

User Stories

Feature 01: Obtain Bearer Token

As an API client

I want to obtain a bearer token using my username and password

So that I am authorised to use other API calls

Scenario 01.01: Request bearer token with correct username and password and verify status code of response

Given the endpoint `/Auth/login`

And the JSON body `{

"username": "sparta",

"password": "global"

}

When I send a POST request

Then the status code of the response should be 200

Scenario 01.02: Request bearer token with correct username and password and verify response body contains token

Given the endpoint `/Auth/login`

And the JSON body `{

"username": "sparta",

"password": "global"

}

When I send a POST request

Then the response body should include a bearer token

Scenario 01.03: Request bearer token with incorrect username and verify status code of response

Given the endpoint `/Auth/login`

And the JSON body `{

"username": "string",

"password": "global"

}

When I send a POST request
Then the status code of the response should be 401

Scenario 01.04: Request bearer token with incorrect username and verify response body doesn't contain token

Given the endpoint `/Auth/login`
And the JSON body `{`
"username": "string",
"password": "global"
}
When I send a POST request
Then the response body should not include a bearer token

Scenario 01.05: Request bearer token with incorrect password and verify status code of response

Given the endpoint `/Auth/login`
And the JSON body `{`
"username": "sparta",
"password": "string"
}
When I send a POST request
Then the status code of the response should be 401

Scenario 01.06: Request bearer token with incorrect password and verify response body doesn't contain token

Given the endpoint `/Auth/login`
And the JSON body `{`
"username": "sparta",
"password": "string"
}
When I send a POST request
Then the response body should not include a bearer token

Feature 02: Courses endpoint

As a API client
I want to request a list of all courses currently running in the Sparta academy

So that I can see what courses are running, who is their trainer, and which trainee Spartans are on them

Scenario 02.01: Get all courses with auth

Given I have obtained a bearer token

And the endpoint `/api/Courses`

When I send a GET request

Then the response status code should be 200

Scenario 02.02: Get all courses without auth

Given I have not obtained a bearer token

And the endpoint `/api/Courses`

When I send a GET request

Then the response status code should be 401

Feature 03: Get single course

As an API client

I want to request information about specific courses currently running in the Sparta academy

So that I can see who is the trainer, and which trainee Spartans are on a course

Scenario 03.01: Request an existing course by ID and verify status code of response

Given I have obtained a bearer token

And the endpoint `/api/Courses/{id}`

And the id path param set as 1

When I send a GET request

Then the response status code should be 200

Scenario 03.02: Request an existing course by ID and verify request body contains requested data

Given I have obtained a bearer token

And the endpoint `/api/Courses/{id}`

And the id path param set as 1

When I send a GET request

Then the response body should contain the info for the TECH 300 course

Scenario 03.03: Request a non-existing course by ID

Given I have obtained a bearer token
And the endpoint `/api/Courses/{id}`
And the id path param set as 0
When I send a GET request
Then the response status code should be 404

Scenario 03.04: Request an existing course by ID without auth

Given I have not obtained a bearer token
And the endpoint `/api/Courses/{id}`
And the id path param set as 1
When I send a GET request
Then the response status code should be 401

Scenario 03.05: Request a course with invalid ID

Given I have obtained a bearer token
And the endpoint `/api/Courses/{id}`
And the id path param set as "string"
When I send a GET request
Then the status code of the response should be 400

Feature 04: Get all Spartans

As a API client
I want to request a list of all Spartans
So that I can see information about all Spartans in the academy

Scenario 04.01: Get all Spartans with auth

Given I have obtained a bearer token
And the endpoint `/api/Spartans`
When I send a GET request
Then the status code of the response should be 200

Scenario 04.02: Get all Spartans without auth

Given I have not obtained a bearer token
And the endpoint `/api/Spartans`
When I send a GET request
Then the status code of the response should be 401

Feature 05: create Spartan

As an API client
I want to be able to add new Spartans to the system
So that API clients can access their data

Scenario 05.01: create Spartan with valid data and verify status code

Given I have obtained a bearer token
And the endpoint `/api/Spartans`
When I send a POST request with body containing **all** the **valid** data required:
Then the status code of the response should be 200

Scenario 05.02: create Spartan with valid data and verify response body matches request data

Given I have obtained a bearer token
And the endpoint `/api/Spartans`
When I send a POST request with body containing **all** the **valid** data required:
Then the data in the response body should match the data provided in the request

Scenario 05.03: create Spartan with valid data and verify it appears in subsequent GET requests

Given I have obtained a bearer token
And the endpoint `/api/Spartans`
When I send a POST request with body containing **all** the **valid** data required:
Then the Spartan should appear in a subsequent GET request to the endpoint `/api/Spartans`

Scenario 05.04: create Spartan with invalid data and verify response status code

Given I have obtained a bearer token
And the endpoint `/api/Spartans`

When I send a POST request with body containing some invalid (*missing or incorrect data type*) data
Then the status code of the response should be 400

Scenario 05.05: create Spartan with invalid data and verify Spartan isn't added to database

Given I have obtained a bearer token

And the endpoint `/api/Spartans`

When I send a POST request with body containing some invalid (*missing or incorrect data type*) data

Then the Spartan should not appear in subsequent GET requests to the endpoint `/api/Spartans`

Scenario 05.06: create Spartan with invalid data and check response for descriptive error message

Given I have obtained a bearer token

And the endpoint `/api/Spartans`

When I send a POST request with body containing some invalid (*missing or incorrect data type*) data

Then the response should include a descriptive error message

Feature 06: Get single Spartan

As a API client

I want to request information about a specific Spartan

So that I can quickly access their data

Scenario 06.01: Request existing Spartan by ID and verify status code of response

Given I have obtained a bearer token

And the endpoint `/api/Spartans/{id}`

And the path param `id` set as 1

When I make a GET request

Then the status code of the response should be 200

Scenario 06.02: Request existing Spartan by ID and verify response body contains requested data

Given I have obtained a bearer token

And the endpoint `/api/Spartans/{id}`

And the path param `id` set as 1

When I make a GET request
Then the response body should contain information about Sparty McFly

Scenario 06.03: Request a non-existing Spartan by ID

Given I have obtained a bearer token
And the endpoint `/api/Spartans/{id}`
And the path param `id` set as 0
Then the status code of the response should be 404

Scenario 06.04: Request Spartan with invalid ID

Given I have obtained a bearer token
And the endpoint `/api/Spartans/{id}`
And the id path param set as "string"
When I send a GET request
Then the status code of the response should be 400

Feature 07: Delete Spartan

As an API client
I want to be able to delete a Spartan's data when they leave the company
So that Sparta adheres to GDPR regulations

Scenario 07.01: delete an existing Spartan by ID and verify status code

Given I have obtained a bearer token
And the endpoint `/api/Spartans/{id}`
And the `id` path param set as 2
When I send a DELETE request
Then the status code of the response should be 204

Scenario 07.02: delete an existing Spartan by ID and verify Spartan no longer exists in database

Given I have obtained a bearer token
And the endpoint `/api/Spartans/{id}`
And the `id` path param set as 2

When I send a DELETE request

Then the status code of the response to a subsequent GET request to the endpoint `/api/Spartans/2` should be 404

Scenario 07.03: delete a non-existing Spartan

Given I have obtained a bearer token

And the endpoint `/api/Spartans/{id}`

And the `id` path param set as 0

When I send a DELETE request

Then the status code of the response should be 404

Feature 08: Update Spartan

As an API client

I want to be able to update an existing Spartan's data

To keep it accurate

Scenario 08.01: update existing Spartan with valid data and verify status code of response

Given I have obtained a bearer token

And the endpoint `api/Spartans/{id}`

And the `id` path param set as 1

When I send a PUT request with body containing all existing data for Spartan with ID 1 apart from the `graduated` field set to `true`

Then the status code of the response should be 200

Scenario 08.02: update existing Spartan with valid data and verify database is updated correctly

Given I have obtained a bearer token

And the endpoint `api/Spartans/{id}`

And the `id` path param set as 1

When I send a PUT request with body containing all existing data for Spartan with ID 1 apart from the `graduated` field set to `true`

Then the `graduated` field of the response body from a subsequent GET request to the endpoint `/api/Spartans/1` should be `true`

Scenario 08.03: update existing Spartan with invalid (*missing/incorrect data type*) data and verify status code of

response

Given I have obtained a bearer token

And the endpoint `api/Spartans/{id}`

And the `id` path param set as 1

When I send a PUT request with body containing all existing data for Spartan with ID 1 apart from the `graduated` field missing

Then the status code of the response should be 400

Scenario 08.04: update existing Spartan with invalid (*missing/incorrect data type*) data and verify database isn't updated

Given I have obtained a bearer token

And the endpoint `api/Spartans/{id}`

And the `id` path param set as 1

When I send a PUT request with body containing all existing data for Spartan with ID 1 apart from the `graduated` field missing

Then the `graduated` field of the response body from a subsequent GET request to the endpoint `/api/Spartans/1` should be `false`

Scenario 08.05: update non-existing Spartan

Given I have obtained a bearer token

And the endpoint `api/Spartans/{id}`

And the `id` path param set as 0

When I send a PUT request with body containing all existing data for Spartan with ID 1 apart from the `graduated` field set as `true`

Then the status code of the response should be 404

Scenario 08.06: update existing Spartan's ID to already taken ID

Given I have obtained a bearer token

And the endpoint `api/Spartans/{id}`

And the `id` path param set as 1

When I send a PUT request with body containing all existing data for Spartan with ID 1 apart from the `id` field set to 2

Then the status code of the response should be 400