

Bug Report API

Disclaimer:

Since API Contract is defined as it is, we could say there is no defects in the API, but there are some enhancements that could cover some issues.

Enhancements

Summary: Prevent re-deletion of already deleted employee (DELETE)

Reported by: Daniel Galicia

Date: 29 Aug 2025

Severity: Medium

Priority: High

Proposal: Once an employee is deleted, the API should return status 404 (Not Found) or status 410 (Gone) when a delete request is made on the same resource, so it prevents confusion for API consumers and ensures consistent state management.

Steps to reproduce:

1. Using the API request DELETE, send the request with parameter of an existing ID
2. Send the same delete request again

Expected results:

The API should return status 404 (Not Found) or status 410 (Gone) when a delete request is made to the same employee.

Actual results

Deleted items can be requested for deletion again and the API returns a success status even though the resource no longer exists

Summary: Correct response for non-existing employee lookup (GET)

Reported by: Daniel Galicia

Date: 29 Aug 2025

Severity: High

Priority: High

Proposal: If user looks for a non-existing employee, return status 404 (Not Found) with a clear error message pointing that employee does not exist

Steps to reproduce:

1. Using the API Request to GET an employee, send the request with parameter ID with a non-existing ID

Expected results:

Return status 404 (Not Found) with a clear error message pointing that employee does not exist

Actual results

Returns 200 OK even when the user does not exist.

Summary: Clear distinguish between PUT (Update) and POST (Create)

Reported by: Daniel Galicia

Date: 29 Aug 2025

Severity: High

Priority: Medium

Proposal: PUT should only update existing employees. If the employee does not exist, return status 404 (Not Found). Employee creation should only be allowed via POST, so it aligns with RESTful standards and prevents unintended record creation.

Steps to reproduce:

1. Using the API PUT request, send the request with parameter ID with a non-existing ID

Expected results:

PUT request returns status 404 (Not Found).

Actual results

PUT request creates a new employee if the ID does not exist with status 200 OK

Summary: Salary validation logic

Reported by: Daniel Galicia

Date: 29 Aug 2025

Severity: Low

Priority: Low

Proposal: Enforce consistent salary validation, according with current logic, creation sets the salary to 52000. Reject requests if salary \neq 52000, If updates are not allowed, return status 400 (Bad Request) with validation error, so it prevents inconsistent salary rules.

Steps to reproduce:

1. Using the API PUT request, send a valid ID as parameter and set the attribute for Salary other than 52000

Expected results:

PUT request returns status 400 (Bad Request) with validation error

Actual results

PUT request sets the salary to other than 52000 with status 200 OK