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# Use Case Description

for

# MediCare

Version 1.0 approved

Prepared by Team Beta

Team Beta

## Revision History

Name	Date	Reason For Changes	Version

Use Case ID:	UC001		
Use Case Name:	User sign up		
Created By:	Nan Wentai	Last Updated By:	Nan Wentai
Date Created:	27/08/2021	Date Last Updated:	

Actor:	User, Database
Description:	Users are able to create a new account.
Preconditions:	1. Internet connection is established.
Postconditions:	Account information is stored in the database.
Priority:	Medium. It allows the user to sign up for a new account.
Frequency of Use:	Low.
Flow of Events:	<ol style="list-style-type: none"> <li>1. The user clicks 'create' on the launch page.</li> <li>2. The user keys in the user name.</li> <li>3. The user keys in the email they want to use for account registration.</li> <li>4. The user sets the password for their new account and re-enters their password to confirm it.</li> <li>5. A new account is created after clicking the "Register" button.</li> </ol>
Alternative Flows:	1. User does not sign up
Exceptions:	AF-1 Invalid password <ol style="list-style-type: none"> <li>1. If the password has less than 6 characters, the user will be prompted to create a longer password.</li> </ol> AF-2 - Re-entered password does not match first password entry <ol style="list-style-type: none"> <li>2. If the two entered passwords do not match, the user will be prompted to double-check their password.</li> </ol>
Includes:	-
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	UC002		
Use Case Name:	User login		
Created By:	Nan Wentai	Last Updated By:	Nan Wentai
Date Created:	27/08/2021	Date Last Updated:	

Actor:	User, Database
Description:	Users are able to login to their account.
Preconditions:	1. Internet connection is established.
Postconditions:	The user is successfully logged into their account and able to access all functionalities of the app.
Priority:	High. The user can use the app only after they login in to their account.

Frequency of Use:	High.
Flow of Events:	<ol style="list-style-type: none"> <li>1. The user enters their email used for registration.</li> <li>2. The user enters the password.</li> <li>3. The user logs in to their own account after clicking the “Login” button.</li> </ol>
Alternative Flows:	<ol style="list-style-type: none"> <li>1. User does not login after coming to the login page</li> </ol>
Exceptions:	<p>AF-1 Invalid email</p> <ol style="list-style-type: none"> <li>1. If the email entered is invalid, ‘Invailel email’ will be displayed. The user will be required to key in the correct email.</li> </ol> <p>AF-2 Invalid password</p> <ol style="list-style-type: none"> <li>2. If an incorrect password is entered, “Wrong password!” will be displayed and the user will be required to key in the correct password.</li> </ol>
Includes:	-
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	UC003		
Use Case Name:	Change password		
Created By:	Nan Wentai	Last Updated By:	Nan Wentai
Date Created:	27/08/2021	Date Last Updated:	

Actor:	User, Database
Description:	Users are able to reset the password for their account.
Preconditions:	<ol style="list-style-type: none"> <li>1. Internet connection is established.</li> </ol>
Postconditions:	User information stored in the database is updated.
Priority:	High. It allows the user to sign up for a new account.
Frequency of Use:	Low.
Flow of Events:	<ol style="list-style-type: none"> <li>1. The user clicks on ‘Forgot your password?’ on the login page or ‘Reset password’ on the user profile page.</li> <li>2. The user keys in the email address they used for account registration</li> <li>3. The user clicks the ‘Send’ button.</li> <li>4. A verification email with a verification link will be sent to the respective email.</li> <li>5. The user clicks the verification link they have received.</li> <li>6. A password reset dialogue will be prompted for the user to set a new password.</li> <li>7. Password is reset successfully.</li> </ol>
Alternative Flows:	-
Exceptions:	AF-1 Invalid Email

	<ol style="list-style-type: none"> <li>1. If the email entered is invalid, 'Invalid email' will be displayed. The user will be required to key in the correct email.</li> </ol> <p>AF-2 Invalid password</p> <ol style="list-style-type: none"> <li>2. If the password has less than 6 characters, the user will be prompted to create a longer password.</li> </ol>
Includes:	-
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	UC004		
Use Case Name:	Search for Medicine		
Created By:	Gao Sitian	Last Updated By:	
Date Created:	20/8/2021	Date Last Updated:	

Actor:	User, Government Data API
Description:	Users search for medicine by medicine name, dosage form, ingredients or manufacturer.
Preconditions:	An internet connection is established
Postconditions:	A list of medicines is returned in order of relevance based on search input.
Priority:	High. This function grants the user knowledge to make decisions on self medication.
Frequency of Use:	Medium. Users who wish to self medicate would rely on this function to make informed decisions. Users who wish to look up more information about their prescribed medication would also rely on this.
Flow of Events:	<ol style="list-style-type: none"> <li>1. User clicks on the medicine search bar and types in keywords associated with the target medicine.</li> <li>2. A list of medicine in order of relevance is returned based on the search requirements.</li> </ol>
Alternative Flows:	-
Exceptions:	<p>No results are found</p> <ol style="list-style-type: none"> <li>1. The words "No result found" will be displayed in place of the search results.</li> </ol>
Includes:	-
Special Requirements:	-
Assumptions:	The API contains the relevant medicine the user is looking for.
Notes and Issues:	-

Use Case ID:	UC005		
Use Case Name:	Select Medicine		
Created By:	Gao Sitian	Last Updated By:	
Date Created:	20/8/2021	Date Last Updated:	

Actor:	User
Description:	User selects medicine from search results
Preconditions:	<ol style="list-style-type: none"> <li>1. App must be downloaded</li> <li>2. An internet connection is established</li> <li>3. UC001 must be performed</li> </ol>
Postconditions:	<ol style="list-style-type: none"> <li>1. A profile of the medicine selected will open up. The medicine's name, dosage form, ingredients and manufacturer will be listed.</li> </ol>
Priority:	High. This function shows the user more information about each medicine.
Frequency of Use:	High. Users who search for medicine will almost always select a medicine entry to learn more about it.
Flow of Events:	<ol style="list-style-type: none"> <li>1. The user selects a medicine from the list of search results.</li> <li>2. The details of the medicine are displayed.</li> <li>3. The user presses a back button to go back to the search results.</li> </ol>
Alternative Flows:	-
Exceptions:	Incomplete information for any field of the medicine's details <ol style="list-style-type: none"> <li>1. "No information found" will be displayed in the relevant text field.</li> </ol>
Includes:	-
Special Requirements:	-
Assumptions:	The API contains all the relevant information for each medicine.
Notes and Issues:	-

Use Case ID:	UC006		
Use Case Name:	Search for Clinic		
Created By:	Wang Yiying	Last Updated By:	
Date Created:	25/8/2021	Date Last Updated:	

Actor:	User, Government Data API, Google Maps' API
Description:	User searches for clinics by clinic name, address or postal code.
Preconditions:	An internet connection must be established.
Postconditions:	A list of clinics is returned in relevance order based on search input.
Priority:	High.
Frequency of Use:	High.
Flow of Events:	<ol style="list-style-type: none"> <li>1. User clicks on the clinic search bar and enters keywords associated with the target clinic.</li> </ol>

	2. If results are found, the results will be displayed according to string-matching relevance.
Alternative Flows:	-
Exceptions:	EX-1: Invalid Search 1. No results will be displayed on the result page.
Includes:	UC008 View Clinic List
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	UC007		
Use Case Name:	View Nearby Clinics		
Created By:	Wang Yiying	Last Updated By:	
Date Created:	25/8/2021	Date Last Updated:	

Actor:	User, Government Data API, Google Maps' API
Description:	User can view nearby clinics with respect to the user's current location.
Preconditions:	An internet connection must be established.
Postconditions:	User is able to zoom in to the current location and see clinics nearby.
Priority:	Medium.
Frequency of Use:	Medium.
Flow of Events:	<ol style="list-style-type: none"> <li>1. User taps on the "Nearby Clinics" button on the screen.</li> <li>2. The app will present a prompt in order to request permission to access the user's current location.</li> <li>3. If the user grants the permission, the location provided by the user's mobile phone will be set as the user's current location.</li> <li>4. If the user does not grant the permission, the location will be set to default location.</li> <li>5. The map zooms to the user's current location.</li> </ol>
Alternative Flows:	AF-1: User taps on the map <ol style="list-style-type: none"> <li>1. User is able to zoom in/out of the map and pan around it.</li> <li>2. User will be directed to use case UC006 View Map.</li> </ol>
Exceptions:	
Includes:	UC009 View Map
Special Requirements:	-
Assumptions:	The app is able to successfully detect the user's location.
Notes and Issues:	-

Use Case ID:	UC008		
Use Case Name:	View Clinic List		
Created By:	Wang Yiyang	Last Updated By:	Wan Yaxin
Date Created:	25/08/2021	Date Last Updated:	08/09/2021

Actor:	User
Description:	The user can view a list of relevant clinics based on the search input.
Preconditions:	<ol style="list-style-type: none"> <li>1. An internet connection must be established.</li> <li>2. Invocation as an included use case by UC003.</li> </ol>
Postconditions:	A list of selected clinics will be displayed along with their name, rating, address and distance.
Priority:	High. This function displays summarized information of all relevant clinics which helps the user to compare and make a choice.
Frequency of Use:	High.
Flow of Events:	<ol style="list-style-type: none"> <li>1. User enters text in the searching bar.</li> <li>2. The results will be sorted according to relevance.</li> <li>3. User will be directed to use case UC007 when tapping on a clinic fragment.</li> </ol>
Alternative Flows:	
Exceptions:	-
Includes:	-
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	UC009		
Use Case Name:	View Map		
Created By:	Wang Yiyang	Last Updated By:	
Date Created:	25/8/2021	Date Last Updated:	

Actor:	User, Google Maps' API
Description:	Clinics' locations are denoted on the map with red points.
Preconditions:	<ol style="list-style-type: none"> <li>1. An internet connection must be established.</li> </ol>
Postconditions:	
Priority:	High. This function displays the geographical information of selected clinics.
Frequency of Use:	High.
Flow of Events:	<ol style="list-style-type: none"> <li>1. The user is able to pan around and zoom in or out of the map to view the location of a clinic.</li> <li>2. The user will be able to view information of a clinic after tapping on a red point.</li> </ol>
Alternative Flows:	-
Exceptions:	-

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

Use Case ID:	UC010		
Use Case Name:	View Clinic's Information		
Created By:	Wang Yiying	Last Updated By:	Wang Yiying
Date Created:	25/8/2021	Date Last Updated:	02/11/2021

Actor:	User, Google Places API
Description:	The user is able to see detailed information about a clinic.
Preconditions:	<ol style="list-style-type: none"> <li>1. An internet connection must be established.</li> <li>2. Invocation as an extending use case by UC005 and UC006</li> </ol>
Postconditions:	More detailed information is displayed to user, which helps user to have a better understanding about a selected clinic.
Priority:	Very High. This function allows the user to know all important information of a selected clinic, including operating hours, address, contact numbers etc.
Frequency of Use:	High.
Flow of Events:	<ol style="list-style-type: none"> <li>1. The name, address, contact number, operating hours, official website (if any) and average rating of a selected clinic will be displayed to the user.</li> </ol>
Alternative Flows:	AF-1 User leaves a rating <ol style="list-style-type: none"> <li>1. The user taps on the 'Submit your rating' button, they will be directed to use case UC011 to submit a rating.</li> </ol> AF-2 Show Clinic on map <ol style="list-style-type: none"> <li>1. The user clicks on the 'show on map' button and will be directed to use case UC 009 View Map</li> </ol>
Exceptions:	-
Includes:	-
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	UC011		
Use Case Name:	Submit Rating		
Created By:	Wang Yiying	Last Updated By:	
Date Created:	25/8/2021	Date Last Updated:	

Actor:	User, Database
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Description:	The user is able to submit ratings on clinics.
Preconditions:	1. An internet connection must be established. 2. The user is logged in.
Postconditions:	The app stores the user's ratings to the database.
Priority:	Medium.
Frequency of Use:	Medium.
Flow of Events:	1. User taps on the 'Submit a Rating' button on the page displayed in use case UC010. 2. User rates the clinic out of five stars to indicate his or her satisfaction.
Alternative Flows:	
Exceptions:	-
Includes:	UC010
Special Requirements:	-
Assumptions:	
Notes and Issues:	-

Use Case ID:	UC012		
Use Case Name:	Create medicine reminder		
Created By:	Ameeshi Gupta	Last Updated By:	Wan Yaxin
Date Created:	29/08/2021	Date Last Updated:	1/11/2021

Actor:	User
Description:	User can set reminders for what time to take medicine
Preconditions:	-
Postconditions:	Time clock to set the reminder(s) open up to set up reminders for the same medicine
Priority:	High. Reminds users about the specific time of taking medicine to ensure the dose is not missed.
Frequency of Use:	Medium High
Flow of Events:	1. User enters the name of pills 2. User then sets the time for taking the medicine and specifies which days to take the medicine 3. User sets the dosage quantity and dosage form 4. User click "finish" button to finish setting the reminder
Alternative Flows:	AF-1: User goes to previous page (main page of medicine reminder) 1. Main page will be displayed, the current medicine reminder will not be saved unless user click finish button
Exceptions:	-
Includes:	-
Special Requirements:	-

Assumptions:	-
Notes and Issues:	-

Use Case ID:	UC0013		
Use Case Name:	Delete medicine reminder		
Created By:	Wan Yaxin	Last Updated By:	Wan Yaxin
Date Created:	18/10/2021	Date Last Updated:	01/11/2021

Actor:	User
Description:	User can delete medicine reminder
Preconditions:	1. There must at least exist one medicine reminder to delete 2. May invoked by UC0014
Postconditions:	Medicine reminder is deleted
Priority:	High. User must be able to delete medicine reminder
Frequency of Use:	Medium
Flow of Events:	1. User choose the medicine reminder that he/she wants to delete 2. User clicks on the “Delete” icon on medicine reminder
Alternative Flows:	AF-1: User click the calendar button to expand the calendar view 1. User will be directed to UC0014 to expand the calendar AF-2: User click the add button to add new medicine reminder 1. User will be directed to UC0012 to create new medicine reminder
Exceptions:	-
Includes:	-
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	UC0014		
Use Case Name:	Check medicine reminder schedule		
Created By:	Wan Yaxin	Last Updated By:	Wan Yaxin
Date Created:	18/10/2021	Date Last Updated:	01/11/2021

Actor:	User
Description:	User can view reminder list based on which date he/she choose
Preconditions:	1. May be invoked by UC0013
Postconditions:	Correct list of medicine reminders are shown based on the day that user chooses
Priority:	Medium
Frequency of Use:	Medium

Flow of Events:	<ol style="list-style-type: none"> <li>1. User choose the expand calendar view</li> <li>2. User clicks on the specific day on the calendar</li> <li>3. List of medicine reminders are shown based on the day that user chooses</li> </ol>
Alternative Flows:	AF-1: User close the calendar view <ol style="list-style-type: none"> <li>1. Homepage of the medicine reminder will be displayed.</li> <li>2. List of medicine reminders are shown based on the day that user chooses.</li> </ol>
Exceptions:	-
Includes:	-
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	UC0015		
Use Case Name:	User Profile		
Created By:	NAN WENTAI	Last Updated By:	NAN WENTAI
Date Created:	18/10/2021	Date Last Updated:	04/11/2021

Actor:	User
Description:	The user can view the profile information, reset password or log out on this page.
Preconditions:	User logs in to the account.
Postconditions:	-
Priority:	Low
Frequency of Use:	High. The user needs to enter this page to log out from their account.
Flow of Events:	<ol style="list-style-type: none"> <li>1. User clicks the profile button on the top right corner of the main page.</li> <li>2. The user views their profile information.</li> </ol>
Alternative Flows:	AF-1: User clicks the “Reset Password” button and goes to the reset password interface. AF-2: User clicks the “Log out” button and logout from their account.
Exceptions:	-
Includes:	-
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-

Use Case ID:	UC0016		
Use Case Name:	Main Menu		
Created By:	Gao Sitian	Last Updated By:	
Date Created:	6/11/2021	Date Last Updated:	

Actor:	User
Description:	The user can access main functionalities of the app, namely, search for clinics, search for medicine, manage medicine reminders and user profile directly from the main menu when they first open the app.
Preconditions:	User has logged into the app.
Postconditions:	Four buttons will be shown leading to the four main app functions, which the user can click on.
Priority:	High.
Frequency of Use:	High. The user will use the main menu to navigate between the different main functionalities of the app.
Flow of Events:	<ol style="list-style-type: none"> <li>1. User logs in successfully to their account.</li> <li>2. User will be directed to the main menu.</li> </ol>
Alternative Flows:	AF-1: User clicks back from the main page of any other main app function to go back to the main menu.
Exceptions:	-
Includes:	-
Special Requirements:	-
Assumptions:	-
Notes and Issues:	-