**Functional requirement**

**Requirement** #: 01 **Requirement** **Type**: Functional

**Description**: The system must offer the user a variety of healthy meals to choose from considering the user’s specific dietary goals or allergenic needs.

**Rationale**: Offer the user a range of meals to choose from that are filtered around the user’s dietary goals and allergenic needs.

**Fit** **Criterion**: The system offers the users a range of meals to choose from which is filtered by the dietary and allergenic goals and needs of the user.

**Requirement** #: 02 **Requirement** **Type**: Functional

**Description**: The system must allow the user to set dietary goals and allergenic needs within the system.

**Rationale**: To enable the system to filter the meal displayed to the user based on their dietary goals or allergenic needs.

**Fit** **Criterion**: The user is able to specify their dietary goals or allergenic needs within the system.

**Requirement** #: 03 **Requirement** **Type**: Functional

**Description**: The system must enable the user to view any past purchases that they might have made.

**Rationale**: A user can look at their history of purchased meals so that they can keep track of the money they are spent each week.

**Fit** **Criterion**: The user can view the date, the price, and the meal which was purchased from ranging from the current day to three weeks back.

**Requirement** #: 04 **Requirement** **Type**: Functional

**Description**: The system must enable the user to log in via an RFID card (student cards).

**Rationale**: To allow the student to log in to use the system allowing them to have their own profile on the system

**Fit** **Criterion**: The users are able to log into the system by swiping their student cards on an RFID reader. This will enable them to each have their own profiles storing their dietary or allergenic needs.

**Data requirement**

**Requirement** #: 05 **Requirement** **Type**: Data Requirement

**Description**: All data relating to dieting foods must be updated every month.

**Rationale**: To offer users new choices of meals to select from.

**Fit** **Criterion**: The updated data must not include any recipes which were available from within the last two months. The data needs to be populated every two months to offer users more variety of meals.

**Environmental requirement**

**Requirement** #: 06 **Requirement** **Type**: Environmental Requirement

**Description**: The product will need to be functional in a dynamic environment (busy as well as quiet).

**Rationale**: The system must be able to take the consistence usage load of it being used at lunch times, and conserve energy when not in constant use.

**Fit** **Criterion**: The system will need to adapt to the workload presented at certain times of the day of the amount of usage from the users. It should conserve energy when not used for 15 minute, and add more processing power during lunch times.

**Requirement** #: 07 **Requirement** **Type**: Environmental Requirement

**Description**: The product’s screen must not reflect light.

**Rationale**: The product will be placed inside a refectory which has lights mounted on the ceiling which might cause glare on the screen.

**Fit** **Criterion**: The product’s screen needs to be anti-glare since lights on the ceiling might cause glare on the screen for the users.

**User requirements**

**User Requirements**

**Requirement** #: 08 **Requirement** **Type**: User Requirement

**Description**: The user should be intermediately skilled at using touchscreen, i.e. a casual user.

**Rationale**: The product will be touchscreen driven, and so the user will need to be familiar in using touchscreen from past experiences.

**Fit** **Criterion**: The user will be able to recognise icons, and terms on the screen from having used touchscreens in the past. This will enable them to navigate more efficiently through the system.

**Usability Requirements**

**Requirement** #: 09 **Requirement** **Type**: Usability Requirement

**Description**: The system’s interface must be consistent in design and structure throughout.

**Rationale**: To increase the usability of the system for the user so that they can get used navigating and using the system.

**Fit** **Criterion**: The system must enforce consistency in design and structure throughout by using the same colour scheme, navigation and button styles.

**Accessibility Requirements**

**Requirement** #: 10 **Requirement** **Type**: Usability Requirement

**Description**: The system must feature contrasting colours to accommodate for users with colour blindness.

**Rationale**: The system will be used by many users, and so its colour scheme will need to take into account the possibilities of people with colour blindness using it.

**Fit** **Criterion**: The colour scheme of the system needs to contain contrasting colours so that users with colour blindness are able to distinguish between the various elements.