**Test Execution Report**

**Project Name:** EchoGPT  
**Report Date:** August 28, 2025  
**Testing Phase:** System Test Cycle 1  
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**1. Executive Summary**

This report summarizes the test execution results for the EchoGPT application, focusing on the **user sign-up feature** and **core AI functionalities** as per the assignment brief. The testing revealed an unstable build with multiple critical defects that block essential user flows. The current state of the application is **not production-ready**, and the core value propositions (AI analysis, image generation) are non-functional. Immediate resolution of critical issues is required before any user acceptance testing (UAT) can be considered.

**2. Test Cases Executed vs. Planned**

A comprehensive suite of 28 test cases was designed and executed, covering the following modules:

Registration & Authentication (Email OTP, Google, Twitter)

User Interface & Navigation (Links, Redirects)

Core AI Features (Image Generator, AI Job Analysis, AI Tools Store)

Support Functionality

**Execution Coverage:** 100% of the planned test cases for this cycle were executed.

**3. Pass/Fail Statistics**

|  |  |  |
| --- | --- | --- |
| **Status** | **Number of Test Cases** | **Percentage** |
| **Passed** | **8** | **28.57%** |
| **Failed** | **18** | **64.29%** |
| **Partially Passed** | **2** | **7.14%** |
| **Total Executed** | **28** | **100%** |

**4. Defects Found (Categorized by Severity)**

**Detailed Breakdown:**

**Passed (8):** REG\_PAG\_3\_3, REG\_PAG\_4\_4, SIG\_PAG\_1\_9, IMG\_PAG\_2\_12, SUP\_SEC\_1\_15, AI\_TASK\_SCH\_01\_17, PLAT\_LOG\_01\_25, PLAT\_REG\_02\_27

**Failed (18):** REG\_PAG\_1\_1, REG\_PAG\_2\_2, REG\_PAG\_5\_5, SIGN\_PAG\_1\_6, SIGN\_PAG\_2\_7, LOG\_PAG\_1\_8, IMG\_PAG\_1\_11, IMG\_PAG\_4\_14, STORE\_SCH\_01\_16, AI\_JOB\_AN\_01\_18, AI\_JOB\_DR\_01\_19, AI\_JOB\_SK\_01\_20, AI\_JOB\_SO\_01\_21, AI\_JOB\_KR\_01\_22, AI\_JOB\_FIT\_01\_23, AI\_JOB\_TR\_01\_24, SUB\_PAY\_01\_25, PLAT\_REC\_03\_28

**Partially Passed (2):**SIG\_PAG\_2\_10, IMG\_PAG\_3\_13

**Explanation of Partially Passed:**

**SIG\_PAG\_2\_10:** The checkbox is selectable (Pass), but no login notification email is received (Fail).

**IMG\_PAG\_3\_13:** The "Image Liked!" popup message is displayed (Pass), but the like count does not increase (Fail).

This breakdown now accurately reflects the results of all 28 executed test cases.

**4. Defects Found (Categorized by Severity)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Severity** | **Count** | **Description** | **Example Defects** |
| **Critical** | 3 | Defects that cause complete failure of a core feature or contain a major security flaw. | **BUG-REG-002:** OTP validation bypass. **BUG-FEAT-001:** Image Generation fails. **All AI Job Analysis features** are non-functional. |
| **High** | 4 | Defects that cause a major feature to fail without a workaround. | **BUG-REG-001:** OTP email not sent. **BUG-REG-003:** Twitter sign-up broken. **BUG-FEAT-003:** AI Tools Store search broken. |
| **Medium** | 2 | Defects that cause a feature to malfunction but have a workaround. | **BUG-CONTENT-001:** Legal links broken. **BUG-NAV-001:** Sign In link broken. |
| **Low** | 1 | Defects that are cosmetic or have a minimal impact on functionality. | **BUG-FEAT-002:** Image download CORS error. |

A total of **10 unique defects** were identified and logged, impacting multiple critical areas of the application.

**5. Overall Quality Assessment**

**Current Status: RED**

The overall quality of the EchoGPT application is **extremely poor**. The pass rate of 28.57% indicates catastrophic failures across its core functionalities.

**Authentication & Security (Critical):** The email sign-up process is completely broken and contains a severe security vulnerability that allows authentication bypass. This is the highest-priority, release-blocking issue.

**Core AI Features (Critical):** The primary advertised features—**Image Generation and AI Job Analysis**—are entirely non-functional. This negates the application's core value proposition and is a release-blocking issue.

**User Experience (Medium/High):** Broken links for legal pages and navigation, combined with a malfunctioning AI Tools search, create a frustrating and unprofessional user experience.

**Positive Notes:** Third-party login via Google, basic UI interactions (Clear button, Enter key), and the "Email Us" function work correctly.

**Conclusion:** The application is in an unstable and insecure state. It fails to deliver on its core promises and exposes users to security risks. It is **not fit for end-user release or further testing** until the critical defects are resolved.

**6. Recommendations for Improvement**

The following recommendations are prioritized based on the severity of the issues and their impact on the user experience and business goals.

**1. IMMEDIATE ACTION (P0 - Critical & Release-Blocking):**

**Fix Authentication & Security Flaws:**This is the highest priority. The email sign-up process is the primary gateway for users and is currently completely broken and insecure.

**Action:**Immediately investigate and resolve the OTP email delivery service. Simultaneously, patch the critical security vulnerability by implementing robust server-side validation for OTP codes to prevent unauthorized access.

**Bugs Addressed:**BUG-REG-001, BUG-REG-002.

**Restore Core AI Functionality:**The application's value proposition is entirely dependent on its AI features. Their complete failure undermines the product's purpose.

**Action:**Allocate maximum resources to diagnose and fix the backend services and APIs for the Image Generator and the entire suite of AI Job Analysis tools (resume drafting, skills analysis, etc.). These features must be functional for the product to have any market viability.

**Bugs Addressed:**BUG-FEAT-001, All AI Job Analysis failures.

**2. HIGH PRIORITY (P1 - Major Functional Defects):**

**Repair Broken User Interface & Flows:**A non-intuitive and broken UI erodes user trust and prevents successful onboarding.

**Action:**Fix the unresponsive "Sign in with Twitter" button on the main modal. Repair all non-functional links ("Terms of Use", "Privacy Policy", "Sign In") by replacing <span> elements with proper <a> anchor tags.

**Bugs Addressed:**BUG-REG-003, BUG-CONTENT-001, BUG-NAV-001.

**Ensure Feature Reliability:**Key functionalities must deliver consistent results.

**Action:**Fix the search algorithm in the AI Tools Store to return accurate and relevant results. Ensure the "Like" feature fully updates the database and UI counter.

**Bugs Addressed:**STORE\_SCH\_01\_16 failure, IMG\_PAG\_3\_13 partial failure.

**3. MEDIUM PRIORITY (P2 - Functional Defects with Workarounds):**

**Address Technical Debt & Minor Bugs:**These issues impact user satisfaction and polish.

**Action:**Configure the server's CORS policies correctly to allow image downloads. Investigate the email service for the login notification feature.

**Bugs Addressed:**BUG-FEAT-002, SIG\_PAG\_2\_10 partial failure.

**4. Strategic Recommendations:**

**Implement a Robust QA Process:**Introduce unit and integration testing for developers to catch validation and integration errors before they reach system testing. This would have prevented the OTP bypass flaw.

**Prioritize Regression Testing:**After these fixes are implemented, a full regression test cycle is mandatory to ensure no new bugs were introduced.

**Develop an Automation Suite:**To ensure future stability, high-priority regression test cases (e.g., sign-up flow, core AI features) should be automated.