Diet aware shopping assistant requirements

Functional Requirements

Requirement	Additional Details

Software must be able to recommend products to the customer.	• Recommend products to the customer whilst being respective to their preference.
	  ◦ Such as if they have a medical condition
	  ◦ Lifestyle imposed constraint
	  ◦ Dietary/nutrition needs.
	• So that the customer is able to make better decisions based on the quality attributes that they set in the diet-awareness shopping assistant app.

A bar scanner for scanning product.	• A bar scanner must be included so that the customer is able to scan a product whilst browsing in-store.
Software must allow customer to apply their preferences	• The customer has the right to make changes to their preferences so that they can be recommended with products that is suitable for the health. ◦ Can make changes to their preference if needed.
Must allow customer to update their preferences if needed	• The customer has the right to update their dietary preferences so that they can receive further or new recommendation of products. • For making better informed decisions.
Software must alert customer to any food allergens or food that does not comply to their dietary needs.	• The software must alert the customer if they are selecting a product that contain ingredients that the customer is allergic to. • Alerting those if they are selecting products that are following the customers lifestyle imposed constraints. ◦ I.e halal or non-halal.

Non-functional Requirements

Requirements	Additional Details
Diet-aware shopping assistant must be secure	• Information relating to the customer's data must be kept secure and remain confidential. • The software should always be in full-screen mode with a login credential set by the IT administrator of the supermarket to prevent the user from leaving the app. • The software should prevent the user from launching another app or browsing through the tablet's contents in full-screen mode.
Bar-code scanner must not take more than 10 second to scan.	• Diet-aware shopping assistant must not take more than 10 seconds to scan an item.

Diet-aware shopping assistant must be easy-to-use for all ethnic backgrounds.	• Must be easy-to-use for all ethnic background such that it does not involve user training. • Must be easy-to-use for teenagers 18 or over, and for elder users.

It must provide ease-of-access use for those who have disability.	• The software must feature various user-accessibility tools so that impaired users, or those with disability or from other ethnic backgrounds are able to interact with the system with ease of access.
	• Serving users with a wide-range of disability.
	  ○ I.e dyslexia mode.
	  ○ Increase font size.
	  ○ Touch sensitivity
	  ○ many more...

The diet-aware shopping assistant is going to run on a touchscreen	• The diet-aware shopping assistant is simply going to be a table which is roughly half the size of A4 Paper. ○ Which is going to be attached to the handle bar of the trolley.
Must be able to timely make decisions	• It must not take more than 10 seconds to recommend a product to the customer
UI must be less cluttered with text	• The diet-aware shopping assistant's UI must contain less text in order to easily navigate and utilise the system. • The UI must favour a combination of images and some text. • Avoid causing an excess of them.

Prioritise Requirements

Requirement Type	Additional Details
Most	
Should	
Could	
Won't	