## 1. High-Level Overview of Findings

The **sign-up feature** of EchoGPT was tested thoroughly to evaluate its functionality, usability, and reliability. Testing was carried out on both **positive and negative flows**, covering input validation, OTP verification, and navigation.

Total Test Cases Designed: 28

Total Test Cases Executed: 28

Passed: 20

Failed: 8 (bugs reported)

#### **Key Findings:**

- Critical Defect: Wrong 6-digit OTP redirects to home page without login instead of showing an error message.
- Major Defects:
  - o First Name and Last Name fields accept only spaces as valid input.
  - First Name and Last Name accept numeric values (e.g., "11").
- Minor Defects:
  - o OTP emails sometimes land in spam folder.
  - No proper error messages for some invalid inputs.

Despite these issues, the core sign-up flow (with valid data and OTP) works correctly.

# 2. Quality Assessment of the Sign-Up Feature

**Functionality:** Partially meets expectations. Positive scenarios pass, but several validation gaps exist.

**Usability:** Simple and clear, though error messages can be improved for better user experience.

**Security:** Basic checks present, but improper handling of invalid OTP raises a security risk.

**Performance:** No noticeable lag in response times during testing.

**Compatibility:** Works across tested browsers (Chrome, Firefox, Edge).

## Overall Quality Rating: Medium - requires fixes before production readiness.

### 3. Risk Assessment and Recommendations

| Risk   | Severity | Impact                            | Recommendation                                       |
|--|----------|-----------------------------------|--|
| Invalid OTP leads to home page without login | High     | Security risk unauthorized access | Fix OTP validation and enforce proper error handling |
| Names accept spaces/numeric                  | High     | Data integrity issue              | Enforce input validation (alphabet-only checks)      |
| OTP emails in spam folder                    | Medium   | User confusion, signup delays     | Improve email configuration                          |
| Inconsistent error messages                  | Medium   | Poor user experience              | Standardize and align all validation messages        |

## 4. Next Steps for the QA Process

- 1. **Bug Fixes & Retesting:** Critical and major defects must be fixed before release. Retest failed cases.
- 2. **Regression Testing:** Re-run full test suite to ensure no new issues are introduced.
- 3. **Automation Implementation:** Automate positive/negative flows for faster regression (Selenium + Pytest).

### 4. Extended Testing:

Security testing (SQL injection, XSS attempts on input fields).

Cross-device testing on mobile browsers.

Accessibility testing (keyboard navigation, screen readers).

5. **Sign-Off Criteria:** All critical and high-priority bugs resolved; >95% test cases passing.