Bug Report - Bug Finding Challenge

Project Name: Paylocity Benefits Dashboard

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Project Description:

This document outlines the bugs and defects identified in the Paylocity **Benefits Dashboard** application, focusing on both the User Interface (UI) and the API. The purpose of this report is to provide detailed information about the issues found to help developers improve the product's quality before the end-users interact with it.

Scope of the Report:

The scope of this document includes:

- **API:** Validation of the provided endpoints for managing employees and dependents, authentication review, and business logic testing.
- **UI:** Review of the graphical user interface, usability testing, and verification of benefits calculations.

1. UI Bugs Report

UI Bugs Report
Paylocity Benefits Dashboard
Tester: Pablo Ontiveros
Date: October 7, 2024

Bug #1: Last Name and First Name Swapped in UI, Special Characters Allowed

- **Priority:** Medium
- **Severity:** Minor (UI Bug)

Description:

On the **Paylocity Benefits Dashboard**, the columns for "Last Name" and "First Name" are displayed incorrectly. The "Last Name" field is showing the first name of the employee, and the "First Name" field is showing the last name. Additionally, the system allows special characters in the name fields (e.g., #).

Steps to Reproduce:

1. Navigate to the **Paylocity Benefits Dashboard**.
2. Select the **Edit** action (pencil icon) for any employee.
3. Swap the content of the "First Name" and "Last Name" fields.
4. Add a special character (e.g., #) to the "First Name" field and save the changes.
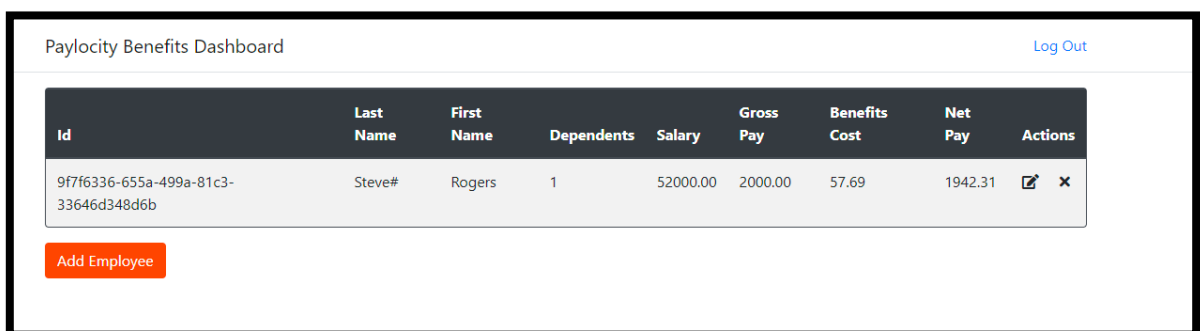5. Observe the displayed names in the employee table.

Expected Result:

- The "First Name" should appear under the "First Name" column, and the "Last Name" should appear under the "Last Name" column.
- Special characters should not be allowed in the name fields.

Actual Result:

- The "Last Name" and "First Name" are displayed incorrectly (swapped).
- Special characters (e.g., #) are accepted in the "First Name" field.

Screenshot:

Id	Last Name	First Name	Dependents	Salary	Gross Pay	Benefits Cost	Net Pay	Actions
9f7f6336-655a-499a-81c3-33646d348d6b	Steve#	Rogers	1	52000.00	2000.00	57.69	1942.31	✎ ✕

Bug #2: Unable to Update 'Dependents' Field

- **Priority:** High
- **Severity:** Major (Functionality Bug)

Description:

When attempting to update the number of dependents for an employee in the **Paylocity Benefits Dashboard**, the system does not allow the update when the number is changed. This prevents the user from modifying the dependents field as expected.

Steps to Reproduce:

1. Navigate to the **Paylocity Benefits Dashboard**.
2. Select the **Edit** action (pencil icon) for an existing employee (e.g., "Steve Rogers").
3. Change the number of **Dependents** from 1 to any other value (e.g., 10).
4. Click **Save**.
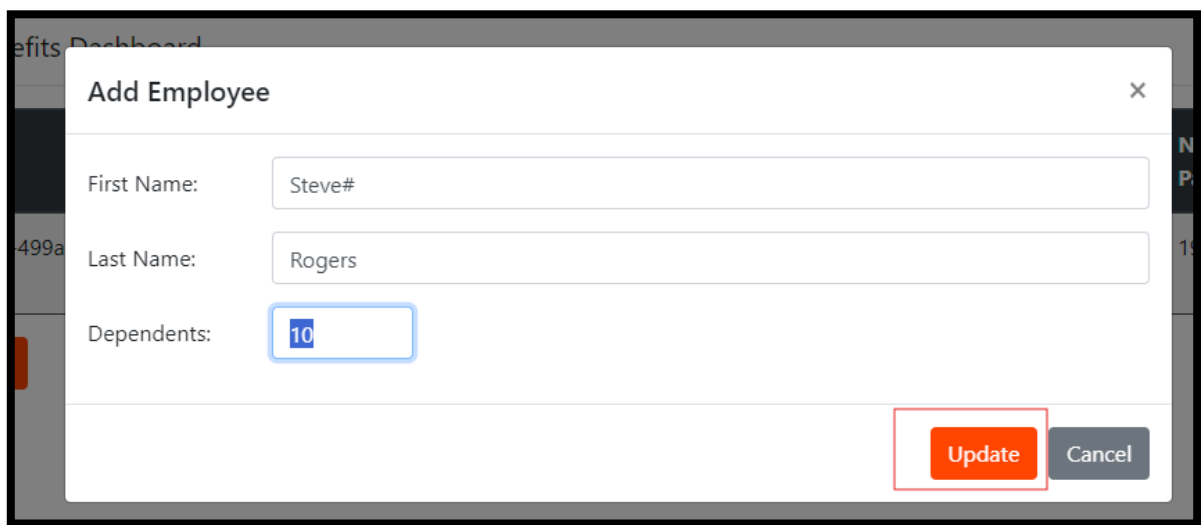
Expected Result:

- The system should update the employee's dependent count and reflect the change in the employee table.

Actual Result:

- The system does not save the changes, and the number of dependents remains unchanged.

Screenshot:

Bug #3: Employee Record Deleted After Page Refresh (F5)

- **Priority:** Critical
- **Severity:** Major (Data Loss Bug)

Description:

When refreshing the **Paylocity Benefits Dashboard** page (F5), the employee record that was previously created or edited gets deleted. This results in unintended data loss, affecting the user's ability to manage employee records.

Steps to Reproduce:

1. Navigate to the **Paylocity Benefits Dashboard**.
2. Add or edit an employee's details (e.g., "Steve Rogers").
3. Save the changes.
4. Refresh the page (F5).

Expected Result:

- The employee record should persist after the page refresh, with all details intact.

Actual Result:

- The employee record is deleted after the page refresh, and the employee no longer appears in the table.

Screenshot:

Bug #4: New Employee Not Visible on Dashboard After Refresh

- **Priority:** High
- **Severity:** Major

Description:

After adding a new employee using the POST request, the new employee does not appear on the **Paylocity Benefits Dashboard** after refreshing the page (F5).

Steps to Reproduce:

1. Add a new employee using the POST request with the following data:

```
{
    "firstName": "New",
    "lastName": "Employee",
    "dependants": 2
}
```
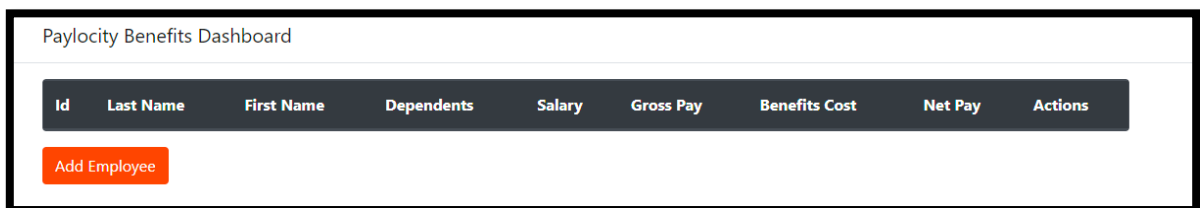
2. Refresh the dashboard page (F5).

Expected Result:

- The newly added employee should be visible in the employee table on the dashboard.

Actual Result:

- The new employee does not appear in the table after refreshing the page.

Bug #5: Unable to Add Employee from Dashboard

- **Priority:** High
- **Severity:** Major

Description:

When trying to add a new employee from the **Paylocity Benefits Dashboard**, the system does not allow any input in the fields, preventing the user from adding a new employee.

Steps to Reproduce:

1. Navigate to the **Paylocity Benefits Dashboard**.
2. Click on the **Add Employee** button.
3. Attempt to enter details in the fields (First Name, Last Name, Dependents).
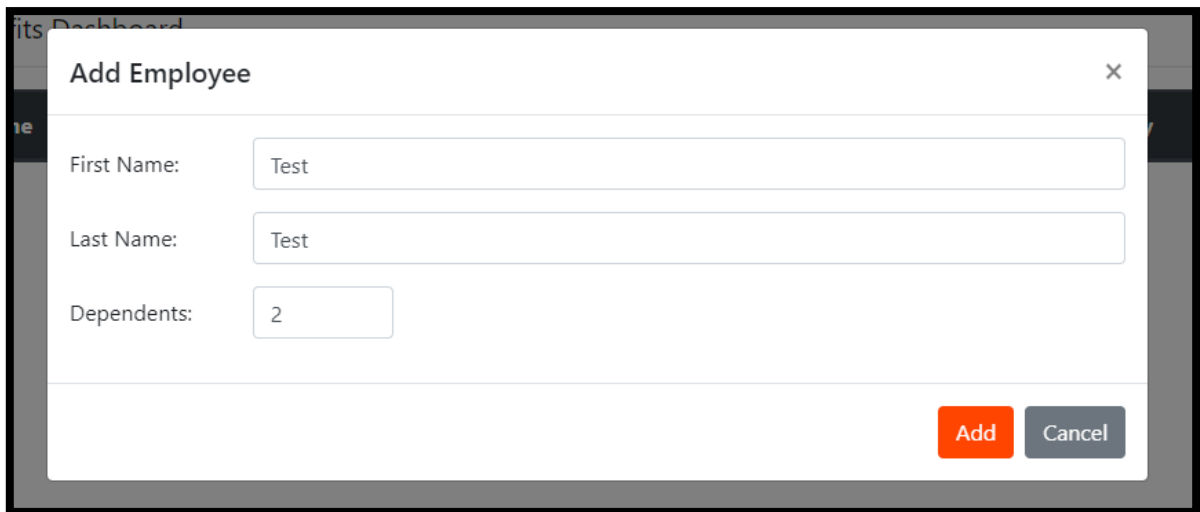
Expected Result:

- The user should be able to input employee details and successfully add a new employee.

Actual Result:

- The input fields are not accepting any data, so the user cannot add a new employee.

Screenshot:

Bug #6: Missing Logout Button

- **Priority:** Low
- **Severity:** Minor

Description:

There is no option for users to log out of their session in the **Paylocity Benefits Dashboard**. This can lead to security concerns, especially when multiple users share the same device.
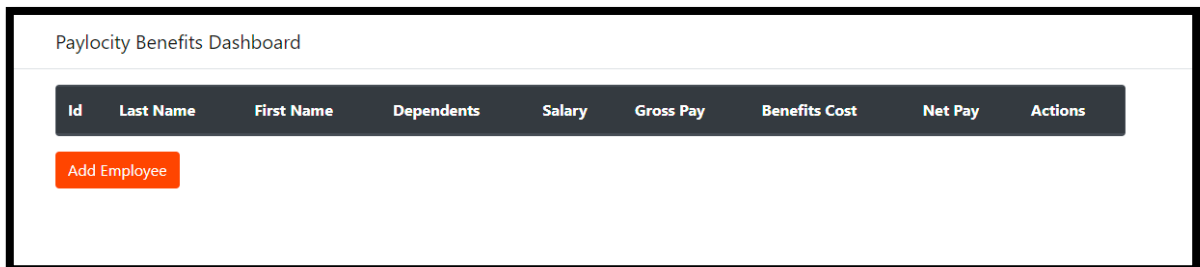
Expected Result:

- A logout button should be available in the user interface, allowing users to securely end their session.

Actual Result:

- Users are unable to find a logout option, making it difficult to safely exit the application.

Screenshot:

Bug #7: Invalid Input Handling in Dependents Field (Update Employee)

Description:
When updating an employee, if a non-numeric character (e.g., a letter) is entered in the "Dependents" field, the application silently removes the character without showing any error message or feedback to the user.

Steps to Reproduce:

1. Navigate to the "Benefits Dashboard" page.
2. Select an employee and click the "Edit" button.
3. In the "Dependents" field, input a letter or non-numeric character.
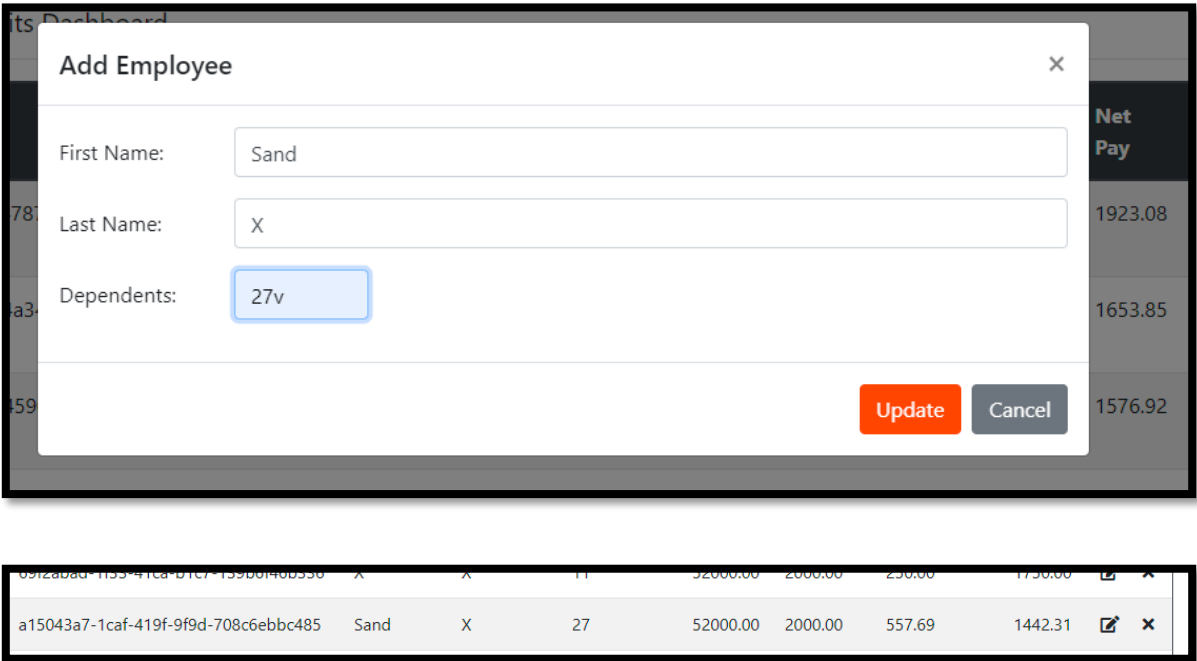4. Click "Update."

Expected Result:
An error message should appear, notifying the user that only numeric values are allowed in the "Dependents" field.

Actual Result:
The application ignores the invalid character (letter) without providing any feedback, leaving the input unchanged.

Screenshot:

Bug #8 UI Dashboard:

1. **Dependents Field Allows Excessive Values**: In the table, the "Dependents" field displays numbers like 16, 20, and 27, which are unusually high. There should be validation to limit the number of dependents to a more reasonable range, such as 0 to 10.
2. **Invalid or Incomplete Name Values**: Some employees have strange or invalid values in the name fields:
   o One employee has the **last name** "Sand" and **first name** "X."
   o Another has the **first name** "X664," which seems more like a code than a name.
   o There is also a name with a special character, "Steve#," which should not be allowed in the first name field. Proper validation to prevent invalid characters is needed.
3. **Placeholders or 'X' Values in Fields**: Using "X" as values in fields like "Last Name" or "First Name" seems to be placeholder text or erroneous input. Validation should prevent the use of placeholders or default values in visible fields.

API/Functional Bugs:

1. **Inconsistency in Added Data**: Although the data is added and displayed in the table, there is no clear visual indication of whether proper validation or process checks occurred to ensure data accuracy (e.g., validation for dependents or special characters).
2. **Exposed ID Format**: The **Id** field exposes generated IDs for employees, which may be sensitive or irrelevant information for end users viewing the dashboard. It's recommended to either hide or limit the visibility of these identifiers.

Paylocity Benefits Dashboard   Log Out

Id	Last Name	First Name	Dependents	Salary	Gross Pay	Benefits Cost	Net Pay	Actions
2bc9cebc-eade-4787-a26d-11d7f6edcd29	Wanda	Maximoff	2	52000.00	2000.00	76.92	1923.08	📝 ✕
625a3847-2a15-4a34-bd1e-08aa92171c97	Sand	X	16	52000.00	2000.00	346.15	1653.85	📝 ✕
629d4c2d-e56e-4590-ab7e-b7a2e0579166	Steve#	Sads	20	52000.00	2000.00	423.08	1576.92	📝 ✕
69f2abad-1f33-41ca-b1c7-139b6f46b336	X	X	11	52000.00	2000.00	250.00	1750.00	📝 ✕
a15043a7-1caf-419f-9f9d-708c6ebbc485	Sand	X664	27	52000.00	2000.00	557.69	1442.31	📝 ✕
bde9bfbc-e125-404c-a146-63aec25de820	Sand	Sads	7	52000.00	2000.00	173.08	1826.92	📝 ✕

Add Employee

Conclusion for UI Bugs Report

In the testing of the **Paylocity Benefits Dashboard** user interface, several key issues were identified that could affect the overall user experience and the integrity of the data being processed. These bugs include validation issues, limitations in field inputs, and inconsistencies in user interactions with certain components of the application.

Key findings include:

- **Input Validation**: The "Dependents" field in the **Add Employee** and **Update Employee** sections allows invalid characters such as letters and special symbols, but these characters are silently rejected instead of providing feedback to the user.
- **Field Limitations**: The "Dependents" field restricts the user to a maximum of one digit during employee creation, which is an unreasonable limitation, given that some employees have more than 9 dependents.
- **User Interaction**: Upon clicking "Update" with invalid data, the system does not notify the user of the error, causing confusion and potential data integrity issues.

These issues diminish the usability and functionality of the dashboard, making it essential to improve the input validation process and user feedback mechanisms. Fixing these bugs will ensure a smoother user experience and better data integrity, while also aligning the UI with expected user behaviors and standards.