

Test report

Test object: AI-Driven Nutrition App

Version(s): 1.0.1, 1.0.2

Environment: iPhone 16 Pro, iOS 18.6.2

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The testing phase focused on validating the core functionality of the AI-powered nutrition tracker, including registration, food logging (manual, voice, and visual), and subscription management. Overall, version 1.0.2 (4) demonstrates stability in core user journeys. However, critical issues in offline mode and localization, along with AI calculation inaccuracies, require attention before the production release.

1. Scope of Testing

Functional Modules Tested:

- Registration (with Apple, Google).
- Login/Logout.
- User onboarding questionnaire.
- Profile updates:
 - Changing profile information.
 - Changing macros.
 - Weight log (month, year).
- Home page.
- Camera scan.
- Photo scan from the gallery.
- Voice input.
- Improvement/Improve feature (superficially, I checked that there are no crashes when interacting with scans).
- CRUD operations with dishes.
- History:
 - Report generation.

- PDF report.
- Sharing on Telegram and Viber.
- Subscriptions (superficially, UI testing of the frame + payment for monthly and annual subscriptions).
- Profile deletion.

Testing Focus:

- Portrait-only orientation, Light/Dark mode compatibility (on frames: Homepage, History, Scans, Voice input, Profile, Subscription).
- Localization was verified in [UA] and [EN].
- UI/UX testing (portrait orientation, dark/light theme, inclusive).
- Testing with internet disconnection.

Out of Scope:

- Permission denial handling.
- Settings, FAQ, Terms of Use, Privacy Policy.
- Edge cases for subscriptions (trial expiration, promo codes).
- Notifications.
- Testing with slow internet, 2G/3G; working with an unstable network connection.
- System interruptions (calls, notifications from other applications, etc.).

2. Defect Statistics

A total of **81 defects** were identified during the beta phase.

- Blocker: 3.
- Critical/Major: 15.
- Minor/Trivial: 63.

Note: 6 defects were verified and closed in version 1.0.2 during regression testing.

All bugs are documented in a separate document: *{{NDA}}*

3. Загальна оцінка та рекомендації

Based on the beta testing results, version 1.0.2 of the application demonstrates overall stability, with all primary user scenarios functioning as intended.

Detailed recommendations regarding specific features, along with personal observations and user expectations, have been documented within the comments section of the bug tracking log and will not be duplicated here.

While the core functionality is operational, the current AI model recognizes a limited variety of items. Testing was focused on products the AI is expected to identify accurately, resulting in an 86% success rate for single items within the test sample. However, the accuracy drops significantly to approximately 56% when dealing with food combinations.

Furthermore, weight and calorie calculations currently show low precision (~22%), though this aligns with the initial constraints established for this beta phase. In contrast, the voice input feature performed exceptionally well, demonstrating high accuracy in speech-to-text recognition and nutritional calculation when provided with specific dish names and weights.

Voice input performed well in recognizing what the user said and calculating macros and calories, as long as the weight and dish name were provided.

There are a few blockers, but they are in quite narrow areas (system login and offline mode). Many bugs were found in the app's localization and the UI part.

Voice input and product scanning will significantly save time for recording and keeping a food diary. However, expectations for such a product will be very high. In the sense that the entire app relies on its main business function, the accuracy of calculations. If a user tries to enter their dish into the scanner and it gives vague data (a high calculation error), it will most likely lead to a poor user experience and the loss of a potential client.

Additionally, I checked the work in portrait mode — all the screens I tested had a fixed portrait orientation.

The app doesn't work very briskly in offline mode, and sometimes, without messages for the user that would explain such a long data load or the inability to analyze data at all.

Regarding the main screen, I recommend thinking about grouping by meals, and on the History page, it's worth adding the ability to add food for past days.