

Use Case Summary

Use Case ID	Description
UC001	Register an account
UC002	Login into the account
UC003	Logout
UC004	Reset password
UC005	View friends' status feed
UC006	Add new friends
UC007	Disconnect with friends
UC008	View schedules in the calendar
UC009	View event history
UC010	Create an event
UC011	Delete an event
UC012	Search for fitness facilities and eateries nearby using the GPS within 2km
UC013	View facility information (Rating, description, etc)
UC014	View the healthy dishes offered by a particular eatery
UC015	Add event from explore page to a calendar event
UC016	Display directions to fitness facilities and eateries
UC017	Get professional health and fitness advice
UC018	Edit profile photo in profile page
UC019	Edit password in profile page
UC020	Edit description in profile page
UC021	Mark an event as completed

Use Case Descriptions

Use Case ID:	UC001		
Use Case Name:	Register an account		
Created By:	Jeremy	Last Updated By:	Jeremy
Date Created:	24-01-22	Date Last Updated:	16-04-22

Actor:	Individual User
Description:	The user can register a new account
Preconditions:	1. The user has downloaded and started the system
Postconditions:	1. The system has created the User account 2. The system explains to the user why the account could not be created
Priority:	Low
Frequency of Use:	Low
Flow of Events:	<ol style="list-style-type: none"> The user selects “Register” at the login page. The system redirects to the account creation page and requests for the following inputs: <ol style="list-style-type: none"> Profile Photo Username Name Valid Email Address Password Confirm Password Date of Birth Gender Description User inputs the required fields The system validates the password and confirm password fields by confirming they are identical. If the information provided is verified, the system sends a request to the database server to create the user account The system redirects the user to the explore page
Alternative Flows:	<p>AF-S1: If the input is invalid for any of the following reasons. Invalid email address format, Password that is less than 8 characters, Email address is already registered with an account in the database server or any text box left blank.</p> <ol style="list-style-type: none"> The system will display an error message The system directs user back to the account creation page in step 2
Exceptions:	-
Includes:	-

Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	UC002		
Use Case Name:	Login into the account		
Created By:	Jeremy	Last Updated By:	Jeremy
Date Created:	24-01-22	Date Last Updated:	16-04-22

Actor:	Individual Users		
Description:	Perform a login procedure to allow user data and preferences to be saved in the device and in the cloud server		
Preconditions:	1. The user is not logged in		
Postconditions:	1. The user is logged in and redirected to the explore page		
Priority:	Medium		
Frequency of Use:	Medium		
Flow of Events:	<ol style="list-style-type: none"> 1. The user inputs the email address and password at the login page 2. The system will validate information with the database server 3. If the information is verified, the system will load the appropriate user profile into the device 4. The system redirects the user to the explore page 		
Alternative Flows:	<p>AF-S3: If username or password is not valid:</p> <ol style="list-style-type: none"> 1. The system displays an error message as a toast message 2. The user goes back to step 1 <p>AF-S3: If the email address input does not exist in the database:</p> <ol style="list-style-type: none"> 1. The system will display the appropriate error message for 2 seconds 2. The system will require the user to the “register new account” 3. The user returns to step 1 and checks the input 		
Exceptions:	-		
Includes:	-		
Special Requirements:	-		
Assumptions:	-		
Notes and Issues:	-		

Use Case ID:	UC003		
Use Case Name:	Logout		
Created By:	Jeremy	Last Updated By:	Jeremy
Date Created:	24-01-22	Date Last Updated:	16-04-22

Actor:	Individual User
Description:	The user can log out of the system
Preconditions:	1. The user is logged in
Postconditions:	1. User logs out and return to the login page
Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"> 1. The user clicks the more options button at the top right corner of the app 2. The system shall display a pop up window with the log-out option 3. The user clicks on the logout button 4. The system will end the user session from the system and direct the user to the login page
Alternative Flows:	-
Exceptions:	-
Includes:	-
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	UC004		
Use Case Name:	Reset password		
Created By:	Jeremy	Last Updated By:	Jeremy
Date Created:	24-01-22	Date Last Updated:	16-04-22

Actor:	Individual User
Description:	The user forgets password
Preconditions:	1. The user has an account registered
Postconditions:	1. The system sends an email detailing the steps to reset the password to the user's registered email address
Priority:	Medium
Frequency of Use:	Low

Flow of Events:	<ol style="list-style-type: none"> 1. The user clicks on the “Forgot Password” button at the login page 2. The system redirects the user to the reset password page and requests the user to input their email address 3. The user inputs their email address 4. The system will verify the email address with the account information in the database 5. If the system verifies the email address, the system will send an email to the user detailing the steps to reset the password 6. The user exits the system and looks up the email to reset their password 7. The user will be shown a confirmation page upon successful password reset
Alternative Flows:	AF-S5: If the email address does not exist in the database <ol style="list-style-type: none"> 1. The system will display an the appropriate error message 2. The system redirects to step 3
Exceptions:	-
Includes:	-
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	UC005		
Use Case Name:	View friends’ status feed		
Created By:	Jeremy	Last Updated By:	Jeremy
Date Created:	24-01-22	Date Last Updated:	16-04-22

Actor:	Individual User
Description:	Social Page is filled with cards which detail the individual user’s and friends’ pertinent activities.
Preconditions:	1. The user has logged in
Postconditions:	1. The system displays status cards to the user
Priority:	Medium
Frequency of Use:	High
Flow of Events:	<ol style="list-style-type: none"> 1. The user selects social page icon from bottom bar 2. Social page is displayed with list of cards in chronological order detailing friend’s activities
Alternative Flows:	-
Exceptions:	-

Includes:	-
Special Requirements:	-
Assumptions:	Individual User and friends are actively using the app
Notes and Issues:	-

Use Case ID:	UC006		
Use Case Name:	Add new friends		
Created By:	Sishi	Last Updated By:	Sishi
Date Created:	01-04-22	Date Last Updated:	15-04-22

Actor:	Individual User
Description:	The user adds a new friend to be able to view their social feed
Preconditions:	<ol style="list-style-type: none"> 1. The user and their friends both must have an account 2. The user and the user they want to be friends with must not already be friends
Postconditions:	<ol style="list-style-type: none"> 1. The user has a new friend
Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"> 1. The user clicks on “Friends” at the Profile page 2. The system redirects the user to the “My Friends” page 3. The user clicks on the “add new friend” icon on the “My Friends” page 4. The system will redirect the user to the “Search for Friend” page 5. The user clicks on a card displaying a foreign user’s profile from a list of cards 6. The system will redirect to the foreign user’s profile 7. The user clicks on “+” icon on the foreign user’s profile 8. The system will add the foreign user to the user’s friend list in the database. The system will add the user to the foreign user’s friend list in the database. 9. The system will display “-” instead of “+” icon to the user on the newly added friend’s profile
Alternative Flows:	-
Exceptions:	-
Includes:	-
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	UC007		
Use Case Name:	Disconnect with friends		
Created By:	Sishi	Last Updated By:	Sishi
Date Created:	15-04-22	Date Last Updated:	15-04-22

Actor:	Individual User
Description:	The user disconnects with a friend
Preconditions:	<ol style="list-style-type: none"> 1. The user and the user to be disconnected must already be friends 2. The user must be at the friend's profile page
Postconditions:	<ol style="list-style-type: none"> 1. The user and the other user are no longer friends
Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"> 1. The user clicks on “-” icon on the current friend's profile page 2. The system will prompt the user with a confirmation dialogue message “Are you sure?” 3. If the user clicks on “Yes”, the system will remove the current friend from the user's friend list in the database. 4. The system will display “+” instead of “-” icon to the user on the removed friend's profile
Alternative Flows:	AF-S3: If the user clicks on “No” <ol style="list-style-type: none"> 1. The user and current friend remain friends. 2. The user goes back to step 1
Exceptions:	-
Includes:	-
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	UC008		
Use Case Name:	View schedules in the calendar		
Created By:	Jeremy	Last Updated By:	
Date Created:	01-02-22	Date Last Updated:	

Actor:	Individual User
Description:	The user views the following in a calendar format: <ol style="list-style-type: none"> 1. Events

Preconditions:	1. The user is logged in
Postconditions:	1. The system displays calendar and events for the day selected
Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"> 1. The user selects the Calendar Page from bottom navigation bar 2. The user selects the date of activity to display events for that day
Alternative Flows:	-
Exceptions:	-
Includes:	-
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	UC009		
Use Case Name:	View event history		
Created By:	Jeremy	Last Updated By:	
Date Created:	01-02-22	Date Last Updated:	

Actor:	Individual User
Description:	The user is able to view the history of all events created locally in a chronologically ordered list.
Preconditions:	<ol style="list-style-type: none"> 1. The user is logged in 2. The user is at calendar page
Postconditions:	2. The system displays calendar and events for the day selected
Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"> 1. The system uses the included use case “View schedules in the calendar” to arrive at the calendar page. 2. The user clicks on the “Events History” Button 3. The system displays all events created by the local user in chronological order.
Alternative Flows:	-
Exceptions:	-
Includes:	8: View schedules in the calendar
Special Requirements:	-
Assumptions:	-

Notes and Issues:	-
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Use Case ID:	UC010		
Use Case Name:	Create an event		
Created By:	Jeremy	Last Updated By:	Jeremy
Date Created:	24-01-22	Date Last Updated:	24-01-22

Actor:	Individual User
Description:	The user creates an event through the calendar page
Preconditions:	1. The user is at the calendar page
Postconditions:	1. Event is saved to the database attached to the current user 2. Checkbox of event added is not ticked
Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"> The system uses the included use case "View schedules in the calendar" to arrive at the calendar page. The user selects the month and date of activity from the calendar interface. The user selects the "Add Event" button on the calendar page The system displays a pop-up for input The system requests the input of the following information from the user: <ol style="list-style-type: none"> The name of the event The location of the event The time of the event in 24 hr format The date of the event in "DDMMYYYY" format The user inputs the necessary information and clicks the "Save Event" button The system validates the input If the input is valid, the system saves the activity to the device and database server is updated The user is returned to the calendar page
Alternative Flows:	<p>AF-S6: If the user taps outside of the pop-up</p> <ol style="list-style-type: none"> The system will discard the event The system returns to step 4 <p>AF-S8: If the input is Invalid:</p> <ol style="list-style-type: none"> System will display the appropriate error message and prompt the user for the specific input values that is required to fill in properly

	2. The system returns to step 5
Exceptions:	-
Includes:	8: View schedules in the calendar
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	UC011		
Use Case Name:	Delete an event		
Created By:	Jeremy	Last Updated By:	Jeremy
Date Created:	24-01-22	Date Last Updated:	24-01-22

Actor:	Individual User
Description:	The user records down the food consumed and calories intake
Preconditions:	1. There is at least one event to delete
Postconditions:	1. Event is removed from local device and database document
Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"> 1. The system uses the included use case “Viewing schedules in the calendar to display the current schedule” 2. The user selects a date from the calendar interface 3. The system displays all events for the date selected 4. The user selects the “Delete Event” button 5. The event will be removed from the database and the phone 6. The system will display the message “Event deleted successfully”
Alternative Flows:	-
Exceptions:	-
Includes:	8: Viewing schedules in the calendar
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	UC012
Use Case Name:	Search for Fitness Facilities and Eateries nearby using the GPS within 2km

Created By:	Jeremy	Last Updated By:	Jeremy
Date Created:	24-01-22	Date Last Updated:	24-01-22

Actor:	Individual User
Description:	The user is shown fitness facilities, restaurant and eateries within 2km radius
Preconditions:	<ol style="list-style-type: none"> 1. GPS must be on with permission access granted to the system 2. The user is logged in
Postconditions:	<ol style="list-style-type: none"> 1. Map displays the facilities within 2km from the user's location
Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"> 1. The user selects the "Centre Location" button 2. Map zooms in on the user's location 3. Markers representing facilities within 2km from the user's GPS location are shown
Alternative Flows:	-
Exceptions:	-
Includes:	-
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	UC013		
Use Case Name:	View facility information (Rating, description, etc)		
Created By:	Jeremy	Last Updated By:	Jeremy
Date Created:	24-01-22	Date Last Updated:	24-01-22

Actor:	Individual User
Description:	The user views facility information
Preconditions:	<ol style="list-style-type: none"> 1. The user is logged in
Postconditions:	<ol style="list-style-type: none"> 1. System displays facility information
Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"> 1. The system uses the included use case "Search for fitness facilities and eateries nearby using the GPS with 2km" to hone the map to the user location and to display markers.

	<ol style="list-style-type: none"> The user clicks on a red or purple map marker The system displays a page with detailed information of the facility and reviews of the facility:
Alternative Flows:	-
Exceptions:	-
Includes:	12: Search for Fitness Facilities and Eateries nearby using the GPS within 2km
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	UC014		
Use Case Name:	View the healthy dishes offered by a particular eatery		
Created By:	Jeremy	Last Updated By:	Jeremy
Date Created:	24-01-22	Date Last Updated:	24-01-22

Actor:	Individual User
Description:	The user can read detailed information of healthy food options provided by eatery
Preconditions:	<ol style="list-style-type: none"> The user is logged in Map marker clicked by the user clicked belongs to an eatery
Postconditions:	-
Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"> The system uses the included use case “View facility information” to display the information of the eatery The user clicks on the “Click to view healthy food” button The system will display the user a scrollable list of the food items that are available with its required information
Alternative Flows:	-
Exceptions:	-
Includes:	13: View facility information (Rating, description, etc)
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	UC015		
Use Case Name:	Add event from explore page to a calendar event		
Created By:	Jeremy	Last Updated By:	Jeremy
Date Created:	24-01-22	Date Last Updated:	24-01-22

Actor:	Individual User
Description:	The user records down the food consumed and calories intake
Preconditions:	1. The user is logged in
Postconditions:	1. Food Journal is saved to the device and backed up to the database server 2. Checkbox is not ticked
Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"> 1. The system uses the included use case “View the healthy dishes by a particular eatery” to display healthy food options provided by eatery 2. The user selects the “Click to add to event” button on the calendar page 3. An add event pop-up appears for the user to input planned event details 4. The system requests the input of the following information from the user: <ol style="list-style-type: none"> a. The time of the event in 24 hr format using a time picker b. The date of the event in “DDMMYYYY” format 5. The user inputs the necessary information 6. If the user selects “Save Event”, the system saves the activity to the device and database server is updated 7. The user is returned to the view of healthy dishes page
Alternative Flows:	<p>AF-S5: If the user taps outside the add event pop-up or uses the phone back button.</p> <ol style="list-style-type: none"> 1. The system discards the Food Journal entry 2. The system directs the user back to the page displaying the healthy food offered by a particular eatery in step 1
Exceptions:	-
Includes:	14: View the healthy dishes offered by a particular eatery
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	UC016		
Use Case Name:	Display directions to fitness facilities and eateries		
Created By:	Jeremy	Last Updated By:	
Date Created:	01-04-22	Date Last Updated:	

Actor:	Individual User		
Description:	The user gets directions to the desired fitness centre or hawker centre from its current location		
Preconditions:	1. GPS is turned on		
Postconditions:	1. Android system is at “Google Map” with directions outlined to get the user from current location to the desired facility		
Priority:	Medium		
Frequency of Use:	Medium		
Flow of Events:	<ol style="list-style-type: none"> 1) The system uses the included use case “Search for fitness facilities and eateries nearby using the GPS with 2km” to hone the map to the user location and to display markers. 2) The user selects the map marker of the desired location 3) The user selects the back button to return to the map 4) The user clicks the directions logo found at the bottom right corner of the map 5) The user is directed to Google Maps with directions from its current location 		
Alternative Flows:	-		
Exceptions:	-		
Includes:	12: Search for Fitness Facilities and Eateries nearby using the GPS within 2km		
Special Requirements:	-		
Assumptions:	-		
Notes and Issues:	-		

Use Case ID:	UC017		
Use Case Name:	Getting Professional Health and Fitness Advice		
Created By:	Ming Xuan	Last Updated By:	
Date Created:	24-01-22	Date Last Updated:	24-01-22

Actor:	Individual User
Description:	The user gets professional health and fitness advices
Preconditions:	1. The user is logged in
Postconditions:	1. The system displays the information which consists of the professional advice
Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"> 1. The user selects the icon with a vertical 3 dot on the right of the top bar 2. The system displays the dropdown box, with the option to “help” 3. The user clicks on the option “Help” 4. The user is directed to the “Get Professional Help” page 5. The system displays a list of frequently asked questions (FAQ) and answers 6. The user will scroll down the FAQ list to discover more FAQs 7. The system displays contact information of professionals at the bottom 8. The user will scroll down the contact information list to discover more contact information
Alternative Flows:	-
Exceptions:	-
Includes:	-
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	UC018		
Use Case Name:	Edit profile photo in profile page		
Created By:	Jeremy	Last Updated By:	
Date Created:	01-04-22	Date Last Updated:	

Actor:	Individual User
Description:	The user wishes to edit their profile picture
Preconditions:	1. The user is logged in
Postconditions:	1. The user profile picture is updated
Priority:	Medium
Frequency of Use:	Low

Flow of Events:	<ol style="list-style-type: none"> 1. The user clicks on the profile page via bottom navigation bar 2. The system redirects the user to the profile page 3. The user clicks on profile photo 4. The system shows an image selection picker where the user may choose from their recent photos or search for their photo in another app 5. The user selects a photo 6. The system will prompt a confirmation message 7. If the user selects “Yes” 8. The system prompts a toast message “Uploading” 9. The system uploads the updated profile picture to the Firebase Database 10. The user is directed back to the profile page with the updated profile picture
Alternative Flows:	AF-S7: If the user selects “No” or the user taps outside of the confirmation box: <ol style="list-style-type: none"> 1. The profile picture is not updated 2. The user is directed back to the profile page at step 1
Exceptions:	
Includes:	-
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	UC019		
Use Case Name:	Edit password in profile page		
Created By:	Jeremy	Last Updated By:	
Date Created:	01-04-22	Date Last Updated:	

Actor:	Individual Users
Description:	The user wishes to change their password
Preconditions:	<ol style="list-style-type: none"> 1. The user is logged in
Postconditions:	<ol style="list-style-type: none"> 1. The system displays the message “password changed”
Priority:	Medium
Frequency of Use:	Low
Flow of Events:	<ol style="list-style-type: none"> 1. The user clicks on the profile page via bottom navigation bar 2. The system redirects the user to the profile page

	<ol style="list-style-type: none"> 3. The user clicks on the edit button next to the password tab 4. The system will display a page requiring the user to input the following <ol style="list-style-type: none"> a. Old password b. New password c. Confirm password 5. The user selects the “Save” button 6. The system will validate the inputs provided 7. The system will update the password into the server 8. The system will prompt a toast message “Password Changed” 9. The user selects the “Back” button 10. The user is directed back to the profile page
Alternative Flows:	<p>AF-S4: If the user selects “Back” instead of “save”</p> <ol style="list-style-type: none"> 1. The system discards the changes 2. The system directs the user back to the profile page in step 1 <p>AF-S5: If the user input is invalid, the system will prompt a appropriate error message at the input textbox</p> <ol style="list-style-type: none"> 1. The user is returned to step 4
Exceptions:	-
Includes:	-
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	UC020		
Use Case Name:	Edit description in profile page		
Created By:	Hui Jing	Last Updated By:	Hui Jing
Date Created:	16-04-2022	Date Last Updated:	16-04-2022

Actor:	Individual Users
Description:	The user wishes to edit their description
Preconditions:	1. The user is logged in
Postconditions:	1. The system displays the message “description updated”
Priority:	Medium
Frequency of Use:	Low
Flow of Events:	1. The user clicks on the profile page via bottom navigation bar

	<ol style="list-style-type: none"> The system redirects the user to the profile page The user clicks on the edit button next to the description tab The system will display a page requiring the user to input the new description The user selects the “Save” button The system will update the description into the server The system will prompt a toast message “Description Updated” The user selects the “Back” button The user is directed back to the profile page
Alternative Flows:	AF-S4: If the user selects “Back” instead of “save” <ol style="list-style-type: none"> The system discards the changes The system directs the user back to the profile page in step 1
Exceptions:	-
Includes:	-
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	UC021		
Use Case Name:	Mark an event as completed		
Created By:	Teresa	Last Updated By:	
Date Created:	16-04-2022	Date Last Updated:	16-04-2022

Actor:	Individual User
Description:	The user ticks the checkbox for the event that user has completed
Preconditions:	<ol style="list-style-type: none"> The checkbox is not ticked The even has never been completed
Postconditions:	<ol style="list-style-type: none"> The system will generate a status associated with the event for the user to be seen in friends’ social page and user status history
Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"> The system uses the included use case “View schedules in the calendar” to arrive at the calendar page. The user ticks the checkbox for a particular event

	<ol style="list-style-type: none"> 3. System validates that the event ticked is within 1 hour of the time set 4. If the time requirement is met, the checkbox will be ticked
Alternative Flows:	<p>AF-S4: If the time requirement is not met because the event tick is more than an hour into the future</p> <ol style="list-style-type: none"> 1. The system displays an error message as a toast message 2. Return to step 1
Exceptions:	-
Includes:	8: View schedules in the calendar
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-