

SARVESHWARARAM M

21BCB0161

1. Key Functional and Security Issues

While testing the app, I found several critical issues affecting core functionality and security. Firstly, when a user attempts to log in with incorrect credentials, the system reloads the page without displaying any error message. This leaves the user confused and unaware of what went wrong. Secondly, on the registration page, users can click "Create Account" even when fields are left empty. There is no form validation to prevent blank or incorrect input. Thirdly, one of the most serious issues is that the Home page is accessible directly without authentication. Even after logging out or without logging in at all, typing /home in the URL bar loads the dashboard. This indicates the absence of proper session or token validation. Additionally, the "Delete Account" feature lacks any confirmation or warning. Clicking it immediately deletes the user account, which is a destructive action that should ideally be confirmed.

2. User Experience and Design Issues

There are also a few user experience problems. Password strength is not evaluated during registration—weak passwords like "123" are accepted without any guidance or warning. After successful registration, no confirmation message is shown; users are simply redirected to the login page without any feedback, which can cause confusion. There is no "Forgot Password?" option on the login page, which could prevent users from recovering their account if they forget credentials. On mobile view, there is slight input overlap, indicating that the interface is not fully optimized for smaller screens.

3. Recommendations

To address these issues, form validation should be implemented both on the frontend and backend for all input fields. The login and registration processes must include proper feedback messages for both success and failure cases. The app must enforce session checks or token validation to restrict access to authenticated pages like /home.

Destructive actions like account deletion should have a confirmation modal or additional step before completion. A password strength checker should be included, and minimum-security requirements (e.g., at least six characters) should be enforced. Adding a "Forgot Password?" feature will improve accessibility and account recovery. Finally, slight UI adjustments will ensure better responsiveness on mobile devices.

4. Summary of Test Coverage

I tested the app's core flows including registration, login, session handling, dashboard access, and account deletion. I also checked edge cases like empty form submission, incorrect login credentials, and refreshing or navigating directly to protected pages. In total, I identified eight key issues—four of them are high-severity problems that directly impact functionality or user trust.

Conclusion:

Fixing the high-severity functional and security issues—like broken validations, missing error messages, unrestricted access, and immediate destructive actions—will greatly enhance the app's reliability and user experience. Additional UX improvements will help polish the product and make it more professional and user-friendly.