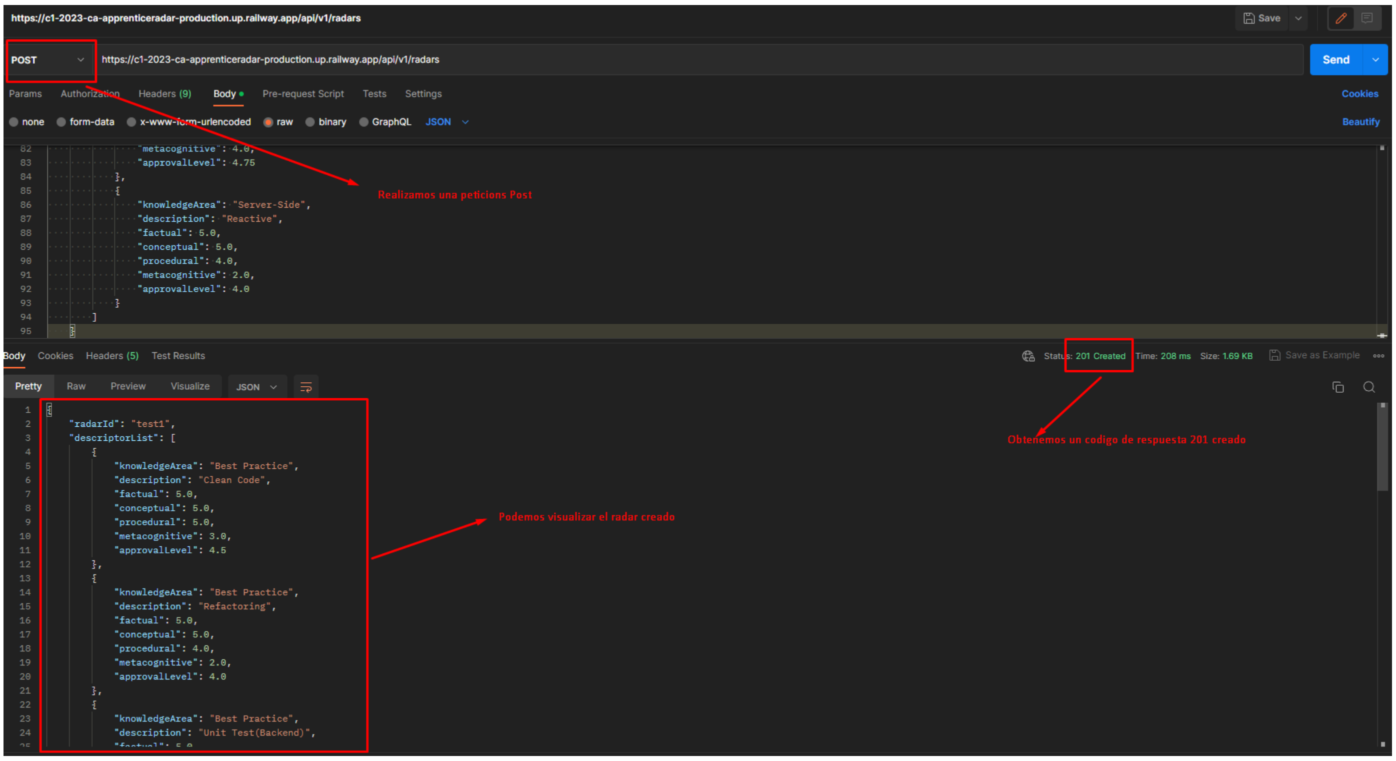


https://c1-2023-ca-apprenticeradar-production.up.railway.app/api/v1/radars

Status: 200 OK Time: 1243 ms Size: 5.57 KB

```
[
    {
        "radarId": "6446fccb62d63f3fd834d971",
        "descriptorList": [
            {
                "knowledgeArea": "Best Practice",
                "description": "Clean Code",
                "factual": 5.0,
                "conceptual": 5.0,
                "procedural": 5.0,
                "metacognitive": 3.0,
                "approvalLevel": 4.5
            },
            {
                "knowledgeArea": "Best Practice",
                "description": "Refactoring",
                "factual": 5.0,
                "conceptual": 5.0,
                "procedural": 4.0,
```

- Scenario: Radar Update Successful Postman



https://c1-2023-ca-apprenticeradar-production.up.railway.app/api/v1/radars

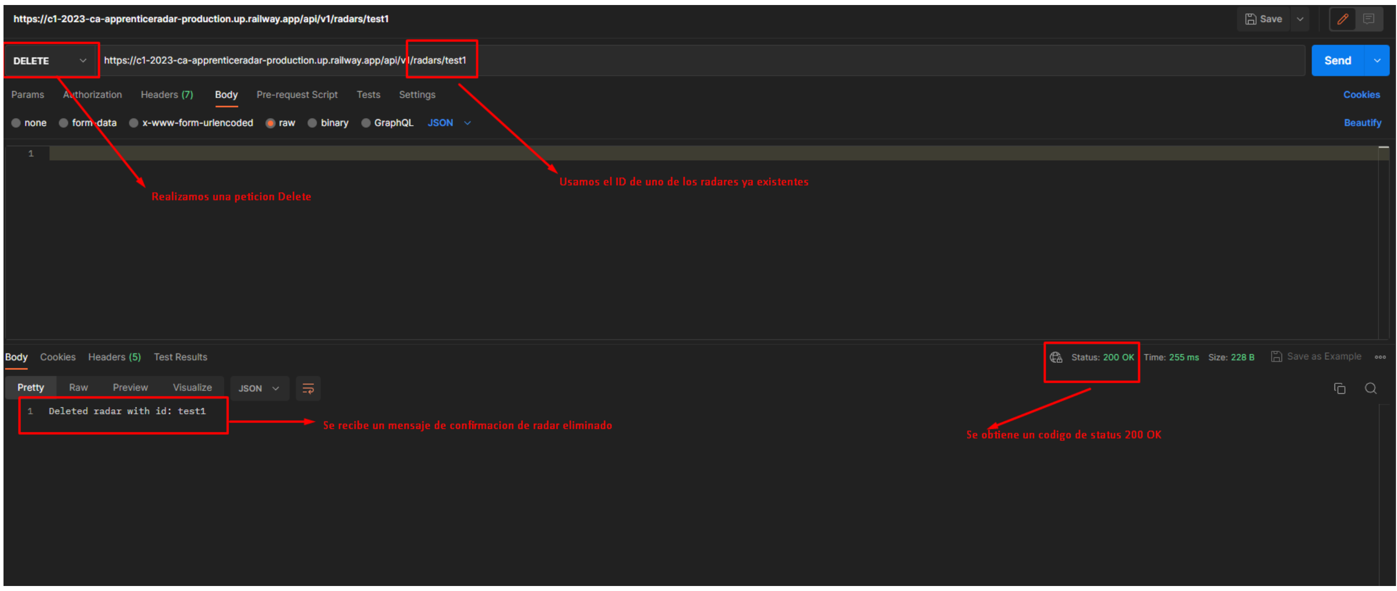
POST https://c1-2023-ca-apprenticeradar-production.up.railway.app/api/v1/radars

```
                "metacognitive": 4.0,
                "approvalLevel": 4.75
            },
            {
                "knowledgeArea": "Server-Side",
                "description": "Reactive",
                "factual": 5.0,
                "conceptual": 5.0,
                "procedural": 4.0,
                "metacognitive": 2.0,
                "approvalLevel": 4.0
            }
        ]
    }
```

Status: 201 Created Time: 208 ms Size: 1.69 KB

```
{
    "radarId": "test1",
    "descriptorList": [
        {
            "knowledgeArea": "Best Practice",
            "description": "Clean Code",
            "factual": 5.0,
            "conceptual": 5.0,
            "procedural": 5.0,
            "metacognitive": 3.0,
            "approvalLevel": 4.5
        },
        {
            "knowledgeArea": "Best Practice",
            "description": "Refactoring",
            "factual": 5.0,
            "conceptual": 5.0,
            "procedural": 4.0,
            "metacognitive": 2.0,
            "approvalLevel": 4.0
        },
        {
            "knowledgeArea": "Best Practice",
            "description": "Unit Test(Backend)",
```

- Scenario: Radar Successfully Deleted

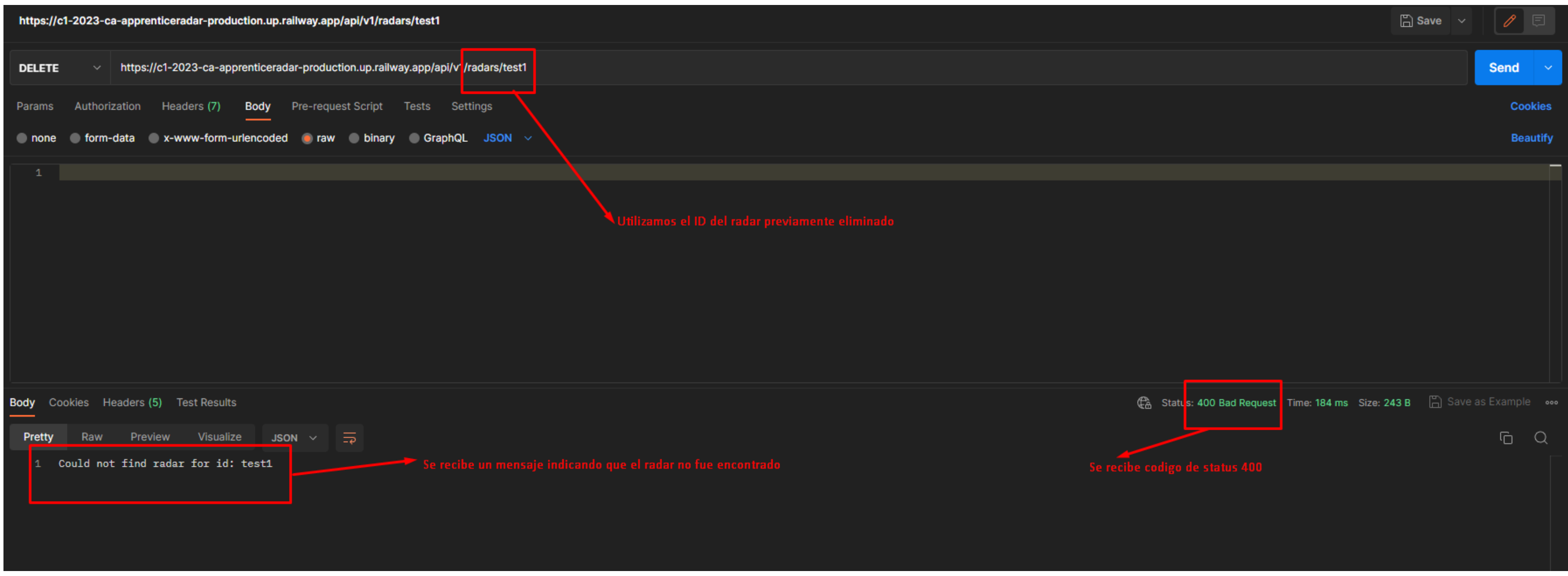


https://c1-2023-ca-apprenticeradar-production.up.railway.app/api/v1/radars/test1

DELETE https://c1-2023-ca-apprenticeradar-production.up.railway.app/api/v1/radars/test1

Status: 200 OK Time: 255 ms Size: 228 B

```
Deleted radar with id: test1
```



DELETE https://c1-2023-ca-apprenticeradar-production.up.railway.app/api/api/v1/radars/test1

Utilizamos el ID del radar previamente eliminado

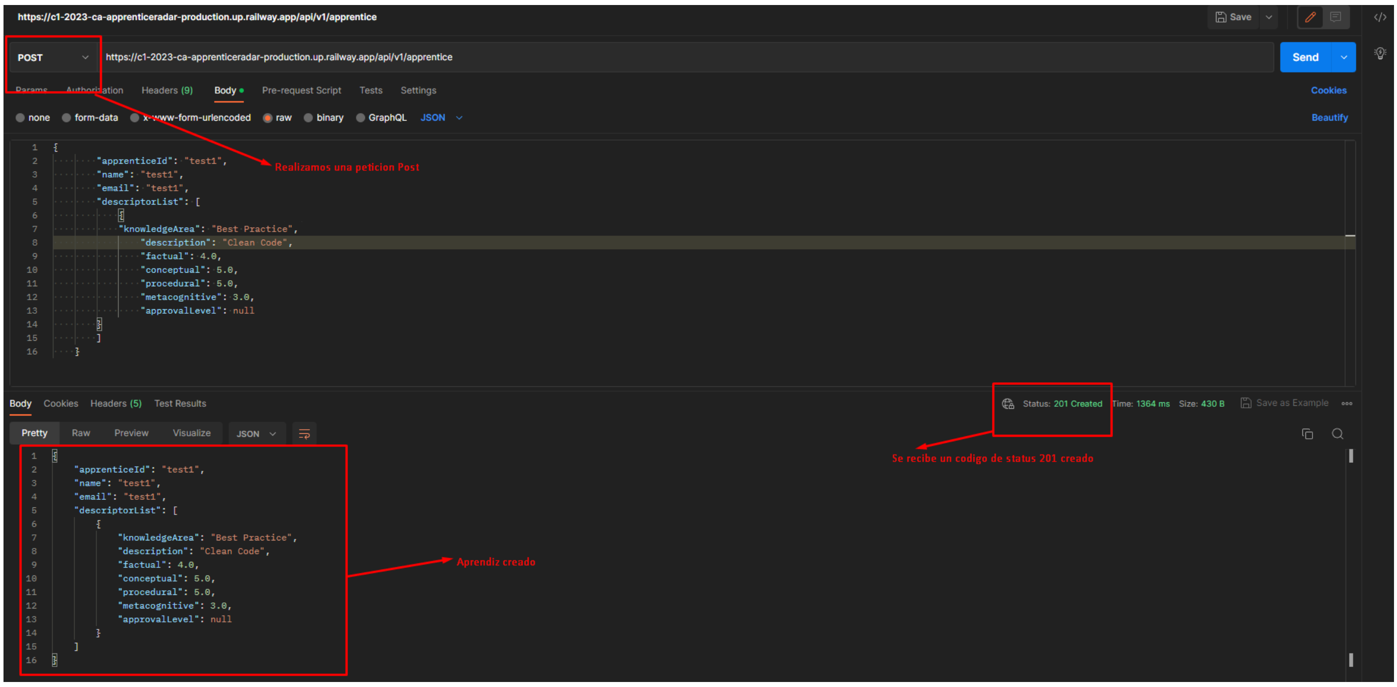
Status: 400 Bad Request Time: 184 ms Size: 243 B

```
Could not find radar for id: test1
```

Se recibe un mensaje indicando que el radar no fue encontrado

Se recibe codigo de status 400

- Scenario: Create Apprentice Postman



POST https://c1-2023-ca-apprenticeradar-production.up.railway.app/api/v1/apprentice

```
{
    "apprenticeId": "test1",
    "name": "test1",
    "email": "test1",
    "descriptorList": [
        {
        "knowledgeArea": "Best Practice",
            "description": "Clean Code",
            "factual": 4.0,
            "conceptual": 5.0,
            "procedural": 5.0,
            "metacognitive": 3.0,
            "approvalLevel": null
        }
    ]
}
```

Realizamos una peticion Post

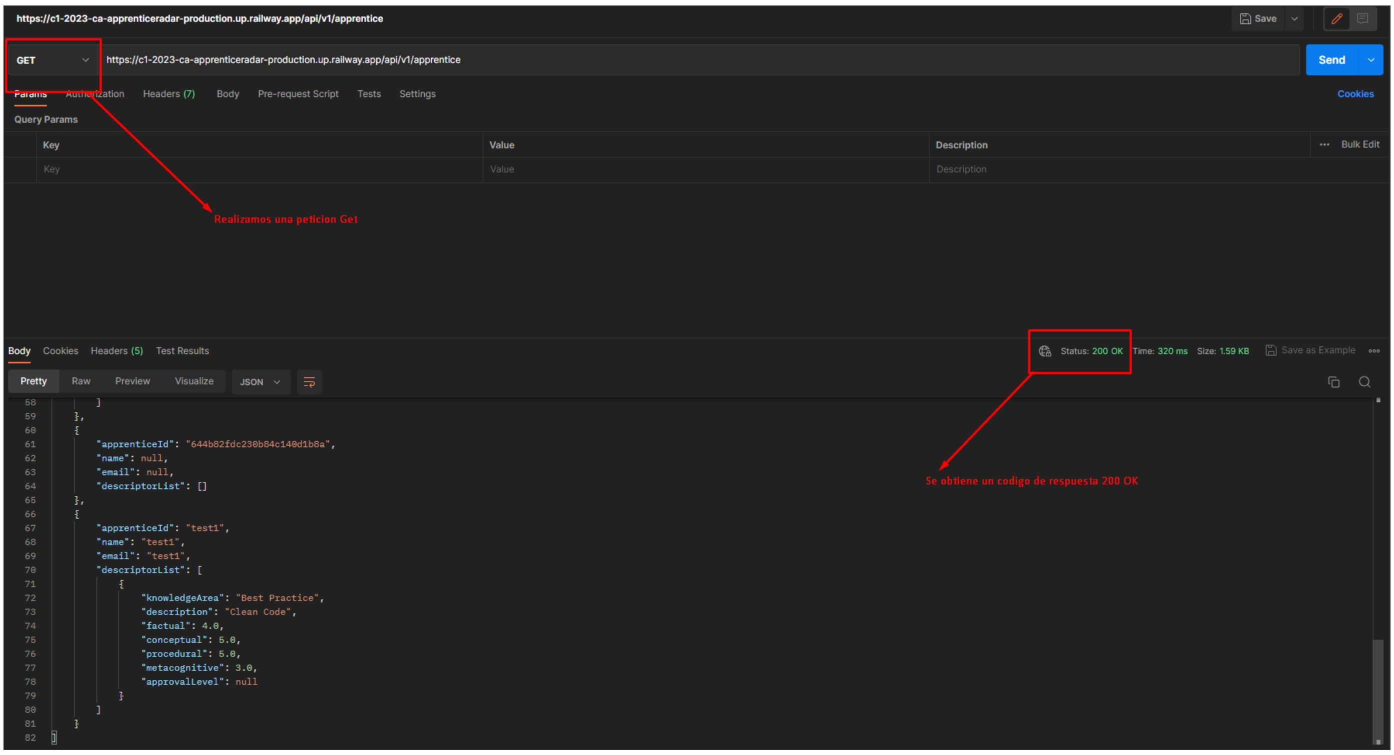
Status: 201 Created Time: 1364 ms Size: 430 B

```
{
    "apprenticeId": "test1",
    "name": "test1",
    "email": "test1",
    "descriptorList": [
        {
            "knowledgeArea": "Best Practice",
            "description": "Clean Code",
            "factual": 4.0,
            "conceptual": 5.0,
            "procedural": 5.0,
            "metacognitive": 3.0,
            "approvalLevel": null
        }
    ]
}
```

Se recibe un codigo de status 201 creado

Aprendiz creado

- Scenario: Check Apprentice List



https://c1-2023-ca-apprenticeradar-production.up.railway.app/api/v1/apprentice

GET https://c1-2023-ca-apprenticeradar-production.up.railway.app/api/v1/apprentice

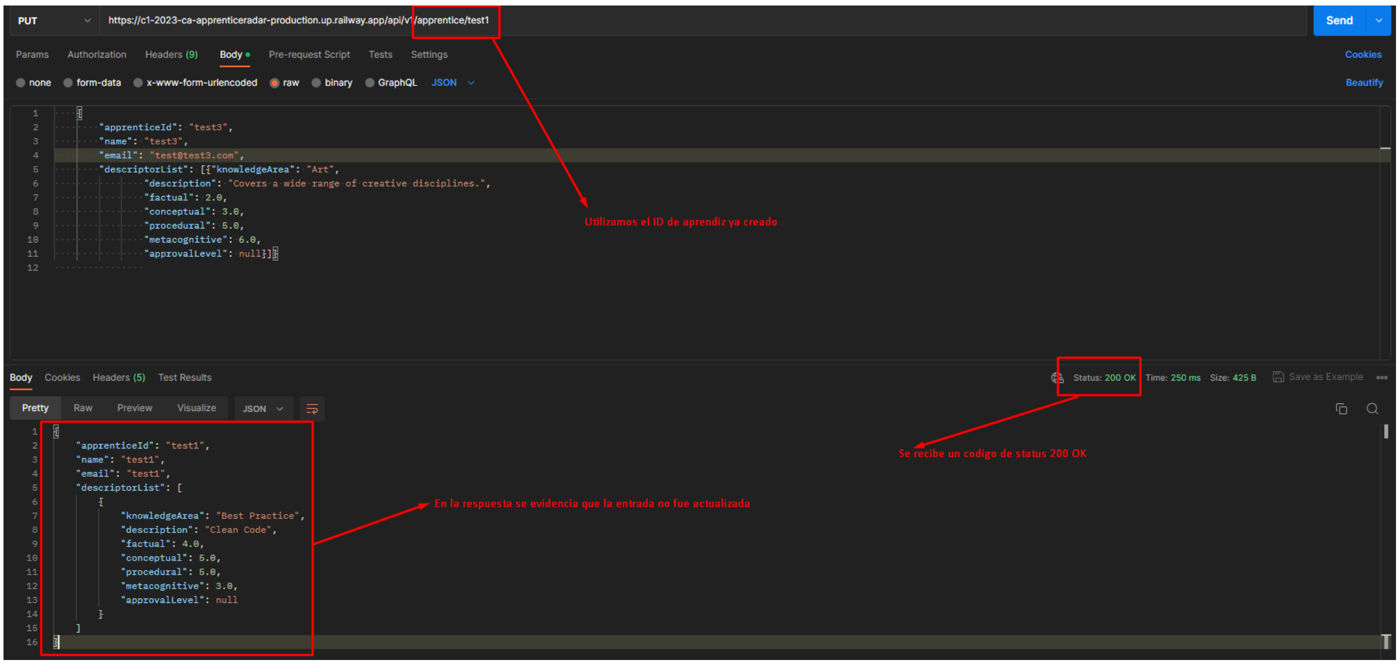
Realizamos una peticion Get

Status: 200 OK Time: 320 ms Size: 1.59 KB

Se obtiene un codigo de respuesta 200 OK

```
        ]
    },
    {
        "apprenticeId": "644b82fdc230b84c140d1b8a",
        "name": null,
        "email": null,
        "descriptorList": []
    },
    {
        "apprenticeId": "test1",
        "name": "test1",
        "email": "test1",
        "descriptorList": [
            {
                "knowledgeArea": "Best Practice",
                "description": "Clean Code",
                "factual": 4.0,
                "conceptual": 5.0,
                "procedural": 5.0,
                "metacognitive": 3.0,
                "approvalLevel": null
            }
        ]
    }
]
```

- Scenario: Update an apprentice Postman



PUT https://c1-2023-ca-apprenticeradar-production.up.railway.app/api/v1/apprentice/test1

```
{
    "apprenticeId": "test3",
    "name": "test3",
    "email": "test@test3.com",
    "descriptorList": [{"knowledgeArea": "Art",
            "description": "Covers a wide range of creative disciplines.",
            "factual": 2.0,
            "conceptual": 3.0,
            "procedural": 5.0,
            "metacognitive": 6.0,
            "approvalLevel": null}]}
```

Utilizamos el ID de aprendiz ya creado

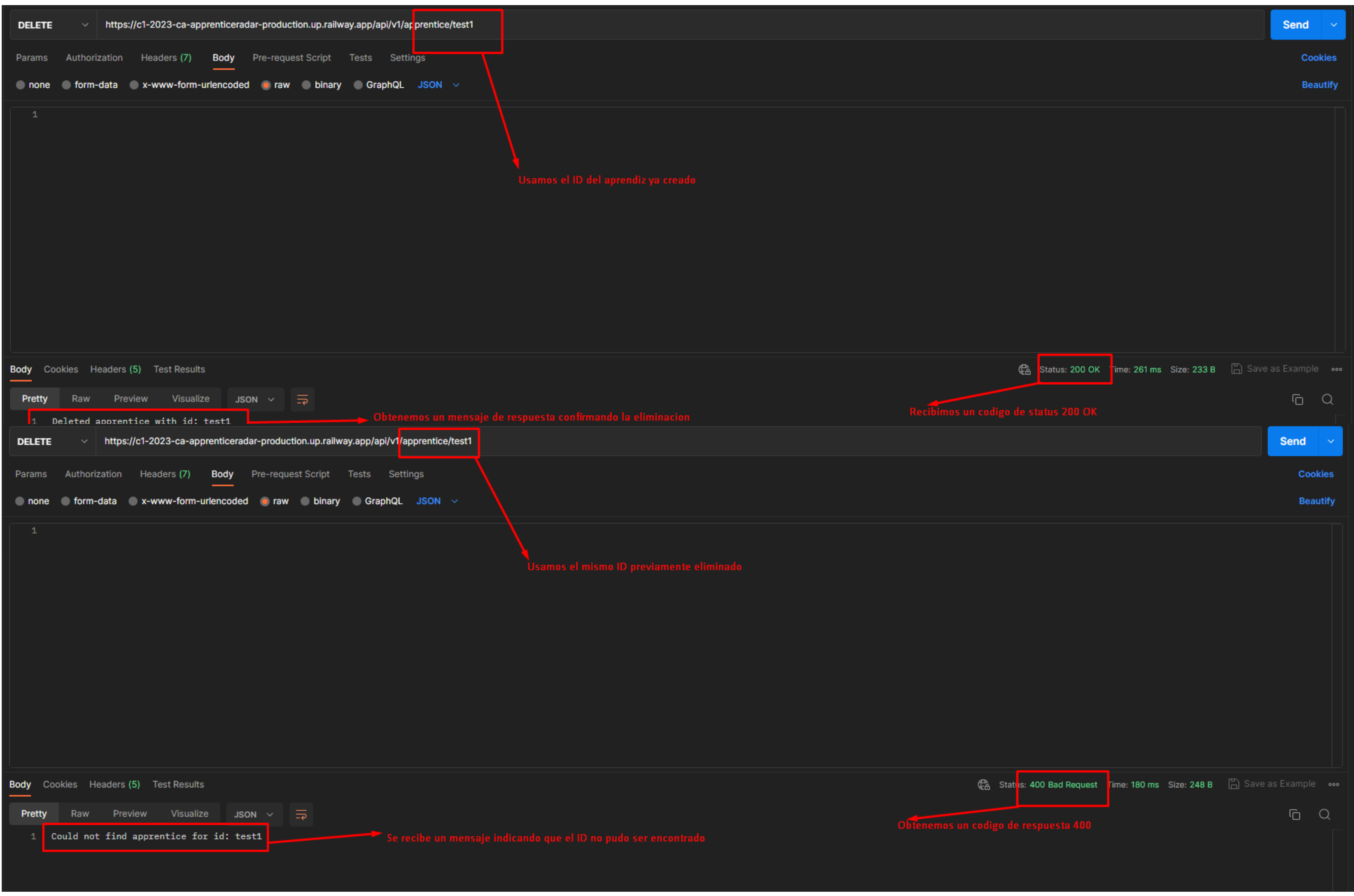
Status: 200 OK Time: 250 ms Size: 425 B

Se recibe un codigo de status 200 OK

```
{
    "apprenticeId": "test1",
    "name": "test1",
    "email": "test1",
    "descriptorList": [
        {
            "knowledgeArea": "Best Practice",
            "description": "Clean Code",
            "factual": 4.0,
            "conceptual": 5.0,
            "procedural": 5.0,
            "metacognitive": 3.0,
            "approvalLevel": null
        }
    ]
}
```

En la respuesta se evidencia que la entrada no fue actualizada

- Scenario: Delete an apprentice from the list



```
DELETE https://c1-2023-ca-apprenticeradar-production.up.railway.app/api/v1/apprentice/test1
```

Usamos el ID del aprendiz ya creado

Status: 200 OK Time: 261 ms Size: 233 B

```
Deleted apprentice with id: test1
```

Obtenemos un mensaje de respuesta confirmando la eliminacion

Recibimos un codigo de status 200 OK

```
DELETE https://c1-2023-ca-apprenticeradar-production.up.railway.app/api/v1/apprentice/test1
```

Usamos el mismo ID previamente eliminado

Status: 400 Bad Request Time: 180 ms Size: 248 B

```
Could not find apprentice for id: test1
```

Se recibe un mensaje indicando que el ID no pudo ser encontrado

Obtenemos un codigo de respuesta 400

Once we made validation of the state of the services provided for the Backend of the project, we were able to check the operation of most of them, in the case of the PUT request corresponding to the apprentices data, this does not update the corresponding entry, remaining with the data entered at the time of the creation of the entry. With the other requests made to the services, we were able to see that they perform CRUD operations in a satisfactory way, allowing us to work with the delivered services.