Automation Recommendations - EchoGPT Sign-Up Feature

Automation Strategy

1. Identify which test cases would benefit from automation
- Positive sign-up flows (TC_01 to TC_04)
- Validation errors (TC_05 to TC_12)
- OTP-related flows (TC_13 to TC_20, TC_23)
- UI verification & functional checks (TC_26, TC_27)

Exploratory, usability, and browser-rendering issues should remain manual.

2. Recommended automation tools/frameworks
- Selenium / Playwright → Cross-browser automation (Chrome, Firefox, Edge)
- TestNG / PyTest → Test management & reporting
- Postman + Newman → API-level OTP validation
- Jenkins/GitHub Actions → CI/CD integration

3. Justification for automation vs. manual testing
- Automate regression-heavy, repetitive flows like signup and OTP validation.
- Keep usability, accessibility, and UI rendering checks as manual tests.

4. Effort estimation
- Framework setup: 5–7 days
- Complex test cases: 1–2 days each
- Simple validation cases: ~0.5 day each

Automation Scope

1. High-priority scenarios for automation
- Account creation flows (TC_01–TC_04)
- Input validation & error handling (TC_05–TC_12)
- OTP workflows (TC_13–TC_20, TC_23)
- Core regression coverage for signup

2. Regression testing considerations
- Automate both happy path & negative cases
- Maintain smoke suite (basic signup works)
- Maintain regression suite (all OTP + validation tests)