

Executive Summary - EchoGPT Sign-Up Feature

1. High-Level Overview of Findings

- **Positive scenarios** performed as expected, with successful account creation.
- **Validation checks** were effective in identifying issues with form handling.
- **Non-functional aspects** like usability, error messaging, and performance during concurrent requests require further improvement.

Overall, the core functionality is **working correctly**, but several edge cases and dependencies carry risk if not tested continuously.

2. Quality Assessment of the Sign-Up Feature

- **Functionality:** Major signup flows work; form validation is strong.
- **Usability:** Error messages are clear but need better accessibility support.
- **Security:** Basic checks exist, but further security testing is required.
- **Performance:** Initial load times are acceptable, but OTP delays may impact user experience.

Quality rating (based on test execution):

- **Functional Coverage** → 85%
- **Non-Functional Coverage** → 60%
- **Overall Readiness** → **Good, but requires optimization in edge cases.**

3. Risk Assessment & Recommendations

Risks Identified:

- **OTP dependency:** If OTP service delays/fails, the signup flow is blocked.
- **Social logins:** Rely on third-party providers → external downtime risk.
- **Regression risk:** Each UI/API change may break signup flows.

Recommendations:

- Automate **critical signup test cases** (positive + OTP validations) for continuous regression checks.
- Add **mock/stub services** for OTP testing to reduce dependency on live services.
- Implement **cross-browser/device testing** to ensure consistency.
- Conduct **basic security testing** (SQL injection, XSS prevention).

4. Next Steps for QA Process

1. **Finalize automation framework** (5–7 days setup).
2. **Prioritize automation of high-risk test cases** (signup flows, OTP validation).
3. **Expand non-functional testing** → load testing (JMeter), accessibility testing.
4. **Introduce CI/CD pipeline** for automated regression execution.
5. **Ongoing monitoring & defect triage** before production releases.