Diet aware shopping assistant requirements

# Functional Requirements

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| **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

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| **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

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| **Requirement Type** | **Additional Details** |
| Most |  |
| Should |  |
| Could |  |
| Won’t |  |