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:	Hao Lun	Last Updated By:	Muhammad Nahid
Date Created:	08/02/2024	Date Last Updated:	09/02/2024

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 user to capture food image page.
Priority:	High
Frequency of Use:	High
Flow of Events:	1. User selects log meal
Alternative Flows:	LM1-AF-S1 user decides not to log meal: 1. User selects back. 2. System brings the user to the home page.
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 Name:	Capture food image		
Created By:	Hao Lun	Last Updated By:	Muhammad Nahid
Date Created:	08/02/2024	Date Last Updated:	09/02/2024

Actor:	User
Description:	User capture a food item image
Preconditions:	User must have a working camera on their device.
Postconditions:	Nutritional information of the scanned food is displayed to the user. Food item is logged in the user's dietary history.
Priority:	High
Frequency of Use:	High
Flow of Events:	1. The user selects the option to scan a food item within the app. 2. The app processes the image and retrieves the nutritional information from the integrated API. 3. The app displays the nutritional information to the user.
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.
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:	Scanning feature must be quick and responsive to ensure a smooth user experience. App must provide clear instructions for what is a good photo to be used for examinng calorie content
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:	Hao Lun	Last Updated By:	Muhammad Nahid
Date Created:	08/02/2024	Date Last Updated:	09/02/2024

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:	Nutritional information of the scanned food is displayed to the user. Food item is logged in the user's dietary history.
Priority:	Low
Frequency of Use:	Low
Flow of Events:	1. The user will be prompted to scan the food item again. 2. The app processes the image and retrieves the nutritional information from the integrated API. 3. The app displays the nutritional information to the user.
Alternative Flows:	RFI1-AF-S1 user decides to upload food image: 1. System processes the image and retrieves the nutritional information from the integrated API. 2. System displays the nutritional information to the user.
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:	The scanning feature must be quick and responsive to ensure a smooth user experience. The app must provide clear instructions for what is a good photo to be used for examine calorie content
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:	09/02/2024

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 (default set to all history).
Alternative Flows:	VH1-AF-S1 if user has not logged any meals: 1. System shows "no meals logged".
Exceptions:	If the user selects an out of bound date range, the system sets the default date range.
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:	09/02/2024

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:	1. User views his meal information. 2. User selects confirm.
Alternative Flows:	VME1-AF-S2 if meal information is not correct: 1. User selects edit.
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:	09/02/2024

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.
Postconditions:	System will save meal entry upon confirmation.
Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	1. User is asked to input their meal into a search bar. 2. User selects his meal from the list of closest matches. 3. User selects confirm.
Alternative Flows:	EME1-AF-S2 If user's meal is not in database: 1. The user does not see his meal in the list of options. 2. The user has to input his macros manually. 3. 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 Name:	Confirm Meal Entry		
Created By:	Muhammad Nahid	Last Updated By:	Muhammad Nahid
Date Created:	08/02/2024	Date Last Updated:	09/02/2024

Actor:	User
Description:	Users confirm 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 direct the user back to the home page.
Priority:	High
Frequency of Use:	High
Flow of Events:	1. User selects confirm. 2. System updates the database. 3. User is brought to the home page.
Alternative Flows:	CME1-AF-S1 If user selects back instead of confirm: 1. The user selects back. 2. The user is brought to the edit page.
Exceptions:	Nil
Includes:	Nil
Special Requirements:	Nil
Assumptions:	Nil
Notes and Issues:	Nil

Use Case ID:	DPR1		
Use Case Name:	Dietary Plan Recommendations		
Created By:	Muhammad Nahid	Last Updated By:	Muhammad Nahid
Date Created:	08/02/2024	Date Last Updated:	09/02/2024

Actor:	User
Description:	User gets recommended meal plans based on his goals.
Preconditions:	User has registered and logged into the application. User has set his dietary preference. User has set his goals.
Postconditions:	The system will direct the user back to the home page.
Priority:	Low
Frequency of Use:	Low/Medium
Flow of Events:	1. User navigates to the view recommendations section on the app. 2. User selects which meal of the day (breakfast, lunch, dinner). 3. System displays recommended meal plans, along with recipes and macro counts. 4. User is brought back to the home page.
Alternative Flows:	DPR1-AF-S1 if user decides not to view recommendations: 1. User navigates to view recommendations sections on the app. 2. User selects back. 3. User is brought back to the home page.
Exceptions:	Nil
Includes:	Nil
Special Requirements:	Different meal plans based on different goals and dietary preferences.
Assumptions:	1. User has access to recommended meal plans.
Notes and Issues:	Nil

Use Case ID:	RG1		
Use Case Name:	Registration		
Created By:	Hao Lun	Last Updated By:	Muhammad Nahid
Date Created:	08/02/2024	Date Last Updated:	09/02/2024

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:	1. 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: 1. The user has registered and proceeds to login. RG1-AF-S2 if username already exists: 1. User has to re-enter another username. 2. User has to register a brand 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 RG1-AF-S3 If the password does not meet the requirements: 1. System will prompt user about the requirements 2. 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 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:	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 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:	1. User will be prompted to enter their personal information. 2. System saves user's info.
Alternative Flows:	1. SEPI1-AF-S1 user decided not to enter personal information: User selects back 2. System brings user to home page
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:	1. User will open the app 2. User will enter their username. 3. User will enter their password 4. User will be brought to the homepage.
Alternative Flows:	LG1-AF-S2 if user enters wrong username: System prompts user to re-enter username. 1. User will enter their password. 2. User will be brought to home page. LG1-AF-S3 if user enters wrong password: 1. System prompts user to re-enter password 2. User will be brought to home page
Exceptions:	Nil
Includes:	Nil
Special Requirements:	Nil
Assumptions:	User remembers the username and password.
Notes and Issues:	Nil