Testing report

Test team: UnrealShooter

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Number	Test/requirement description	Input/Steps	Expected result	Result
1.	The system must allow users to create an account by providing basic information such as name, email, and password.	1. Navigate to the Sign-Up page 2. Open the registration form 3. Enter full name, email, and password 4. Click the "Register" button 5. Proceed to login or dashboard	Account created successfully and user redirected	✅ Pass
2.	The system must allow users to log in using their email and password	1. Open login page 2. Enter valid credentials 3. Click "Login"	User successfully logs in and sees dashboard	✅ Pass
3.	The system must allow users to scan the barcode of a product to automatically record its details (name, quantity) and link it to the product entry.	1. Open scanner 2. Scan barcode of product	Product name and quantity are automatically displayed and added to inventory	After scanning the QR code, no data is filled in automatically — the user has to enter everything manually. It was expected that the

				information would be retrieved automatically.
4.	The system must allow weight sensors to record the weight of each product placed on the designated shelf and store this information in the system.	1. Place product on shelf 2. Trigger weight measurement	Weight recorded and stored in database	❌ Fail (Weight sensor integration not yet working)
5.	the system must detect any changes in weight when products are removed from or added to the shelf and update the inventory accordingly.	1. Remove/add product 2. Observe inventory changes	Inventory updates to reflect product removal/addition	❌ Fail (Weight sensor integration not yet working)
6.	The system must send notifications (email, SMS, or push) to users when a product is nearing its expiry date or has already expired.	1. Wait until expiry date approaches or passes 2. Check notification channels	User receives appropriate notification	The system currently sends email notifications **only** for password resets — other types of notifications are not implemented yet. Initially, I wasn't aware of this limitation.
7.	The system must display a list of all products currently stored in the fridge, including their names, quantities, expiry dates.	1. Open inventory interface	Complete product list displayed with all required details	✅ Pass
8.	The system must allow users to search for products by name,	1. Use search bar 2. Enter product name/date/location	Relevant products are displayed	✅ Pass

	expiry date, or location within the fridge.			
9.	The system must process the sensor data to calculate the remaining quantity of products based on weight measurements and provide accurate insights on product usage.	1. Remove partial quantity from shelf 2. Observe changes	Quantity recalculated based on weight data	❌ Fail (Weight sensor integration not yet working)
10.	The system must provide a response time of under 2 seconds for any user action, such as logging in, scanning a barcode, or updating the inventory data. The system should process barcode scans and update the product information within 1 second after scanning.	1. Perform various user actions	Responses occur within 2 seconds	✅ Pass
11.	Real-time data syncing between sensors and the server should happen every 1-2 seconds to ensure the most up-to-date inventory and weight information is displayed in the user interface.	1. Modify product shelf weight 2. Check UI updates	Sync reflects changes within 2 seconds	❌ Fail (Weight sensor integration not yet working)