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# **Use Cases**

**for**

## **<Nutri-Vision>**

**Version 1.0 approved**

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## Revision History

Name	Date	Reason For Changes	Version
Haolun/Nahid	9/2/2024	First draft	1

Use Case ID:	LM1		
Use Case Name:	Log meal		
Created By:	Haolun	Last Updated By:	Haolun
Date Created:	08/02/2024	Date Last Updated:	15/02/2024

Actor:	User
Description:	User wants to know about their meal's nutritional information.
Preconditions:	User must have the app installed on their device.
Postconditions:	System brings the user to the Scanner UI.
Priority:	High
Frequency of Use:	High
Flow of Events:	<ol style="list-style-type: none"> <li>1. User clicks on the log meal button from home page(Home UI)</li> <li>2. User will be brought to the capture food image(Scanner UI)</li> </ol>
Alternative Flows:	LM1-AF-S1 user decides not to log meal: <ol style="list-style-type: none"> <li>1. User selects back.</li> <li>2. System brings the user to the homepage.</li> </ol>
Exceptions:	The database of the api does not have the calorie/nutritional content of the food input by the user
Includes:	Capture food image, Recapture Image, Identify food
Special Requirements:	Nil
Assumptions:	Nil
Notes and Issues:	Nil

Use Case ID:	CF11		
Use Case Name:	Capture food image		
Created By:	Haolun	Last Updated By:	Haolun
Date Created:	08/02/2024	Date Last Updated:	15/02/2024

Actor:	User
Description:	User capture a food item image
Preconditions:	User must have a working camera on their device.
Postconditions:	<ol style="list-style-type: none"> <li>1. Nutritional information of the scanned food is displayed to the user.</li> <li>2. Food item is logged in the user's dietary history.</li> </ol>
Priority:	High
Frequency of Use:	High
Flow of Events:	<ol style="list-style-type: none"> <li>1. User selects the option to take a live photo of a food item within the app.</li> <li>2. The app processes the image and retrieves the nutritional information from the integrated API.</li> <li>3. User will be brought to the Nutritional Information UI</li> <li>4. The app displays the nutritional information to the user.</li> <li>5. The app records down the nutritional information in the database and readily accessible at the History UI</li> </ol>
Alternative Flows:	CF1-AF-S1 user decides to upload image instead of scan: <ol style="list-style-type: none"> <li>1. System processes the image and retrieves the nutritional information from the integrated API.</li> <li>2. System displays the nutritional information to the user.</li> </ol>
Exceptions:	If the app cannot recognize the food item, the user will be prompted to enter the food details manually.
Includes:	Recapture food image, Identify food
Special Requirements:	<ol style="list-style-type: none"> <li>1. Scanning feature must be quick and responsive to ensure a smooth user experience.</li> <li>2. App must provide clear instructions for what is a good photo to be used for examining calorie content</li> </ol>
Assumptions:	Nil
Notes and Issues:	Food might be covered/not seen in the photo, how to calculate the calories of those?

Use Case ID:	RFI1		
Use Case Name:	Recapture food image		
Created By:	Haolun	Last Updated By:	Haolun
Date Created:	08/02/2024	Date Last Updated:	15/02/2024

Actor:	User
Description:	User recapture the food item image as the image was not clear.
Preconditions:	User must have a working camera on their device.
Postconditions:	<ol style="list-style-type: none"> <li>1. Nutritional information of the scanned food is displayed to the user.</li> <li>2. Food item is logged in the user's dietary history.</li> </ol>
Priority:	Low
Frequency of Use:	Low
Flow of Events:	<ol style="list-style-type: none"> <li>1. The user will be prompted to take another photo of the food item.</li> <li>2. The app processes the image and retrieves the nutritional information from the integrated API.</li> <li>3. User will be brought to the Nutritional Information UI</li> <li>4. The app displays the nutritional information to the user.</li> <li>5. The app records down the nutritional information in the database and is readily accessible at the History UI.</li> </ol>
Alternative Flows:	RFI1-AF-S1 user decides to upload food image: <ol style="list-style-type: none"> <li>1. If the photo is not clear again, repeat RFI1.</li> </ol>
Exceptions:	If the system cannot recognize the food item, the user will be prompted to enter the food details manually.
Includes:	Identify food
Special Requirements:	<ol style="list-style-type: none"> <li>1. The scanning feature must be quick and responsive to ensure a smooth user experience.</li> <li>2. The app must provide clear instructions for what is a good photo to be used for examine calorie content</li> </ol>
Assumptions:	Nil
Notes and Issues:	Nil

Use Case ID:	VH1		
Use Case Name:	View History		
Created By:	Muhammad Nahid	Last Updated By:	Muhammad Nahid
Date Created:	08/02/2024	Date Last Updated:	16/02/2024

Actor:	User
Description:	User gets to view his past logged meals and track his dietary progress.
Preconditions:	User must have logged at least one meal prior.
Postconditions:	System will direct the user back to the home page or to the view meal entry page.
Priority:	Medium
Frequency of Use:	High
Flow of Events:	<ol style="list-style-type: none"> <li>1. User navigates to the view history section on the app.</li> <li>2. User selects the date range with the default being set to show all history.</li> </ol>
Alternative Flows:	<p>VH1-AF-S1 if user has not logged any meals:</p> <ol style="list-style-type: none"> <li>1. System shows "no meals logged".</li> </ol> <p>VH1-AF-S2A if user selects invalid date range:</p> <ol style="list-style-type: none"> <li>1. System displays string "invalid date range".</li> <li>2. System sets to default date range showing all history.</li> </ol> <p>VH1-AF-S2B if user selects back:</p> <ol style="list-style-type: none"> <li>1. System brings user back to home page.</li> </ol>
Exceptions:	Nil
Includes:	View Meal Entry.
Special Requirements:	Nil
Assumptions:	Users saved past meal logs accurately.
Notes and Issues:	Need to determine if the app will display charts and figures of the user's dietary progress.

Use Case ID:	VME1		
Use Case Name:	View Meal Entry		
Created By:	Muhammad Nahid	Last Updated By:	Muhammad Nahid
Date Created:	08/02/2024	Date Last Updated:	16/02/2024

Actor:	User
Description:	User gets to view a particular meal's nutritional info.
Preconditions:	User must have scanned a food item or clicked on a specific meal entry from view history.
Postconditions:	User will confirm the meal entry or edit meal entry.
Priority:	High
Frequency of Use:	High
Flow of Events:	<ol style="list-style-type: none"> <li>1. User views his meal information.</li> <li>2. User determines whether the information displayed is accurate.</li> <li>3. User selects confirm.</li> <li>4. System stores users' meal into database.</li> <li>5. System updates view meal history page.</li> <li>6. System brings user back to home page.</li> </ol>
Alternative Flows:	<p>VME1-AF-S1A if meal information is not correct:</p> <ol style="list-style-type: none"> <li>1. User selects edit.</li> <li>2. User is brought to edit meal entry page.</li> </ol> <p>VME1-AF-S1B if user decides to select back and was previously from view meal history page:</p> <ol style="list-style-type: none"> <li>1. User selects back.</li> <li>2. User is brought to view meal history page.</li> </ol> <p>VME1-AF-S1B if user decides to select back and was previously from capture food image page:</p> <ol style="list-style-type: none"> <li>1. User selects back.</li> <li>2. User is brought to capture food image page.</li> </ol>
Exceptions:	Nil
Includes:	Confirm Meal Entry.
Special Requirements:	Nil
Assumptions:	Nil
Notes and Issues:	Nil

Use Case ID:	EME1		
Use Case Name:	Edit Meal Entry		
Created By:	Muhammad Nahid	Last Updated By:	Muhammad Nahid
Date Created:	08/02/2024	Date Last Updated:	16/02/2024

Actor:	User
Description:	User gets to edit his meal entry to improve the accuracy.
Preconditions:	User must have clicked on edit meal from view meal entry page.
Postconditions:	System will save meal entry upon confirmation.
Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"> <li>1. User is asked to input their meal into a search bar.</li> <li>2. User selects his meal from the list of closest matches.</li> <li>3. User selects confirm.</li> </ol>
Alternative Flows:	<p>EME1-AF-S1 If user decides to select back:</p> <ol style="list-style-type: none"> <li>1. User selects "back" button.</li> <li>2. User is brought to view meal entry page.</li> </ol> <p>EME1-AF-S2 If user's meal is not in database:</p> <ol style="list-style-type: none"> <li>1. The user does not see his meal in the list of options.</li> <li>2. The user selects "Enter Manually" button</li> <li>3. The user inputs the name of the meal and it's macros manually, based on his personal estimation.</li> <li>4. The user selects confirm.</li> </ol>
Exceptions:	Nil
Includes:	Confirm Meal Entry.
Special Requirements:	Nil
Assumptions:	Nil
Notes and Issues:	Nil



Use Case ID:	CME1		
Use Case Name:	Confirm Meal Entry		
Created By:	Muhammad Nahid	Last Updated By:	Muhammad Nahid
Date Created:	08/02/2024	Date Last Updated:	16/02/2024

Actor:	User
Description:	User confirms a meal entry after scanning or editing, which then gets updated in the system.
Preconditions:	User must have viewed the meal entry or edited the meal entry prior.
Postconditions:	System will update the database on the user's meal. System will update the view meal history page. System will direct the user back to the home page.
Priority:	High
Frequency of Use:	High
Flow of Events:	<ol style="list-style-type: none"> <li>1. User selects confirm.</li> <li>2. System updates the database.</li> <li>3. System updates view meal history page with new meal entry.</li> <li>4. User is brought to the home page.</li> </ol>
Alternative Flows:	CME1-AF-S1 If user selects back instead of confirm: <ol style="list-style-type: none"> <li>1. User selects back.</li> <li>2. User is brought to the edit meal entry page.</li> </ol>
Exceptions:	Nil
Includes:	Nil
Special Requirements:	Nil
Assumptions:	Nil
Notes and Issues:	Nil

Use Case ID:	RG1		
Use Case Name:	Registration		
Created By:	Haolun	Last Updated By:	Haolun

Date Created:	08/02/2024	Date Last Updated:	15/02/2024
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Actor:	User
Description:	User registers a unique account with username and password.
Preconditions:	User must have the app installed.
Postconditions:	User is able to log in with their unique username and password.
Priority:	High
Frequency of Use:	Low
Flow of Events:	<ol style="list-style-type: none"> <li>1. User will register on the login page.</li> <li>2. User has to register a brand new username</li> <li>3. User has to register a brand new password.</li> <li>4. The username and password will be stored in the database.</li> <li>5. User will be able to login with their username and password</li> </ol>
Alternative Flows:	<p>RG1-AF-S1 if user has already registered:</p> <ol style="list-style-type: none"> <li>1. The user has registered and proceeds to login.</li> </ol> <p>RG1-AF-S2 if username already exists (After checking with the database):</p> <ol style="list-style-type: none"> <li>1. User has to re-enter another username.</li> <li>2. User has to register a brand new password.</li> <li>3. The username and password will be stored in the database.</li> <li>4. User will be able to login with their username and password.</li> </ol> <p>RG1-AF-S3 If the password does not meet the requirements:</p> <ol style="list-style-type: none"> <li>1. System will prompt user about the requirements</li> <li>2. User has to re-enter a new password.</li> <li>3. The username and password will be stored in the database.</li> <li>4. User will be able to login with their username and password</li> </ol>
Exceptions:	Nil
Includes:	Set/Edit Personal Information
Special Requirements:	The password must have a minimum of 8 characters, 1 upper case, 1 lower case, 1 numeric character, 1 special symbol.
Assumptions:	Nil
Notes and Issues:	Nil

Use Case ID:	SEPI1		
Use Case Name:	Set/Edit Personal Information		
Created By:	Haolun	Last Updated By:	Haolun
Date Created:	08/02/2024	Date Last Updated:	15/02/2024

Actor:	User
Description:	User is able to set and edit their personal information.
Preconditions:	User must be registered.
Postconditions:	User's personal information will be saved in their profile
Priority:	Medium
Frequency of Use:	Low
Flow of Events:	<ol style="list-style-type: none"> <li>1. User will be prompted to enter their personal information.</li> <li>2. System saves the user's personal information in the database and can be viewed under the Profile UI.</li> </ol>
Alternative Flows:	SEPI1-AF-S1 user decided not to enter personal information: <ol style="list-style-type: none"> <li>1. User press on the skip button.</li> <li>2. User will be brought to the homepage.</li> </ol>
Exceptions:	Nil
Includes:	Nil
Special Requirements:	Nil
Assumptions:	Nil
Notes and Issues:	Nil

Use Case ID:	LG1		
Use Case Name:	Login		
Created By:	Hao Lun	Last Updated By:	Muhammad Nahid
Date Created:	08/02/2024	Date Last Updated:	09/02/2024

Actor:	User
Description:	User is able to login with their username and password
Preconditions:	User must be registered.
Postconditions:	User will have access to all the functionality of the app.
Priority:	High
Frequency of Use:	High
Flow of Events:	<ol style="list-style-type: none"> <li>1. User will open the app</li> <li>2. User will enter their username and password</li> <li>3. System will check against the database if the password is correct.</li> <li>4. User will be logged in and brought to the homepage.</li> </ol>
Alternative Flows:	<p>LG1-AF-S2 if user enters wrong username: System prompts user to re-enter username.</p> <ol style="list-style-type: none"> <li>1. User will enter their password.</li> <li>2. User will be brought to the home page.</li> </ol> <p>LG1-AF-S3 if user enters wrong password:</p> <ol style="list-style-type: none"> <li>1. System prompts user to re-enter password</li> <li>2. User will be brought to homepage</li> </ol>
Exceptions:	Nil
Includes:	Nil
Special Requirements:	Nil
Assumptions:	User remembers the username and password.
Notes and Issues:	Nil