

Bug Report #8: Concurrent Login Failure for Multiple Users

System Restricting Simultaneous Logins from Multiple Users

Description:

A session management flaw was identified where multiple users could not be logged into the system concurrently. When different users attempted to log in from separate tabs or devices, sessions would override each other, causing instability and incorrect data display.

Steps to Reproduce:

1. Log in as User A in one browser tab.
2. Open another tab or browser window and log in as User B.
3. Observe how User A's session is overwritten or disconnected.

Expected Behavior:

Each user should be able to maintain an independent session, allowing multiple users to log in simultaneously without interference.

Actual Behavior:

User sessions were clashing due to shared session handling and misuse of local storage, resulting in only one active session being maintained at a time.

Severity: High

Affected Component: Session Management / Authentication System

Root Cause:

The system relied on localStorage for storing session data, which is shared across browser tabs. This caused conflicts in tab/session identity and login persistence.

Fix Implemented:

Enhanced session isolation by integrating a TabId system and migrating sensitive session data from localStorage to sessionStorage, ensuring that each browser tab maintains its own user context independently.