

Executive Summary – EchoGPT Sign-Up & Sign-In

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High-Level Overview of Findings

The EchoGPT sign-up and sign-in module was thoroughly tested across functional and non-functional aspects on multiple environments, including Windows 11 (Chrome, Firefox) and Android Chrome. A total of 27 test cases were executed, covering mandatory field validation, OTP verification, social login integrations (Google, GitHub, Twitter), legal document accessibility, and usability considerations.

- Test Case Execution: 100% (27/27)
- Pass Rate: 88.9% (24/27)
- Fail Rate: 11.1% (3/27)

Key Findings:

1. Core sign-up functionality, including Google and GitHub authentication, works correctly.
2. OTP validation for correct inputs and length constraints operates as expected.
3. Critical usability gaps exist:
 - Duplicate email registration is not handled.
 - Twitter login fails on initiation.
 - Terms of Use and Privacy Policy links are not clickable.

4. Error handling for wrong OTP is inconsistent; the app redirects home instead of showing a warning.
5. The website currently has no user profile management or password functionality. Users cannot add or change passwords.
6. Non-functional aspects (layout responsiveness, browser compatibility, and load time) meet expectations.

Quality Assessment of the Sign-Up Feature

The overall quality of the sign-up module is fair but not production-ready due to the presence of high-severity defects.

Strengths:

- Core registration and authentication flows with Google/GitHub function reliably.
- OTP validation logic is mostly accurate.
- Non-functional aspects, including responsiveness and performance, are satisfactory.

Weaknesses:

- Duplicate email handling is missing.
- Twitter login button is non-functional.
- Legal document links are inaccessible.
- Inconsistent error handling for invalid OTP input.
- Exit confirmation on back button press is absent.
- No user profile or password management functionality is available.

Risk Assessment & Recommendations

High-Risk Areas:

- Duplicate Email Registration: Can result user get confused and irritate.
- Twitter Login Failure: confusing for users.

Medium-Risk Areas:

- Legal Links Inaccessible: Could affect compliance and user trust.
- OTP Wrong Input Handling: Confusing for end-users.

Recommendations:

1. Bug Fixing Priority:

- Implement proper duplicate email validation.
- Resolve Twitter authentication integration.
- Make Terms of Use and Privacy Policy links clickable.

2. Usability Enhancements:

- Display proper warning messages for invalid/wrong OTP.
- Add exit confirmation on back button press.

3. Monitoring & Retesting:

- Once defects are resolved, retest all failed and related functional flows.
- Include cross-browser and mobile retesting to ensure consistency.

4. Future Feature Consideration:

- Implement user profile management and password functionality for enhanced account control.

Next Steps for QA Process

1. Fix critical and medium-severity defects identified during this testing cycle.
2. Conduct regression testing to ensure existing functionality remains stable.
3. Validate usability improvements and legal link accessibility.
4. Perform final sign-off testing on multiple environments.
5. Prepare QA closure report with updated defect metrics and recommendations for release readiness.

The sign-up feature of EchoGPT demonstrates functional reliability in core areas but has critical gaps that must be addressed before production deployment. Resolving duplicate email handling, Twitter login issues, and legal link accessibility will significantly improve user experience and reliability. Additionally, the addition of user profile and password management features is recommended for future releases.