

# Bug report

## Introduction

I have approached the assigned with focus to demonstrate different types of testing strategies and thinking behind exploratory testing that would be suitable for this challenge. I tried to provide examples of issues on API and UI level, different bug categories from UX issues, functional, copy issues and how I would assess them. I also provided additional information including some attachments in form of screenshot, although in some cases screen recording would showcase the issue in an easier manner. I also added some additional information like environment, that is not necessary in this example, but demonstrates the way how I would structure the proper bug report.

I also only tested the app in a single browser of choice (Chrome in this case), where valid strategy for testing the UX and visual part of the app would probably include cross-browser testing or testing on different devices (desktop, mobile).

## General feedback

For the requirements and user story, I would try to clarify the acceptance criteria for the scenarios as soon as possible (e.g. trying to specify what are the employee details, are there any limits for employees count or how should we approach ordering etc.), as those missing details can later on lead to unnecessary bugs after development and slow down the overall delivery of the feature.

As for the Benefits dashboard app, I would point out some general UX feedback I collected during testing.

- There is no possibility of sorting or filtering (e.g. search)
- There are no tooltips
- There are no toast messages for user interaction
- There is no possibility to add multiple employees easily (e.g. batch upload through csv or xlsx)
- Based on user story I would expect to see the total benefits cost somewhere

## Issues Created

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### BUG-001: First name and Last name switched in Benefits dashboard table 🐛

#### Summary

First name and Last name switched in Benefits dashboard table

#### Description

When the user creates new employee or updates an existing employee, the First name and Last name values specified are switched in the benefits dashboard table

#### Environment

- **Browser:** Chrome
- **Environment:** Staging

#### Severity: Critical

#### Bug Type: Functional

#### Steps to Reproduce

1. Click Add Employee
2. Fill in First name and Last name
3. Fill all other mandatory values
4. Click Add button

#### Expected Behavior

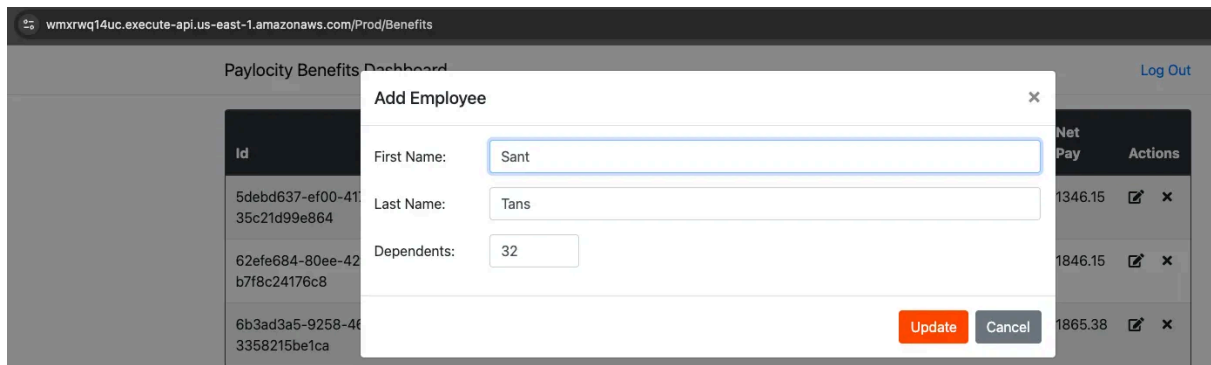
New employee is created with all values correctly displayed in the benefits dashboard table

#### Actual Behavior

Employee first name and lasted name is switched for the employee in the benefits dashboard table

#### Additional Notes

This is a critical bug as it affects data integrity and could lead to confusion when managing employee records.



Paylocity Benefits Dashboard									Log Out
Id	Last Name	First Name	Dependents	Salary	Gross Pay	Benefits Cost	Net Pay	Actions	
5debd637-ef00-417d-a315-35c21d99e864	Sant	Tans	32	52000.00	2000.00	653.85	1346.15		

## BUG-002: No validation message for invalid 'dependents' in Add employee modal 🐛

### Summary

No validation message for invalid 'dependents' in Add employee modal

### Description

When the user is creating new employee or updating employee details, he gets no validation message if invalid value is provided for "dependents". Any value that does not fall between 0 and 32 is considered invalid, but there is no indication for user about this limit.

### Environment

- **Browser:** Chrome
- **Environment:** Staging

### Severity: High

### Bug Type: UX

### Steps to Reproduce

1. Login to the benefits dashboard app
2. Click Add Employee button
3. Fill 'Dependents' field with value 50

4. Click Add button

### Expected Behavior

Validation message appears under the 'Dependents' field (e.g. Value must be between 0 and 32) and Add button is disabled

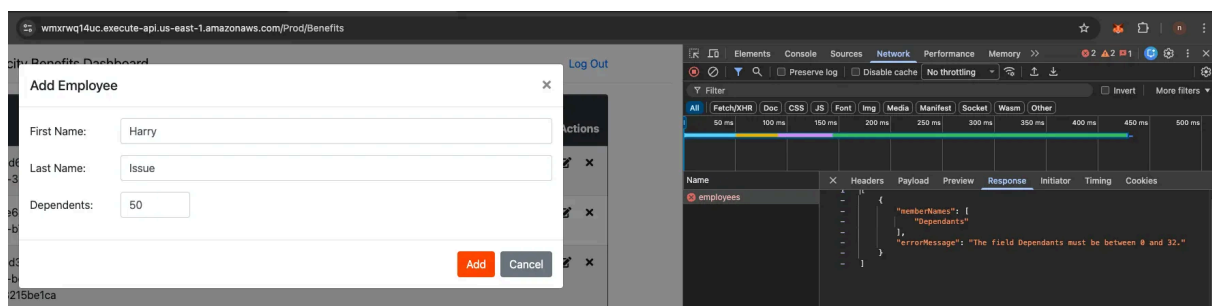
### Actual Behavior

Nothing happens - modal does not disappear, no validation message appears and employee is not created

### Additional Notes

This creates a poor user experience as users have no feedback about why their action failed or what the valid range is.

```
[
  {
    "memberNames": [
      "Dependants"
    ],
    "errorMessage": "The field Dependants must be between 0 and 32."
  }
]
```



## BUG-003: User not logged-out automatically after session expires 🐛

### Summary

User not logged-out automatically after session expires

### Description

When the user is inactive for some time and session expires, instead of force logging out the user and redirect him back to the login page, it allows the user to stay in the app but prohibits any actions.

This results to the user not being able to add, update or delete employees and always returns 401 - Unauthorized error when trying to do so, however user is not notified by any error message in the front-end which leads to confusing and user not knowing why he can't perform any actions.

### **Environment**

- **Browser:** Chrome
- **Environment:** Staging

### **Severity: Critical**

### **Bug Type:** Functional

### **Steps to Reproduce**

1. Login to the benefits dashboard
2. Open another tab and wait
3. Go back to the benefits dashboard and try to add, update or delete an employee

### **Expected Behavior**

If the session expires, user should be forced logged out and redirected to the login screen

### **Actual Behavior**

Session expires, user is no longer able to do any actions and back-end returns 401 - Unauthorized

### **Additional Notes**

This is a critical security and UX issue. Users should be automatically redirected to the login page when their session expires, with a clear message explaining why.

Response:

```
{
  "type": "https://tools.ietf.org/html/rfc7235#section-3.1",
```

```
    "title": "Unauthorized",
    "status": 401,
    "traceId": "0HNJ7QTP35FSR"
}
```

Request:

```
curl 'https://wmxrwq14uc.execute-api.us-east-1.amazonaws.com/Prod/api/employees' \
  -H 'accept: application/json, text/javascript, */*; q=0.01' \
  -H 'accept-language: cs,en;q=0.9,en-US;q=0.8,pl;q=0.7' \
  -H 'content-type: application/json; charset=UTF-8' \
  -b '.AspNetCore.Antiforgery.Asw4q1BB7-Y=CfDJ8InyMlkMvVtAv
g9Ah9eDHHG4Ay1cofv0-XcJcHiGptuKrKKz328nU-Z0Ki5TaCHCB9ocTnMq
FE6usqUJIv7PBIiPljNU8Chd9klPSX2PrGcbS6nA3pcDggL82uVxMG7-gUU
e60T_RDxtAB_S1ZM6SEI; .AspNetCore.Cookies=CfDJ8InyMlkMvVtAv
g9Ah9eDHHEoi1K9w82kVKmDuYsjZaKNbe-nQtF_G6naq8aFpmaDAJFq0g8u
FdGJARQaIgLfwq_K8KMbDNAYCiqTK0apZsn7LCvNL027NkWzrmda5TZHl3E
3JeGRZHLskiqVb09lwIlp2Q40yy6qd1n1Kw1vuILvBjfmv0fuiGFWtGgmIq
K14mJAWP9mNrJ2wFlaXWtqlWkkX44itNDv1QPGCPqXKU4sU9feQtJxBMnPO
z7YgAW7foUR3Fwst0pFwlffDJkc2iSzHW7SHnN5b5J5ybL3mV30' \
  -H 'origin: https://wmxrwq14uc.execute-api.us-east-1.amaz
onaws.com' \
  -H 'priority: u=1, i' \
  -H 'referrer: https://wmxrwq14uc.execute-api.us-east-1.ama
zonaws.com/Prod/Benefits' \
  -H 'sec-ch-ua: "Not(A:Brand";v="8", "Chromium";v="144",
"Google Chrome";v="144"' \
  -H 'sec-ch-ua-mobile: ?0' \
  -H 'sec-ch-ua-platform: "macOS"' \
  -H 'sec-fetch-dest: empty' \
  -H 'sec-fetch-mode: cors' \
  -H 'sec-fetch-site: same-origin' \
  -H 'user-agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10
_15_7) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/144.0.
0.0 Safari/537.36' \
  -H 'x-requested-with: XMLHttpRequest' \
```

```
--data-row '{"firstName":"e","lastName":"r","dependants":0}'
```

## BUG-004: Employees are ordered by Id in the benefits dashboard table 🐛

### Summary

Employees are ordered by Id in the benefits dashboard table

### Description

When the user adds a new employee record, the benefits dashboard table is updated with the new employee, however the table is ordered by Id (random uuid generated), which results in the new record not added as a last record, but based on the Id value.

This can cause the record to appear in the middle of the table, which is not the best UX for the user, as it can get harder to find the new record as the table grows.

Preffered approach would be to see the latest record as last position, or allow the user to choose the ordering.

### Environment

- **Browser:** Chrome
- **Environment:** Staging

### Severity: Medium

### Bug Type: UX

### Steps to Reproduce

1. Login to the benefits dashboard app
2. Add at least 2 new employees

### Expected Behavior

The new employee is always added as the last record in the table

### Actual Behavior

The employees are ordered by Id

### Additional Notes

Consider implementing default sorting by creation date (newest last) or providing users with the ability to sort by different columns.

wmxrq14uc.execute-api.us-east-1.amazonaws.com/Prod/Benefits

Paylocity Benefits Dashboard [Log Out](#)

Id	Last Name	First Name	Dependents	Salary	Gross Pay	Benefits Cost	Net Pay	Actions
5debd637-ef00-417d-a315-35c21d99e864	Sant	Tans	32	52000.00	2000.00	653.85	1346.15	
62efe684-80ee-42f9-bde1-b7f8c24176c8	Odam	Mada	6	52000.00	2000.00	153.85	1846.15	
6b3ad3a5-9258-46fd-bc7c-3358215be1ca	Test	13	5	52000.00	2000.00	134.62	1865.38	
7493d839-5f3d-4726-ad00-812167014469	123	456	10	52000.00	2000.00	230.77	1769.23	
7658c191-6380-4745-bdb3-18ff4ecbf48c	Brad	Darb	14	52000.00	2000.00	307.69	1692.31	
791408a1-d340-44a6-8de8-bae3872b9bed	User 5	5	0	52000.00	2000.00	38.46	1961.54	
841d7078-82e8-4542-82a4-682449a126a3	Hubert	Trebuh	18	52000.00	2000.00	384.62	1615.38	
b4c5988d-6056-4dfb-adc0-b441e03ec0b8	User	2	0	52000.00	2000.00	38.46	1961.54	
cb49559c-e761-4da4-9b27-f3c94cfad458	Jim	Mij	11	52000.00	2000.00	250.00	1750.00	
f3967c4d-798d-4565-aca1-13fef550c520	Joe	Doe	9	52000.00	2000.00	211.54	1788.46	

Add Employee

## BUG-005: Wrong header for Update employee modal



### Summary

Wrong header for Update employee modal

### Description

When the user is updating an existing employee, the header in the update modal says "Add Employee" instead of "Update Employee" or "Edit Employee"

### Environment

- **Browser:** Chrome
- **Environment:** Staging

**Severity:** Low

**Bug Type:** Copy



## Steps to Reproduce

1. Create new employee
2. Click Update employee button in Actions column in benefits dashboard table

## Expected Behavior

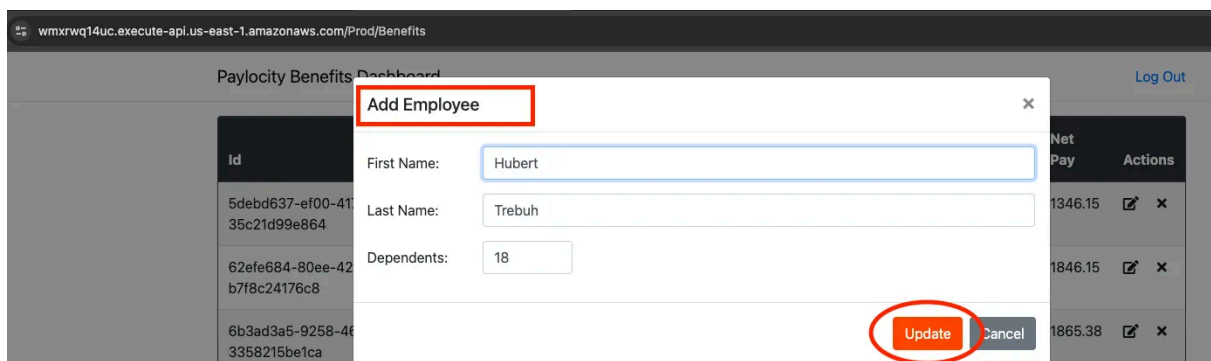
Update modal opens with correct header - "Update Employee"

## Actual Behavior

Update modal opens with incorrect header - "Add Employee"

## Additional Notes

While low severity, this copy error could cause user confusion about whether they are creating a new employee or updating an existing one.



## BUG-006: Username property should be required for successful POST request 🐛

### Summary

Username property should be required for successful POST request

### Description

When calling the POST request to add employees, the request returns successful response with http code 200 even though the "username" property is missing. In the API schema the username is a required property so the request should fail and return with 4xx code and error message.

### Environment

- **Browser:** Chrome

- **Environment:** Staging

**Severity:** Low

**Bug Type:** Api

### Steps to Reproduce

1. Send POST request to /api/employees endpoint without username property

```
curl --location 'https://wmxrwl4uc.execute-api.us-east-1.amazonaws.com/Prod/api/Employees' \
--header 'Content-Type: application/json' \
--header 'Authorization: Basic VGVzdFVzZXI4ODQ6OFs2aE0yW3N5RnMr' \
--data '{
  "firstName": "test",
  "lastName": "user",
  "dependants": 2
}'
```

### Expected Behavior

Request fails and returns response with http code 4xx and error message.

### Actual Behavior

Request is successful

### Additional Notes

Response:

```
{
  "partitionKey": "TestUser884",
  "sortKey": "12ff0170-4e7f-42b3-b4ef-9bc77287558a",
  "username": "TestUser884",
  "id": "12ff0170-4e7f-42b3-b4ef-9bc77287558a",
  "firstName": "test",
  "lastName": "user",
  "dependants": 2,
  "salary": 52000,
  "gross": 2000,
  "benefitsCost": 76.92308,
```

```
"net": 1923.0769  
}
```