**Project Description:**

**KITA KO** (Keep Inventory Tracking and Accounting) is a mobile-first stock tracking and income monitoring app designed by Masapa, of MWorks. The app targets small business owners such as sari-sari store operators who face challenges in managing inventory, logging sales, and monitoring income manually.

The app’s primary goal is to simplify inventory and sales record-keeping, helping users avoid overstocking or running out of essential products. It also empowers users to track daily earnings and expenses, providing clarity on their business performance. Intended users are micro-entrepreneurs and student business owners with minimal technical expertise.

**Requirements Summary:**

|  |  |  |
| --- | --- | --- |
| **MINIMUM REQUIREMENTS** | Processor Cores | Single Core |
| OS | Android 4.4 (KitKat) |
| RAM | 2 GB |
| **RECOMMENDED REQUIREMENTS** | Processor Cores | Quad Core |
| OS | Android 8.0(Oreo) |
| RAM | 4 GB |
| **OTHER REQUIREMENTS** | Storage Access, Notifications | + Optional: Camera (future use) |

Table 1. System Requirements

KITA KO is designed for low-end Android devices to support broader accessibility for small business owners. It includes essential CRUD (Create, Read, Update, Delete) operations for products, sales, and restocking data. The interface is simple, offline-compatible, and visually guided with icons and minimal text.

**Functional Requirements**

* Users can add, edit, and delete products with quantities, categories, and prices.
* Users can record restocks and view supplier history.
* Users can log sales, track remaining stock, and see daily income.
* Includes transaction history organized by date and item.
* Provides income summaries, restocking logs, and low-stock alerts.

**Usability Requirements**

* Clean, uncluttered UI with clearly labeled icons and buttons.
* Immediate visual feedback on actions (e.g., successful save, stock updates).
* Fast screen transitions and responsive tap areas.
* Intuitive flow for first-time users, no user manual required.

# Overview

Due to ongoing restrictions, the evaluation was conducted remotely via Microsoft Teams and Discord. Three techniques were used:

1. **Usability Specification Testing** – Timed tasks such as adding products, recording sales, and viewing transaction logs.
2. **Heuristic Evaluation** – Using Nielsen’s 10 usability heuristics to assess interface consistency and usability.
3. **User Survey & Feedback** – Likert-scale and open-ended responses to evaluate user satisfaction and pain points.

Benchmark Tasks:

* Navigating the home dashboard
* Adding, editing, and deleting products
* Recording a sales transaction
* Restocking a product

These tasks were selected to evaluate the app’s **core functionalities related to inventory management, sales monitoring, and income tracking for small business owners**.

**Evaluation Techniques**

Data Presentation (25%)

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Mean Time** | **Interpretation** | **Classification** |
| Home Navigation | 0.20 minutes | Highly Acceptable | Successful |
| Add Product | 2 minutes 45 secs | |  | | --- | |  |  |  | | --- | |  |   Highly Acceptable | Successful |
| Record Sales | 3 minutes 15 secs | Highly Acceptable | Successful |
| Product Restock | 3 minutes 35 secs | Acceptable | Successful |

**Survey Results (Likert Scale 1–5):**

* Overall Experience: **4.2**
* Interface Clarity: **4.5**
* Adding/Editing Products: **4.6**
* Sales Logging: **4.3**
* Income Tracking: **4.1**
* Restocking Flow: **3.8** *(lowest-rated)*

**Average Overall Rating:** **4.28** – **Acceptable and Successful**

**Data Analysis (25%)**

Users completed all assigned tasks with minimal instruction. Most participants found the features intuitive, but there were a few noted areas for improvement.

**Key Insights:**

* **Positive Usability**: The home screen layout, product addition process, and income view were intuitive and well received.
* **Areas for Improvement**: The restocking interface lacked visual prompts and the method to update quantity was not obvious to some users.
* **Well-received Features**: Income dashboard, transaction history, and low-stock alerts were praised for clarity and relevance.

**Design Implications (50%)**

**Issues Identified:**

* Restocking UX: Participants expected a "+" button or pop-up instead of navigating to a separate screen.
* Inconsistent Back Buttons: Some back navigation was placed differently across screens.
* Lack of Clear Feedback on Actions: Success messages were sometimes unclear or too fast to notice.

**Actions Taken:**

* Added visible “+ Restock” button and modal confirmation.
* Standardized back button placement across all screens.
* Added success toasts and error indicators for better clarity.

**Improvement Areas:**

* Clarified restocking interaction by using a modal and clearer prompts.
* Unified navigation controls to prevent disorientation.
* Enhanced visual feedback for sales and updates.

**Critique and Summary**

**Advantages of Evaluation:**

* **Efficient Remote Testing:** Enabled broader participation via Discord and Teams.
* **Real-time Feedback:** Immediate reactions and questions during testing provided richer insights.
* **Accessible Setup:** Users could test on their own devices, replicating real-world usage.

**Disadvantages of Evaluation:**

* **Connection Interruptions:** Affected some participants’ timing and flow.
* **No In-Person Observation:** Unable to assess hesitations or confusion through body language.
* **Single Iteration:** Only one feedback cycle was completed due to time constraints.

**Future Considerations**

With additional time and resources, we plan to:

* Conduct two-phase testing (before and after major revisions).
* Integrate real backend functionality with actual data persistence.
* Add features like:
  + **Push notifications** for low stock alerts.
  + **Syncing data across devices**.
  + **Barcode scanning** for faster product entry.

**Conclusion:**

The evaluation successfully validated **KITA KO** as a usable and promising solution for small business inventory and income tracking. Its core features — product management, restocking, sales logging, and income summary — were functional and accessible.

Minor refinements around restocking UX and navigation consistency were addressed based on participant feedback. The app shows strong potential to support micro-entrepreneurs and paves the way for future development into a fully functional business assistant tool.