

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 asses 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

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 last 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

Add Employee

Id	First Name:	Last Name:	Dependents:	Net Pay	Actions
5debd637-ef00-4135c21d99e864	Sant	Tans	32	1346.15	<input checked="" type="checkbox"/> <input type="button" value="x"/>
62efe684-80ee-42b7f8c24176c8				1846.15	<input checked="" type="checkbox"/> <input type="button" value="x"/>
6b3ad3a5-9258-463358215be1ca				1865.38	<input checked="" type="checkbox"/> <input type="button" value="x"/>

Update Cancel

Paylocity Benefits Dashboard

Id	Last Name	First Name	Dependents	Salary	Gross Pay	Benefits Cost	Net Pay	Actions
5debd637-ef00-4135c21d99e864	Sant	Tans	32	52000.00	2000.00	653.85	1346.15	<input checked="" type="checkbox"/> <input type="button" value="x"/>

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

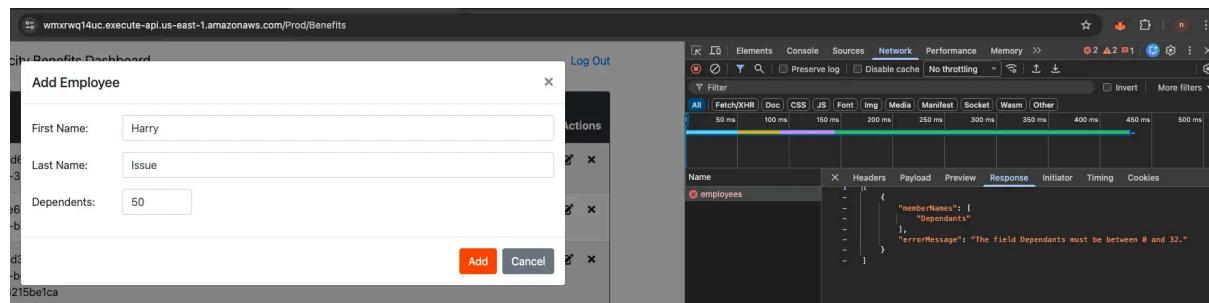
Actual Behavior

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 Dependents must be betwe  
en 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=CfDJ8InyMlkMVVtAvg9Ah9eDHHG4Ay1cofv0-XcJcHiGptuKrKKz328nU-Z0Ki5TaCHCB9ocTnMqFE6usqUJIv7PBIiP1jNU8Chd9klPSX2PrGcbS6nA3pcDggL82uVxMG7-gUUe60T_RXtAB_S1ZM6SEI; .AspNetCore.Cookies=CfDJ8InyMlkMVVtAvg9Ah9eDHHEoi1K9w82kVKmDuYsjZaKNbe-nQtF_G6naq8aFpmaDAJFq0g8uFdGJARQaIgLfWq_K8KMbDNAyCiqTK0apZsn7LCvNL027NkWzrmda5TZHl3E3JeGRZHlskiqVb091wIlp2Q40yy6qd1n1Kw1vuILvBjfmv0fuiGFWtGgmIqK14mJAWP9mNrJ2wFlaXWtqlWkkX44itNDv1QPGCPqXKU4sU9feQtJxBMnP0z7YgAw7foUR3Fwst0pFwlffDJkc2iSzHW7SHnN5b5J5ybL3mV30' \
-H 'origin: https://wmxrwq14uc.execute-api.us-east-1.amazonaws.com' \
-H 'priority: u=1, i' \
-H 'referer: https://wmxrwq14uc.execute-api.us-east-1.amazonaws.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-raw '{"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.

Preferred 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

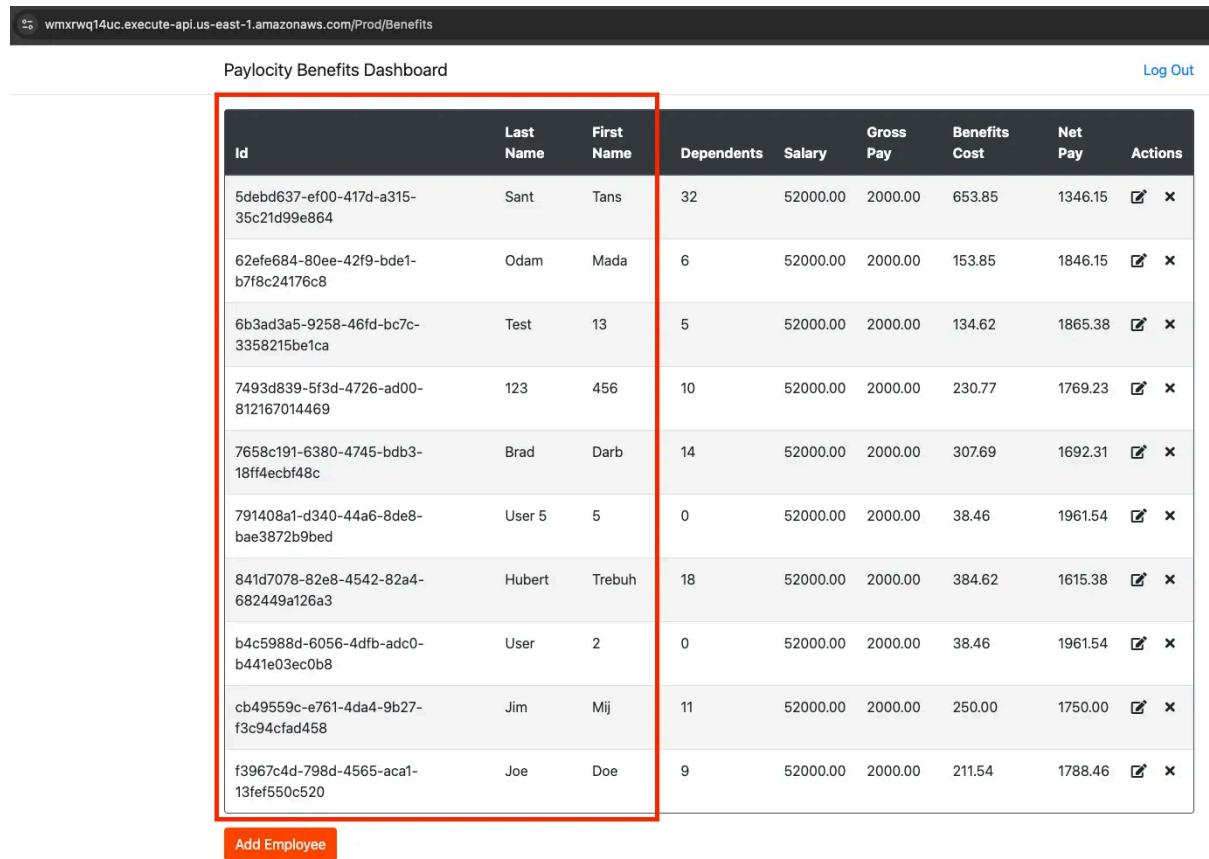
The new employee is always added as the last record in the table

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.



The screenshot shows a web application interface for a 'Paylocity Benefits Dashboard'. At the top, there's a dark header bar with the URL 'wmxrwq14uc.execute-api.us-east-1.amazonaws.com/Prod/Benefits' and a 'Log Out' link. Below the header is the dashboard title 'Paylocity Benefits Dashboard'. The main content is a table with the following columns: Id, Last Name, First Name, Dependents, Salary, Gross Pay, Benefits Cost, Net Pay, and Actions. A red box highlights the first column, 'Id'. The table contains ten rows of employee data. At the bottom left of the table area is a red button labeled 'Add Employee'.

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	<input checked="" type="checkbox"/> <input type="button" value="X"/>
62efe684-80ee-42f9-bde1-b7f8c24176c8	Odam	Mada	6	52000.00	2000.00	153.85	1846.15	<input checked="" type="checkbox"/> <input type="button" value="X"/>
6b3ad3a5-9258-46fd-bc7c-3358215be1ca	Test	13	5	52000.00	2000.00	134.62	1865.38	<input checked="" type="checkbox"/> <input type="button" value="X"/>
7493d839-5f3d-4726-ad00-812167014469	123	456	10	52000.00	2000.00	230.77	1769.23	<input checked="" type="checkbox"/> <input type="button" value="X"/>
7658c191-6380-4745-bdb3-18ff4ecbf48c	Brad	Darb	14	52000.00	2000.00	307.69	1692.31	<input checked="" type="checkbox"/> <input type="button" value="X"/>
791408a1-d340-44a6-8de8-bae3872b9bed	User 5	5	0	52000.00	2000.00	38.46	1961.54	<input checked="" type="checkbox"/> <input type="button" value="X"/>
841d7078-82e8-4542-82a4-682449a126a3	Hubert	Trehuh	18	52000.00	2000.00	384.62	1615.38	<input checked="" type="checkbox"/> <input type="button" value="X"/>
b4c5988d-6056-4dfb-adc0-b441e03ec0b8	User	2	0	52000.00	2000.00	38.46	1961.54	<input checked="" type="checkbox"/> <input type="button" value="X"/>
cb49559c-e761-4da4-9b27-f3c94cfad458	Jim	Mij	11	52000.00	2000.00	250.00	1750.00	<input checked="" type="checkbox"/> <input type="button" value="X"/>
f3967c4d-798d-4565-aca1-13feff50c520	Joe	Doe	9	52000.00	2000.00	211.54	1788.46	<input checked="" type="checkbox"/> <input type="button" value="X"/>

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

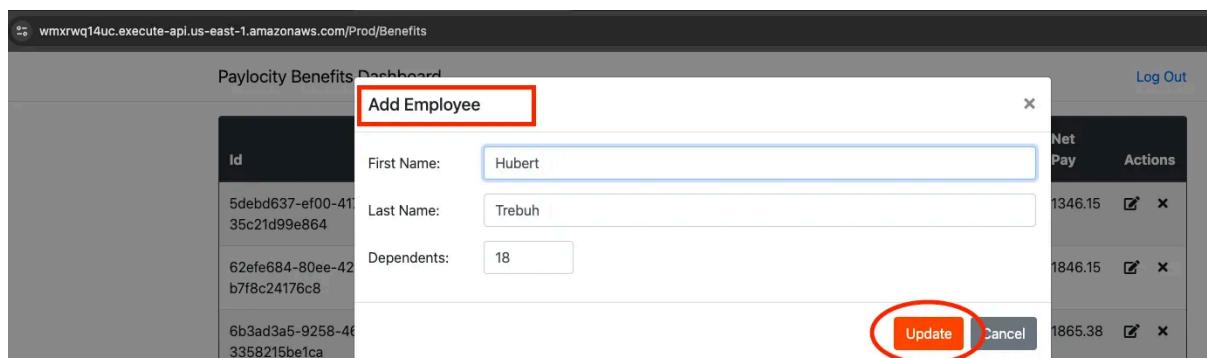
Update modal opens with correct header - "Update Employee"

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://wmxrwq14uc.execute-api.us-east-1.amazonaws.com/Prod/api/Employees' \
--header 'Content-Type: application/json' \
--header 'Authorization: Basic VGVzdFVzZXI40DQ60Fs2aE0yW3N5RnMr' \
--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 successfull

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
```

```
}
```