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Bug

Title:

Leave Balance Miscalculation and Approval Validation Issue

Project / Module

TrackX - Leave Management

Description:

As a QA tester, I observed that during manual and automated testing, Leave policy assigned to an employee is **12 days**, yet the system allowed the employee to request a total of **16 days** of leave (in 3 separate requests) and showed **incorrect leave balances** on the Employee Portal after partial approvals and rejections. The system failed to validate the total leave balance or update it accurately, resulting in **misleading and inflated leave availability**.

Preconditions:

- Leave policy of **12 days/month** is assigned to Employee **Atif Aslam**.
- Admin can approve or reject leave requests.

Steps to Reproduce:

1. Login to Admin Portal and assign **12 days leave policy** to employee Atif Aslam.
2. Login to Employee Portal and submit 3 leave requests:
 - **Request 1:** 4 days
 - **Request 2:** 5 days
 - **Request 3:** 7 days
(Total = 16 days)
3. Admin approves Request 1 (4 days), rejects Request 2 (5 days), and rejects Request 3 (7 days).
4. Observe Employee Portal after each action.

Expected Results:

- Leave requests beyond assigned policy (12 days) should be restricted.
- Rejections should **not increase** the available leave balance beyond the assigned policy.
- System should **accurately reflect leave used, remaining, and rejected**.
- Admin should be notified if approving any leave that may exceed policy limit.

Actual Results:

- After approving 4 days, Atif's leave balance correctly shows 8 days left.
- After rejecting 5 days, the leave balance **incorrectly increases to 13 days**.
- After rejecting 7 days, the leave balance **jumps to 20 days**, which is **above the assigned 12-day policy**.
- Leave requests beyond the total balance are allowed and even increase available days upon rejection.
- **System fails to enforce leave limits and calculates balances incorrectly.**

Impact:

- Allows misuse or overuse of leave system.
- Results in **incorrect leave tracking** and policy violations.
- Misleads both Admin and Employee due to **lack of visibility**.

Bugs Identified:

✗ **Over-requesting allowed:** Employee can request more leave days than assigned.

✗ **Incorrect balance after rejection:** Rejected requests result in inflated available leave days.

✗ **No validation/warning for Admin:** Admin not notified when approving leaves that exceed balance.

✗ **Negative or unrealistic leave balances:** Employee balance goes up to 20 days from a 12-day policy.

Impact:

- Incorrect leave tracking.
- Miscommunication between Admin and Employees.
- Policy violations due to lack of system validation.

Recommendations:

- Implement validation at both employee request and admin approval level.
- Ensure rejected requests do **not affect leave balance**.
- Do not allow requests beyond available balance.
- Add proper audit logs and notification to Admin for potential policy breaches.

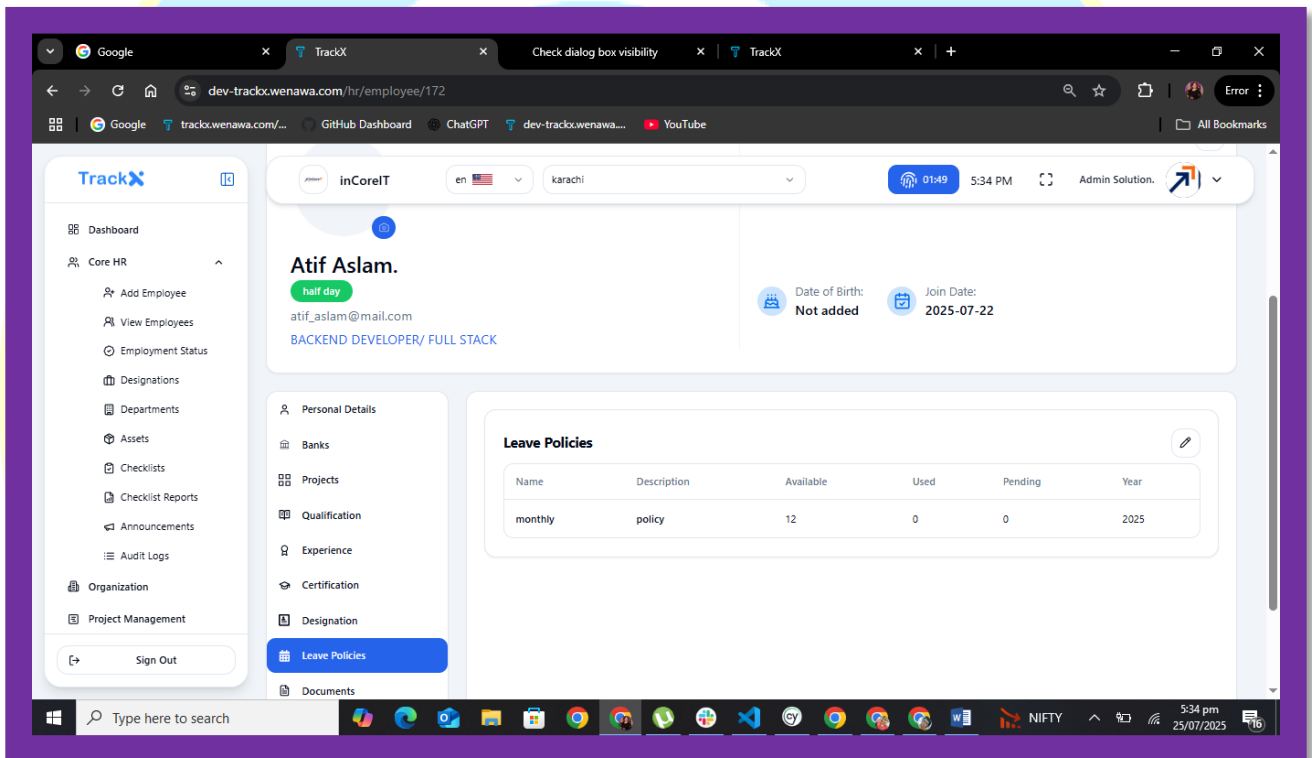
Environment:

- Platform: Web
- Browser: Chrome Version 137.0.7151.122 (Official Build) (64-bit)
- URL: <https://dev-trackx.wenawa.com/timesheet>
- OS: Windows 10 pro

Attachments: Screenshots

Admin Solution portal	
Employee portal	

- Employee Atif aslam is assigned with leave policy of 12 days name as monthly.



The screenshot displays the TrackX HR system interface. The top navigation bar includes the TrackX logo, user information (inCoreIT), language (en), location (karachi), and a clock showing 01:49. The main content area shows the profile of Atif Aslam, a Backend Developer / Full Stack, with a 'half day' status. His email is atif_aslam@mail.com. To the right, his Date of Birth is 'Not added' and his Join Date is 2025-07-22. Below the profile, there is a 'Leave Policies' section with a table showing one policy: 'monthly' with a description of 'policy', 12 available days, 0 used days, 0 pending days, and for the year 2025. The left sidebar contains a menu with options like Dashboard, Core HR, Add Employee, View Employees, Employment Status, Designations, Departments, Assets, Checklists, Checklist Reports, Announcements, Audit Logs, Organization, and Project Management. The bottom of the screen shows the Windows taskbar with various application icons and the system clock indicating 5:34 pm on 25/07/2025.

Name	Description	Available	Used	Pending	Year
monthly	policy	12	0	0	2025

- On Atif portal (Requested 3 leave in order of 4days, 5days ,7days = total 16 days).

The screenshot shows the TrackX employee portal for user Atif Aslam. The left sidebar contains navigation links: Dashboard, Core HR, Organization, Leaves Management (selected), Document Management, Payroll Management, Policies Management, and Attendance Management. The main content area is titled 'My Leave Balances' and shows a progress bar for 'leave' with 12 days left. Below this, the 'My Leave Requests' section displays a table of pending requests, which is highlighted with a red box.

Type	Date	Days	Status
Paid Leave	Aug 23, 2025 to Aug 29, 2025	7	Pending
Paid Leave	Jul 31, 2025 to Aug 4, 2025	5	Pending
Paid Leave	Jul 26, 2025 to Jul 29, 2025	4	Pending

- On admin portal All 3 requests are shown below to (accept /reject).

The screenshot shows the TrackX admin portal for user Admin Solution. The left sidebar contains navigation links: Core HR, Organization, Project Management, Leaves Management (selected), My Leaves, Leave Requests, Leave Types, Document Management, Payroll Management, Policies Management, Recruitment Management, Attendance Management, and Settings. The main content area displays summary cards for Pending Approvals (13), Total Approved (26), Total Rejected (1), and Total Leave Days (93). Below these, the 'Team Leave Requests' section shows a table of requests, with the first three rows highlighted by a red box.

Type	Date	Days	Status	Employee	Actions
leave	Aug 23, 2025 to Aug 29, 2025	7	Pending	atif aslam	Approve Reject
leave	Jul 31, 2025 to Aug 4, 2025	5	Pending	atif aslam	Approve Reject
leave	Jul 26, 2025 to Jul 29, 2025	4	Pending	atif aslam	Approve Reject
leave	Aug 17, 2025 to Aug 24, 2025	8	Approved	atif aslam	Approved

- admin portal one request is approved. (4 days)

TrackX Admin Portal - Team Leave Management

Team Leave Requests

Type	Date	Days	Status	Employee	Actions
leave	Aug 23, 2025 to Aug 29, 2025	7	Pending	atif aslam	Approve Reject
leave	Jul 31, 2025 to Aug 4, 2025	5	Pending	atif aslam	Approve Reject
leave	Jul 26, 2025 to Jul 29, 2025	4	Approved	atif aslam	Approved
leave	Aug 17, 2025 to Aug 24, 2025	8	Approved	atif aslam	Approved
leave	Jul 31, 2025 to Aug 3, 2025	4	Approved	atif aslam	Approved
leave	Jul 26, 2025	4	Approved	atif aslam	Approved

- Atif portal one request is approved. (4 days used)(8 days left)

TrackX User Portal - My Leave Balances

leave 8 days left

Available: 8 Used: 4 Pending: 12

My Leave Requests

Type	Date	Days	Status
Paid Leave	Aug 23, 2025 to Aug 29, 2025	7	Pending
Paid Leave	Jul 31, 2025 to Aug 4, 2025	5	Pending
Paid Leave	Jul 26, 2025 to Jul 29, 2025	4	Approved

- admin portal one request is rejected. (rejected 5 days).

The screenshot shows the TrackX Admin Portal interface. The left sidebar contains navigation links for Core HR, Organization, Project Management, Leaves Management (selected), My Leaves, Leave Requests, Leave Types, Document Management, Payroll Management, Policies Management, Recruitment Management, Attendance Management, and Settings. The main content area displays 'Team Leave Management' with a summary of leave requests and a table of individual requests.

Type	Date	Days	Status	Employee	Actions
leave	Aug 23, 2025 to Aug 29, 2025	7	Pending	atif aslam	Approve Reject
leave	Jul 31, 2025 to Aug 4, 2025	5	Rejected	atif aslam	Rejected
leave	Jul 26, 2025 to Jul 29, 2025	4	Approved	atif aslam	Approved
leave	Aug 17, 2025 to Aug 24, 2025	8	Approved	atif aslam	Approved

- Atif portal got 5 days rejected (pending 7, available 13) (bug)(actual policy was 12 days)

The screenshot shows the TrackX User Portal interface for 'atif aslam'. The left sidebar contains navigation links for Dashboard, Core HR, Organization, Leaves Management (selected), My Leaves, Document Management, Payroll Management, Policies Management, and Attendance Management. The main content area displays 'My Leave Balances' and 'My Leave Requests'.

My Leave Balances

leave 13 days left

Available: 13 Used: 4 Pending: 7

My Leave Requests

Type	Date	Days	Status
Paid Leave	Aug 23, 2025 to Aug 29, 2025	7	Pending
Paid Leave	Jul 31, 2025 to Aug 4, 2025	5	Rejected
Paid Leave	Jul 26, 2025 to Jul 29, 2025	4	Approved

- Atif portal got 7 days rejected again (pending 0, available 20)(bug)(actual policy was 12 days)

The screenshot shows the TrackX HR portal interface. The user is logged in as Atif Aslam. The dashboard displays several key metrics: 0 leave requests awaiting approval, 3 total rejected leave requests, 9 total leaves approved this year, and 54 days taken off this year. A red box highlights the 'My Leave Balances' section, which shows a leave balance of 20 days left, with a progress bar indicating 20 days available and 4 days used. Below this, the 'My Leave Requests' section displays a table of requests.

Type	Date	Days	Status
Paid Leave	Aug 23, 2025 to Aug 29, 2025	7	Rejected
Paid Leave	Jul 31, 2025 to Aug 4, 2025	5	Rejected

Severity: Major
Priority: High
Status: New