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# Use Case Document

for

# 6PMGym

**Version 2.0 approved**

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<b>Use Case ID:</b>	UC-1		
<b>Use Case Name:</b>	Create account		
<b>Created By:</b>	Guo Mukun	<b>Last Updated By:</b>	Christopher Lim
<b>Date Created:</b>	10/02/2019	<b>Date Last Updated:</b>	26/02/2019

<b>Actor:</b>	User (Initiating actor), Email Server (Participating actor)
<b>Description:</b>	The users who are using this application for the first time shall be required to create an account before accessing to any other functionalities.
<b>Preconditions:</b>	1. The user has downloaded the app.
<b>Postconditions:</b>	1. An account for the user is created and stored in the app database. 2. User is redirected to use case UC-5 Create Profile.
<b>Priority:</b>	High
<b>Frequency of Use:</b>	Low
<b>Flow of Events:</b>	<ol style="list-style-type: none"> <li>1. The user taps the "NEW USER" button.</li> <li>2. The user is directed to the the account registration page.</li> <li>3. The app prompts the user to enter his or her relevant information (email address, username, password).</li> <li>4. The user taps the "NEXT" button.</li> <li>5. The app sends a verification email to the email address that the user just entered.</li> <li>6. The user check his or her inbox to verify the email.</li> <li>7. The use case ends after the user verifies the email.</li> </ol>
<b>Alternative Flows:</b>	Nil
<b>Exceptions:</b>	<p>1.EX.1: If the user enters an invalid email format</p> <ol style="list-style-type: none"> <li>1. The user receives an error saying the email is invalid</li> <li>2. The app returns to Step 3.</li> </ol> <p>1.EX.2: If the user enters an insecure password</p> <ol style="list-style-type: none"> <li>1. The user receives a warning saying the password is not strong enough</li> <li>2. The app returns to Step 3.</li> </ol> <p>1.EX.3: If the user enters an existing email</p> <ol style="list-style-type: none"> <li>1. The user receives an error saying the email is already registered</li> <li>2. The app returns to Step 3.</li> </ol>
<b>Includes:</b>	UC-5 Create Profile
<b>Special Requirements:</b>	Nil
<b>Assumptions:</b>	<ul style="list-style-type: none"> <li>• The user has a stable internet connection.</li> </ul>
<b>Notes and Issues:</b>	Nil

<b>Use Case ID:</b>	UC-2		
<b>Use Case Name:</b>	Login		
<b>Created By:</b>	Guo Mukun	<b>Last Updated By:</b>	Christopher Lim
<b>Date Created:</b>	10/02/2019	<b>Date Last Updated:</b>	26/02/2019

<b>Actor:</b>	User (Initiating actor)
<b>Description:</b>	The users need to log in before they use any other functionalities. After a successful login, they shall be able to fully access the software.
<b>Preconditions:</b>	1. The user already has an account registered.
<b>Postconditions:</b>	1. The user will log into the app and gain access to its functionalities.
<b>Priority:</b>	High
<b>Frequency of Use:</b>	Medium
<b>Flow of Events:</b>	<ol style="list-style-type: none"> <li>1. The user taps the "LOGIN" button.</li> <li>2. The app prompts the user to enter his or her email address.</li> <li>3. The app prompts the user to enter his or her password for the account.</li> <li>4. The user taps the "GO!" button.</li> <li>5. The user is logged in and redirected to the main page of the app.</li> </ol>
<b>Alternative Flows:</b>	Nil
<b>Exceptions:</b>	2.EX.1: If the user enters wrong email/password: <ol style="list-style-type: none"> <li>1. The user receives an error message saying "Incorrect username or password".</li> <li>2. The app returns to Step 2.</li> </ol>
<b>Includes:</b>	Nil
<b>Special Requirements:</b>	Nil
<b>Assumptions:</b>	<ul style="list-style-type: none"> <li>• The user's login credentials is automatically saved after the initial login.</li> </ul>
<b>Notes and Issues:</b>	Nil

<b>Use Case ID:</b>	UC-3
<b>Use Case Name:</b>	Reset password

<b>Created By:</b>	Guo Mukun	<b>Last Updated By:</b>	Christopher Lim
<b>Date Created:</b>	10/02/2019	<b>Date Last Updated:</b>	26/02/2019

<b>Actor:</b>	User (Initiating actor), Email Server (Participating actor)
<b>Description:</b>	The users who have registered for the app but forgot or lost their password may use this functionality to reset the password.
<b>Preconditions:</b>	1. The user already has an account registered
<b>Postconditions:</b>	1. The user's password is reset. 2. The user is able to log into the app using the new password
<b>Priority:</b>	Medium
<b>Frequency of Use:</b>	Low
<b>Flow of Events:</b>	<ol style="list-style-type: none"> <li>1. The user taps the "LOGIN" button.</li> <li>2. The user is not able to login as they have forgotten their password.</li> <li>3. The user taps the "FORGET YOUR PASSWORD?" button.</li> <li>4. The user is redirected to the reset password page.</li> <li>5. The app prompts the user to enter their email address.</li> <li>6. The user taps the "Confirm" button.</li> <li>7. An email will be sent to the user's email address.</li> <li>8. The user checks their inbox and taps on the link embedded in the email to reset their password.</li> <li>9. The user is asked to enter their new password.</li> <li>10. The user's password is reset.</li> </ol>
<b>Alternative Flows:</b>	Nil
<b>Exceptions:</b>	<p>3.EX.1: If the user enters an email address that does not belong to him or her.</p> <ol style="list-style-type: none"> <li>1. The user taps the "re-enter email address" button.</li> <li>2. The app returns to Step 4.</li> </ol> <p>3.EX.2: If the user enters a email address that has not been used to register for the app.</p> <ol style="list-style-type: none"> <li>1. The app displays a warning saying the email address is not found.</li> <li>2. The app returns to Step 4.</li> </ol>
<b>Includes:</b>	Nil
<b>Special Requirements:</b>	Nil
<b>Assumptions:</b>	<ol style="list-style-type: none"> <li>1. The user has an account but fails to login.</li> <li>2. The user has access to the email account which is used to register for the app.</li> </ol>

<b>Notes and Issues:</b>	Nil
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<b>Use Case ID:</b>	UC-4		
<b>Use Case Name:</b>	<b>Search for Gyms</b>		
<b>Created By:</b>	Chen Feiyu	<b>Last Updated By:</b>	Christopher Lim
<b>Date Created:</b>	09/02/2019	<b>Date Last Updated:</b>	26/02/2019

<b>Actor:</b>	User (Initiating actor), Google Maps API (Participating actor), Gym Dataset (Participating actor)
<b>Description:</b>	The user uses the gym map to search for gyms by name or postcode.
<b>Preconditions:</b>	1. The user log in to the app via the Login use case UC-2.
<b>Postconditions:</b>	1. Search result is displayed. OR 2. The user receives an explanation on why the result cannot be displayed.
<b>Priority:</b>	High
<b>Frequency of Use:</b>	Medium
<b>Flow of Events:</b>	<ol style="list-style-type: none"> <li>1. The use case starts when the user taps on the 'gym map'.</li> <li>2. The app shows the distance and the usage percentage of the few nearest gyms around the user base on the user's current location.</li> <li>3. The user taps on the search tab to search for gyms.</li> <li>4. The user enters the location or postcode to search.</li> <li>5. The app compares the search terms with the database and retrieves the relevant results.</li> <li>6. The app displays the search results.</li> </ol>
<b>Alternative Flows:</b>	Nil
<b>Exceptions:</b>	4.EX.1: The search term does not match any information in database <ol style="list-style-type: none"> <li>1. The app displays the message "Search did not return any results. Please try a different search term."</li> </ol>
<b>Includes:</b>	Nil
<b>Special Requirements:</b>	Nil
<b>Assumptions:</b>	<ul style="list-style-type: none"> <li>• The user has a stable internet connection</li> <li>• The user has their GPS turned on</li> </ul>
<b>Notes and Issues:</b>	Nil

<b>Use Case ID:</b>	UC-5		
<b>Use Case Name:</b>	Create profile		
<b>Created By:</b>	Chen Feiyu	<b>Last Updated By:</b>	Christopher Lim
<b>Date Created:</b>	09/02/2019	<b>Date Last Updated:</b>	26/02/2019

<b>Actor:</b>	User (Initiating Actor)
<b>Description:</b>	The user creates their personal profile in the app after he or she logs in for the first time.
<b>Preconditions:</b>	1. Invocation as an included use case by use case UC-1 Create Account.
<b>Postconditions:</b>	1. The profile of the user is created and added to the database of the app. 2. The user is able to enter the main page.
<b>Priority:</b>	Medium
<b>Frequency of Use:</b>	Low
<b>Flow of Events:</b>	<ol style="list-style-type: none"> <li>1. The app sends a welcome message which prompts the user to create his or her personal profile after an account is successfully created.</li> <li>2. The user uploads his or her profile image.</li> <li>3. The user chooses his or her gender from male, female or others.</li> <li>4. The user chooses his or her date of birth in the calendar.</li> <li>5. The user chooses his or her level of experience from the given scale.</li> <li>6. If the user selects the question mark, the Level Selection Guide sub-flow is performed.</li> <li>7. The user chooses his or her interest from the given list.</li> <li>8. The user chooses his or her strength from the given list.</li> <li>9. If the user taps the NEXT tab, then the use case ends and the app proceeds to the main page.</li> </ol>
<b>Alternative Flows:</b>	5.AC.1: Level Selection Guide <ol style="list-style-type: none"> <li>1. The app provides a level guide for the user.</li> <li>2. The user taps again to go back to step 5.</li> </ol>
<b>Exceptions:</b>	5.EX.1: If the user chooses a date after the current date <ol style="list-style-type: none"> <li>1. The app displays an error message: "Please choose a</li> </ol>

	valid date of birth”
<b>Includes:</b>	UC-1
<b>Special Requirements:</b>	Nil
<b>Assumptions:</b>	Nil
<b>Notes and Issues:</b>	Nil

<b>Use Case ID:</b>	UC-6		
<b>Use Case Name:</b>	Update profile		
<b>Created By:</b>	Chen Feiyu	<b>Last Updated By:</b>	Christopher Lim
<b>Date Created:</b>	10/02/2019	<b>Date Last Updated:</b>	26/02/2019

<b>Actor:</b>	User (Initiating Actor)
<b>Description:</b>	The user updates his or her profile with new and updated information.
<b>Preconditions:</b>	1. The user has created an account via UC-1 Create Account and is logged in via UC-2 Login and has already created his or her profile via UC-3 Create Profile.
<b>Postconditions:</b>	1. The updated profile details will be saved to the database.
<b>Priority:</b>	Medium
<b>Frequency of Use:</b>	Low
<b>Flow of Events:</b>	<ol style="list-style-type: none"> <li>1. The user taps the “personal” tab to update his profile.</li> <li>2. The user updates his or her profile picture by choosing another photo to upload.</li> <li>3. The user updates his or her username by re-entering his or her username.</li> <li>4. The user updates his or her gender by choosing his or her gender again.</li> <li>5. The user updates his or her date of birth by choosing his or her date of birth from the calendar again.</li> <li>6. The user updates his or her level of experience by choosing a level of experience again.</li> <li>7. The user updates his or her interest(s) by checking the choices again.</li> <li>8. The user updates his or her strength(s) by checking the choices again.</li> </ol>

	9. The user taps on the “save” button to save the updates and this ends the use case.
<b>Alternative Flows:</b>	Nil
<b>Exceptions:</b>	6.EX.1: If the user chooses a date after the current date 1. The app displays an error message: “Please choose a valid date of birth”
<b>Includes:</b>	Nil
<b>Special Requirements:</b>	Nil
<b>Assumptions:</b>	Nil
<b>Notes and Issues:</b>	Nil

<b>Use Case ID:</b>	UC-7		
<b>Use Case Name:</b>	Post session		
<b>Created By:</b>	Christopher Lim	<b>Last Updated By:</b>	Christopher Lim
<b>Date Created:</b>	08/02/2019	<b>Date Last Updated:</b>	26/02/2019

<b>Actor:</b>	User
<b>Description:</b>	The user posts an exercise session detailing his or her preferred time slot, gym location, gender preference, focus, level of experience.
<b>Preconditions:</b>	1. The user is logged into the app.
<b>Postconditions:</b>	1. A session is created with the flag set to “false”. 2. The session will appear in other users’ search results
<b>Priority:</b>	High
<b>Frequency of Use:</b>	High
<b>Flow of Events:</b>	<ol style="list-style-type: none"> <li>1. The user taps on “create session” button</li> <li>2. The user fills in his or her desired time slot to exercise</li> <li>3. The user fills in his or her desired gym location to exercise</li> <li>4. The user fills in his or her desired focus during exercise</li> <li>5. The user indicates his or her desired gender preference</li> </ol>



	6. The user fills in his or her level of experience in that selected focus 7. The user taps on “finish” button 8. A summary page will appear 9. The user taps on “confirm” button
<b>Alternative Flows:</b>	7.AC.1 The user taps on “cancel” button any time during the process 7.AC.2 The create session page closes and no changes will take place
<b>Exceptions:</b>	7.EX.1: If the user already posted a session within the same time slot, the app will display an error and ask the user to specify another time slot
<b>Includes:</b>	Nil
<b>Special Requirements:</b>	Nil
<b>Assumptions:</b>	<ul style="list-style-type: none"> <li>The user already has an active account</li> </ul>
<b>Notes and Issues:</b>	Nil

<b>Use Case ID:</b>	UC-8		
<b>Use Case Name:</b>	Browse session		
<b>Created By:</b>	Christopher Lim	<b>Last Updated By:</b>	Christopher Lim
<b>Date Created:</b>	08/02/2019	<b>Date Last Updated:</b>	26/02/2019

<b>Actor:</b>	User
<b>Description:</b>	The user inputs certain search criteria and filters and the application will display a list of relevant sessions that best suit the user's preferences.
<b>Preconditions:</b>	1. The user is logged into the app.
<b>Postconditions:</b>	1. A list of sessions matching the user's search criteria will be displayed.
<b>Priority:</b>	High
<b>Frequency of Use:</b>	High
<b>Flow of Events:</b>	1. The user taps on “join session” button 2. The user inputs one or more search filters 3. Search filters include: time slot, location, focus, gender preference, and level of experience 4. A list of sessions matching the user's search criteria will be displayed

	<ol style="list-style-type: none"> <li>5. If the user is “experienced”, all matching sessions will be displayed</li> <li>6. If the user is “inexperienced”, only “experienced” sessions will be displayed</li> <li>7. Proceed to UC-9 Join Session</li> </ol>
<b>Alternative Flows:</b>	8.AC.1: If there are no sessions that the user is interested in joining, the user may create their own session and proceed to UC-7 Post Session
<b>Exceptions:</b>	8.EX.1: If the user does not input any search filter, the result list will be empty
<b>Includes:</b>	Nil
<b>Special Requirements:</b>	Nil
<b>Assumptions:</b>	<ul style="list-style-type: none"> <li>• The user already has an active account</li> </ul>
<b>Notes and Issues:</b>	Nil

<b>Use Case ID:</b>	UC-9		
<b>Use Case Name:</b>	Join session		
<b>Created By:</b>	Christopher Lim	<b>Last Updated By:</b>	Christopher Lim
<b>Date Created:</b>	08/02/2019	<b>Date Last Updated:</b>	26/02/2019

<b>Actor:</b>	User
<b>Description:</b>	After searching for a suitable session, the user then joins a session of choice and gets paired up with a partner.
<b>Preconditions:</b>	<ol style="list-style-type: none"> <li>1. The user has searched for sessions by specifying at least one search filter</li> </ol> <p>Entry condition: This use case extends the Browse Session use case (UC-8). It is initiated when the user chooses to join a session after browsing for sessions.</p>
<b>Postconditions:</b>	<ol style="list-style-type: none"> <li>1. The user will join a session created by another user from the results displayed by UC-8 Browse Session.</li> <li>2. That session’s flag will be set to “true” and will not show up in other users’ search results.</li> </ol>
<b>Priority:</b>	High
<b>Frequency of Use:</b>	High
<b>Flow of Events:</b>	<ol style="list-style-type: none"> <li>1. From the list of filtered search results, the user will select a session he wants to join</li> </ol>

	<ol style="list-style-type: none"> <li>2. A pop-up message will appear asking the user to confirm the selected session</li> <li>3. The user taps on “join this session”</li> <li>4. The user will now be part of that session and paired up with another user.</li> </ol>
<b>Alternative Flows:</b>	9.AC.1: The user taps on “cancel” button during the pop-up <ol style="list-style-type: none"> <li>1. The user is taken back to the search results page and will not be part of the previously selected session</li> </ol>
<b>Exceptions:</b>	9.EX.1: If the user already has a matched session within the same time slot, the app will display an error message and ask the user to select a different session
<b>Includes:</b>	Nil
<b>Special Requirements:</b>	Nil
<b>Assumptions:</b>	Nil
<b>Notes and Issues:</b>	Nil

<b>Use Case ID:</b>	UC-10		
<b>Use Case Name:</b>	Cancel session		
<b>Created By:</b>	Yang Jingyi	<b>Last Updated By:</b>	Christopher Lim
<b>Date Created:</b>	10/02/2019	<b>Date Last Updated:</b>	26/02/2019

<b>Actor:</b>	User (initiating actor)
<b>Description:</b>	The user cancels either a session he or she has created or a session he or she has previously joined
<b>Preconditions:</b>	<ol style="list-style-type: none"> <li>1. The user has previously created a session which is either matched or unmatched, OR</li> <li>2. The user has joined a session that another user has created</li> </ol>
<b>Postconditions:</b>	<ol style="list-style-type: none"> <li>1. The cancelled session will be removed from the app (if the session is an unmatched one), OR</li> <li>2. The flag of the cancelled session will be set to “false”, the user will be removed from this session, and the session will appear again in other users’ search results (if the session was previously matched)</li> </ol>
<b>Priority:</b>	High
<b>Frequency of Use:</b>	Low
<b>Flow of Events:</b>	<ol style="list-style-type: none"> <li>1. The user taps the home tab at the bottom to go to the home page</li> </ol>

	<ol style="list-style-type: none"> <li>2. The user taps the session he or she wants to cancel from the list of current sessions</li> <li>3. The user taps "CANCEL SESSION" button</li> <li>4. A pop-up message appears asking the user to confirm the selected session</li> <li>5. The user taps on the "confirm" button</li> <li>6. The app informs the user that the chosen session has been cancelled</li> </ol>
<b>Alternative Flows:</b>	<p>10.AC.1: The user taps on "cancel" button during the pop-up</p> <ol style="list-style-type: none"> <li>1. The user is taken back to step 2</li> </ol> <p>10.AC.2: The user cancels a session that is starting in less than an hour</p> <ol style="list-style-type: none"> <li>1. After the session is canceled, the user will not be able to post or join sessions for the next 24 hours as a penalty.</li> </ol>
<b>Exceptions:</b>	Nil
<b>Includes:</b>	Nil
<b>Special Requirements:</b>	Nil
<b>Assumptions:</b>	Nil
<b>Notes and Issues:</b>	Nil

<b>Use Case ID:</b>	UC-11		
<b>Use Case Name:</b>	Check-in		
<b>Created By:</b>	Yang Jingyi	<b>Last Updated By:</b>	Christopher Lim
<b>Date Created:</b>	10/02/2019	<b>Date Last Updated:</b>	26/02/2019

<b>Actor:</b>	User (initiating actor), Email Server (participating actor)
<b>Description:</b>	The user checks in for a session if he or she has arrived punctually at the gym location agreed upon
<b>Preconditions:</b>	<ol style="list-style-type: none"> <li>1. The user has a matched session</li> </ol>
<b>Postconditions:</b>	<ol style="list-style-type: none"> <li>1. The session will be marked as successful by the app</li> </ol>
<b>Priority:</b>	Medium
<b>Frequency of Use:</b>	High
<b>Flow of Events:</b>	<ol style="list-style-type: none"> <li>1. The user taps the "home" tab at the bottom to go to the home page</li> <li>2. The user taps the session he or she wants to check-in from the list of current sessions</li> </ol>

	<ol style="list-style-type: none"> <li>The user taps “CHECK IN” button within 15 minutes of the stipulated starting time of the session</li> <li>The app grants the check-in request and sends a pop-up message to indicate successful check-in</li> <li>The app orders the email service provider to send an email notification to the user’s partner reminding him or her of the upcoming session</li> <li>The user’s partner in the session repeats step 1 to 4 to check-in for him or herself</li> <li>Once both users have checked-in, the app sends a pop-up message to both users to signal the start of the session</li> </ol>
<b>Alternative Flows:</b>	<p>11.AC.1: One of the users doesn’t come to the session</p> <ol style="list-style-type: none"> <li>The app will send an email notification to the absent user reminding him or her of the upcoming session</li> <li>If the user doesn’t show up and check in within 15 mins after the session start time, the session is marked as failed by the app</li> <li>The user who did not check-in will be penalized by the app.</li> </ol>
<b>Exceptions:</b>	Nil
<b>Includes:</b>	Nil
<b>Special Requirements:</b>	Nil
<b>Assumptions:</b>	<ul style="list-style-type: none"> <li>Each user can only check in within 15 minutes of the stipulated starting time of the session</li> <li>Each user can only check in within 10 metres of the chosen gym</li> </ul>
<b>Notes and Issues:</b>	If there is a no-show, the offending user will be penalized and not be able to post or join sessions for the next 72 hours.

<b>Use Case ID:</b>	UC-12		
<b>Use Case Name:</b>	Feedback		
<b>Created By:</b>	Yang Jingyi	<b>Last Updated By:</b>	Christopher Lim
<b>Date Created:</b>	10/02/2019	<b>Date Last Updated:</b>	26/02/2019

<b>Actor:</b>	User (initiating actor)
<b>Description:</b>	The user provides his or her feedback of a session to the app after the session ends

<b>Preconditions:</b>	1. The user has finished a successful session where both users have checked-in
<b>Postconditions:</b>	1. The app redirects the user back to the home page
<b>Priority:</b>	Medium
<b>Frequency of Use:</b>	High
<b>Flow of Events:</b>	<ol style="list-style-type: none"> <li>1. When a successful session finishes, the user taps "FINISH" button to end that session</li> <li>2. The app directs the user to the feedback page</li> <li>3. The user fills in the rating for his or her partner (on a scale of 1 to 5)</li> <li>4. The user ticks the boxes with adjectives matching his or her partner</li> <li>5. The user types in any remarks for the finished session</li> <li>6. The user taps "OKAY" button</li> <li>7. The app sends a pop-up message informing the user that his or her feedback has been collected</li> </ol>
<b>Alternative Flows:</b>	<p>12.AC.1: The user tapped the "OKAY" button before selecting a rating.</p> <ol style="list-style-type: none"> <li>1. The user receives a warning saying "please fill in the rate for your partner before submitting the feedback".</li> <li>2. The app returns to Step 2.</li> </ol>
<b>Exceptions:</b>	Nil
<b>Includes:</b>	Nil
<b>Special Requirements:</b>	Nil
<b>Assumptions:</b>	Nil
<b>Notes and Issues:</b>	Nil