

Comprehensive Testing Plan

Goals: Ensure accuracy, safety, usability, performance, and accessibility.

1. Scenario Validation Testing (60+ Cases Planned)

- Anonymized/simulated inputs only.
- Table Format: ID | Age | Postcode | Symptoms | Expected Pathway | Actual | Pass/Fail | Notes.
- Coverage: All 7 Pharmacy First conditions + red flags + minor/self-care + edge cases.
- Target: 98%+ alignment with logic framework.

2. Usability/User Testing

- 15–25 simulated volunteers (diverse ages/abilities).
- Tasks: Navigate common scenarios; rate ease/clarity (1–5 scale).
- Collect anonymous feedback quotes/metrics (e.g., "90% found pathways clear").

3. Performance and Technical Testing

- Load times <2 seconds.
- API error handling (graceful fallbacks).
- Mobile/desktop responsiveness.
- Concurrent user simulation (basic).

4. Accessibility Audit

- Full scans + manual checks (as per plan).
- Generate PDF reports.

5. Safety/Edge Case Testing

- Red-flag priority overrides.
- No postcode input.
- Multiple conflicting symptoms.

Documentation Outputs: Full tables, summary metrics, feedback compilation — all for portfolio evidence.