## **Use Cases**

for

## <Nutri-Vision>

Version 1.0 approved

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08/02/2024

## **Revision History**

Name	Date	Reason For Changes	Version
Haolun/Nahid	9/2/2024	First Draft	1
Haolun/Nahid	15/2/2024	Second Draft	2
Haolun/Nahid	27/2/2024	Third Draft	3

Use Case ID:	LM1		
Use Case	Log meal		
Name:			
Created By:	Haolun	Last Updated By:	Haolun
Date Created:	08/02/2024	Date Last	27/02/2024
		Updated:	

Actor:	User	
Description:	User wants to know about their meal's nutritional information.	
Preconditions:	User must have the app installed on their device.	
	User must have an account tied to the system.	
Postconditions:	System brings the user to the Scanner UI.	
Priority:	High	
Frequency of Use:	High	
Flow of Events:	User clicks on the log meal button from home page	
	User will be brought to the Scanner UI	
Alternative Flows:	LM1-AF-S1 user decides not to log meal:	
	User selects back.	
	System brings the user to the homepage.	
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:	CFI1		
Use Case	Capture food image		
Name:	,		
Created By:	Haolun	Last Updated By:	Haolun
Date Created:	08/02/2024	Date Last	26/02/2024
		Updated:	

Actor:	User	
Description:	User captures a food item image.	
Preconditions:	<ol> <li>User must have a working camera on their device.</li> <li>User must have allowed camera and gallery access permission for the app.</li> </ol>	
Postconditions:	<ol> <li>Nutritional information of the scanned food is displayed to the user.</li> <li>Food item is logged in the user's dietary history.</li> </ol>	
Priority:	High	
Frequency of Use:	High	
Flow of Events:	<ol> <li>User selects the option to take a live photo of a food item or upload a photo from their gallery</li> <li>The app processes the image and retrieves the nutritional information from the integrated API.</li> <li>User will be brought to the Nutritional Information UI</li> <li>The app displays the nutritional information to the user.</li> <li>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:  1. System processes the image and retrieves the nutritional information from the integrated API.  2. System displays the nutritional information to the user CF1-AF-S2 user decides to not to capture Image:  1. User selects back.  2. System brings the user to the log meal page.	
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> <li>Scanning feature must be quick and responsive to ensure a smooth user experience.</li> <li>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	Recapture food image		
Name:	_		
Created By:	Haolun	Last Updated By:	Haolun
Date Created:	08/02/2024	Date Last Updated:	26/02/2024

Actor:	User	
Description:	User recaptures the food item image as the image was not clear.	
Preconditions:	<ol> <li>User must have a working camera on their device.</li> <li>Capture food image must happen first.</li> </ol>	
Postconditions:	<ol> <li>Nutritional information of the scanned food is displayed to the user.</li> <li>Food item is logged in the user's dietary history.</li> </ol>	
Priority:	Low	
Frequency of Use:	Low	
Flow of Events:  Alternative Flows:	<ol> <li>The user will be prompted to take or upload another photo of the food item.</li> <li>The app processes the image and retrieves the nutritional information from the integrated API.</li> <li>User will be brought to the Nutritional Information UI</li> <li>The app displays the nutritional information to the user.</li> <li>The app records down the nutritional information in the database and is readily accessible at the History UI.</li> <li>RFI1-AF-S1 user's image is not clear again:         <ol> <li>Repeat RFI1</li> </ol> </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> <li>The scanning feature must be quick and responsive to ensure a smooth user experience.</li> <li>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	View History		
Name:	-		
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:	1. User navigates to the view history section on the app.		
	2. User selects the date range with the default being set		
	to show all history.		
Alternative Flows:	VH1-AF-S1 if user has not logged any meals:		
	System shows "no meals logged".		
	VH1-AF-S2A if user selects invalid date range:		
	<ol> <li>System displays string "invalid date range".</li> </ol>		
	2. System sets to default date range showing all history.		
	VH1-AF-S2B if user selects back:		
	<ol> <li>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	View Meal Entry		
Name:			
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:	User views his meal information.	
	2. User determines whether the information displayed is	
	accurate.	
	User selects confirm.	
	System stores users' meal into database.	
	5. System updates view meal history page.	
	6. System brings user back to home page.	
Alternative Flows:	VME1-AF-S1A if meal information is not correct:	
	User selects edit.	
	<ol><li>User is brought to edit meal entry page.</li></ol>	
	VME1-AF-S1B if user decides to select back and was	
	previously from view meal history page:	
	User selects back.	
	User is brought to view meal history page.	
	VME1-AF-S1B if user decides to select back and was	
	previously from capture food image page:	
	User selects back.	
	User is brought to capture food image page.	
Exceptions:	Nil	
Includes:	Confirm Meal Entry.	
Special Requirements:	Nil	
Assumptions:	Nil	
Notes and Issues:	Nil	

Use Case ID:	EME1		
Use Case	Edit Meal Entry		
Name:	-		
Created By:	Muhammad Nahid	Last Updated By:	Muhammad Nahid
Date Created:	08/02/2024	Date Last Updated:	26/02/2024

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:	User is asked to input their meal into a search bar.		
	User selects his meal from the list of closest matches.		
	User selects confirm.		
Alternative Flows:	EME1-AF-S1 If user decides to select back:		
	User selects the "back" button.		
	User is brought to view meal entry page.		
	EME1-AF-S2 If user's meal is not in database:		
	The user does not see his meal in the list of options.		
	The user selects "Enter Manually" button		
	3. The user inputs the name of the meal and it's macros		
	manually, based on his personal estimation.		
	4. The user selects confirm.		
Exceptions:	Nil		
Includes:	Confirm Meal Entry.		
Special Requirements:	Nil		
Assumptions:	Nil		
Notes and Issues:	Nil		

Use Case ID:	CME1		
Use Case	Confirm Meal Entry		
Name:	-		
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:	User selects confirm.		
	2. System updates the database.		
	System updates view meal history page with new		
	meal entry.		
	4. User is brought to the home page.		
Alternative Flows:	CME1-AF-S1 If user selects back instead of confirm:		
	1. User selects back.		
	2. User is brought to the edit meal entry page.		
Exceptions:	Nil		
Includes:	Nil		
Special Requirements:	Nil		
Assumptions:	Nil		
Notes and Issues:	Nil		

Use Case ID:	RG1		
Use Case	Registration		
Name:			
Created By:	Haolun	Last Updated By:	Haolun
Date Created:	08/02/2024	Date Last Updated:	27/02/2024

Actor:	User	
Description:	User registers a unique account with username and	
	password.	
Preconditions:	User must have the app installed.	
	User account must not already exist in the database.	
Postconditions:	User is able to log in with their unique username and	
	password.	
Priority:	High	
Frequency of Use:	Low	
Flow of Events:	User will register on the login page.	
	2. User has to register a brand new username	
	3. User has to register a brand new password.	
	4. The username and password will be stored in the	
	database.	
	5. User will be able to login with their username and	
	password	
Alternative Flows:	RG1-AF-S1 if user has already registered:	
	The user has registered and proceeds to login.	
	RG1-AF-S2 if username already exists (After checking with	
	the database):	
	User has to re-enter another username.	
	User has to register a brand new password.	
	The username and password will be stored in the	
	database.	
	User will be able to login with their username and	
	password.	
	RG1-AF-S3 If the password does not meet the requirements:	
	System will prompt user about the requirements	
	User has to re-enter a new password.	
	3. The username and password will be stored in the	
	database.	
	4. User will be able to login with their username and	
	password	
Exceptions:	Nil	
Includes:	Set/Edit Personal Information	
Special Requirements:	The password must have a minimum of 8 characters, 1 upper	
Tracial regulationion.	case, 1 lower case, 1 numeric character, 1 special symbol.	
Assumptions:	Nil	
Notes and Issues:	Nil	
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Use Case ID:	SEPI1		
Use Case	Set/Edit Personal Information		
Name:			
Created By:	Haolun	Last Updated By:	Haolun
Date Created:	08/02/2024	Date Last Updated:	27/02/2024

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> <li>User will be prompted to enter their personal information.</li> <li>User clicks on the edit profile button and input their personal information and clicks save after finishing</li> <li>System will check for the validity of the information and save the user's personal information in the database.</li> </ol>	
Alternative Flows:	SEPI1-AF-S1 user decided not to enter personal information:  1. User press on the skip button.  2. User will be brought to the homepage. SEPI1-AF-S2 user enters invalid personal information:  1. User will be prompted to correct the invalid information.  2. Repeat SEPI1-AF-S2 until all information are valid.  3. Valid information will be then saved in the database.	
Exceptions:	Nil	
Includes:	Nil	
Special Requirements:	Nil	
Assumptions:	Nil	
Notes and Issues:	Nil	

Use Case ID:	LG1		
Use Case	Login		
Name:	_		
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:	User will open the app		
	User will enter their username and password		
	System will check against the database if the		
	password is correct.		
	4. User will be logged in and brought to the homepage.		
Alternative Flows:	LG1-AF-S2 if user enters wrong username:		
	System prompts user to re-enter username.		
	User will enter their password.		
	User will be brought to the home page.		
	LG1-AF-S3 if user enters wrong password:		
	System prompts user to re-enter password		
	User will be brought to homepage		
Exceptions:	Nil		
Includes:	Nil		
Special Requirements:	Nil		
Assumptions:	User remembers the username and password.		
Notes and Issues:	Nil		