Final Project: Feature Walkthrough

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CS499- Computer Science Capstone

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**Enhancement 1: Java to Kotlin and project refactoring**

This enhancement can be observed by looking at the source code files for this project in Android Studio.

**Enhancement 2: Added Sort and Search Features using Data Structures and Algorithms**

A screenshot of a phone

AI-generated content may be incorrect.

A query for “Beans” is performed. This test reflects the logic where the more than just the first word of a string is searched.

A screenshot of a phone

AI-generated content may be incorrect.

A query is performed showcasing the usability of the feature to search for items starting with an “A”.

A screenshot of a computer

AI-generated content may be incorrect.

The main inventory table has been sorted (descending) alphabetically using Heap Sort.

A screenshot of a phone

AI-generated content may be incorrect.

Upgrading the UI included the addition of cards for each item that is selected. This offers the user a convenient option for updating quantities.

A screenshot of a cell phone

AI-generated content may be incorrect.

After updating the quantity on the item card, this change is reflected back in the main table.

A screenshot of a cell phone

AI-generated content may be incorrect.

While this is not a new enhancement, SMS notifications still remain as part of the app’s features.

**Enhancement 3: Upgraded the database to use Firestore, a cloud-based NoSQL solution**

A screenshot of a phone

AI-generated content may be incorrect.

A new user account is registered.

A screenshot of a computer

AI-generated content may be incorrect.

Firestore reflects that the new user account has been added to the database.

A screenshot of a computer

AI-generated content may be incorrect.

The previously changed quantity for “Zucchini” is also reflected in the Firestore Database.

A screenshot of a login form

AI-generated content may be incorrect.

A new item is added to the inventory.

A screenshot of a phone

AI-generated content may be incorrect.

The new item is reflected in the inventory, also showcasing the search feature.

A screenshot of a computer

AI-generated content may be incorrect.

The newly added item also appears in the items collection of the cloud-based database.