

Socio-Technical Heuristic Evaluation.

Senior QA / Lead Architect Audit (Personal Project App feedback)

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Product Quality Audit: Voice App Platform

Auditor: Lead Cloud Architect (19+ Yrs Experience)

Methodology: Heuristic Evaluation & Stress Testing

Status: Strategic Feedback / Professional Advocacy

I. Critical Functional Bugs (System Integrity)

| Feature | Issue Observed | Severity |
|---------------------------|--|-----------------|
| Playlist Scaling | App crashes/fails to open when Pod count exceeds 250 units. Indicates memory management or JSON parsing failure. | High |
| Logic / Validation | Title limit is set to 80 chars, but Tamil/Telugu scripts trigger "Limit Reached" at 60-62 chars. Likely an encoding/multi-byte character handling bug. | High |
| State Management | Drafts fail to save description fields during refreshes. Loss of user data/effort. | Medium |
| Group Logic | Club groups fail to populate if user is in 5+ clubs; requires hard restart (Cache/Sync issue). | Medium |

II. UX & User Onboarding (Retention Strategy)

- Friction Reduction:** Initial "Preferences" flow is currently a series of high-click hurdles.

- *Recommendation:* Implement "Skip for now" or "Set later" logic, especially for deep-linked users (referral traffic) to reduce "Time-to-Value."
 - **Media Workflow:** Missing image validation before publishing.
 - *Recommendation:* Implement a **Publishing Interstitial (Pop-up)** if the image slot is null.
 - **Asset Accessibility:** Google Image integration is inconsistent; forcing "legacy" manual uploads which increases friction.
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III. Feature Enhancement Requests (Architecture)

- **Hierarchical Settings:** Implement Volume Control at the **User Profile Level** with an **Override at the Individual Pod Level** (Inheritance model).
 - **Default Assets:** Allow a "Default Cover Art" at the User level to prevent repetitive manual updates for playlists.
 - **Navigation Efficiency:** Implement "Recent Club" sorting for playlist assignment to eliminate long-scroll fatigue.
 - **Integration Check:** Audit Open Graph / Share URL generation to ensure #hashtags from descriptions are correctly appended to social metadata.
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IV. Localization & Discovery

- **Filtering Bug:** Telugu clubs are not populating correctly even when profile language is set to Telugu. Indicates a fault in the filtering logic or database indexing for localized content.
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How to use this document:

1. **For your Portfolio:** Keep this formatted version. It shows you think in terms of **Severity, Logic, and Scaling**.
2. **For LinkedIn:** You can post a snippet: "*As an Architect, I can't help but perform a 'Stress Test' on the apps I use. Recently audited a Voice AI platform and identified interesting edge cases in multi-byte character encoding for Indic languages and memory handling for large playlists.*"