

---

# Use Cases

for

# 6PM

**Version 1.0 approved**

**Prepared by**

Chen Feiyu

Chen Taoyu

Christopher Lim

Guo Mukun

Yang Jingyi

Guo Zhiwei

*Nanyang Technological University,  
School of Computer Science & Engineering*

**7th February 2019**

## Revision History

Name	Date	Reason For Changes	Version
All	07/02/19	Initial Version	1.0

<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>	Guo Mukun
<b>Date Created:</b>	10/02/2019	<b>Date Last Updated:</b>	10/02/2019

<b>Actor:</b>	User (Initiating actor), Email service provider (Participating actor)
<b>Description:</b>	<p>The users who are using this application for the first time will need to create an account before accessing to any other functionalities</p> <p>Entry condition: This use case extends the Login use case (UC-2). It is initiated when the new user wants to login but hasn't own an account.</p>
<b>Preconditions:</b>	NIL
<b>Postconditions:</b>	<ol style="list-style-type: none"> <li>1. An account for the user is created and stored in the system database</li> <li>2. User will be redirected to the login page</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 "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 account</li> </ol>
<b>Alternative Flows:</b>	<p>1.AC.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.AC.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>
<b>Exceptions:</b>	If the app is not connected to network: <ol style="list-style-type: none"> <li>1. The app displays error “No internet Connection”</li> <li>2. The user cannot create any account</li> </ol>
<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-2		
<b>Use Case Name:</b>	Login		
<b>Created By:</b>	Guo Mukun	<b>Last Updated By:</b>	Guo Mukun
<b>Date Created:</b>	10/02/2019	<b>Date Last Updated:</b>	10/02/2019

<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>	The user already has an account registered
<b>Postconditions:</b>	The user will log into the app and 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 clicks the “GO!” button.</li> <li>5. The user is redirected to the main page of the app.</li> </ol>
<b>Alternative Flows:</b>	2.AC.1: If the user enters wrong email/password: <ol style="list-style-type: none"> <li>1. The user receives a warning saying “Incorrect username or password”.</li> <li>2. The app returns to Step 2.</li> </ol>
<b>Exceptions:</b>	If the app is not connected to network: <ol style="list-style-type: none"> <li>1. The app displays error “No internet Connection”</li> </ol>

	2. The user cannot create any account
<b>Includes:</b>	Nil
<b>Special Requirements:</b>	Nil
<b>Assumptions:</b>	The user has an active account.
<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>	Guo Mukun
<b>Date Created:</b>	10/02/2019	<b>Date Last Updated:</b>	10/02/2019

<b>Actor:</b>	User (Initiating actor), Email service provider (Participating actor)
<b>Description:</b>	<p>The users who have registered for the app but forgot or lost their password may use this functionality to reset the password</p> <p>Entry condition: This use case extends the Login use case (UC-2). It is initiated when the user owns an account but forgot or lost the password</p>
<b>Preconditions:</b>	<ol style="list-style-type: none"> <li>1. The user already has an account registered</li> <li>2. The user has access to the email account which is used to register for the app.</li> </ol>
<b>Postconditions:</b>	<ol style="list-style-type: none"> <li>1. The password is reset.</li> <li>2. The user is able to log into the app using the new password</li> </ol>
<b>Priority:</b>	High
<b>Frequency of Use:</b>	Very 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 due to lost of 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 the email address.</li> <li>6. The user taps the "Confirm" button.</li> <li>7. An email will be send to the user's email address.</li> </ol>

	8. The user checks the inbox and uses the link found in the email to reset the password.
<b>Alternative Flows:</b>	<p>3.AC.1: If the user enters a wrong 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.AC.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>Exceptions:</b>	<p>If the app is not connected to network:</p> <ol style="list-style-type: none"> <li>3. The app displays error “No internet Connection”</li> <li>4. The user cannot create any account</li> </ol>
<b>Includes:</b>	Nil
<b>Special Requirements:</b>	Nil
<b>Assumptions:</b>	The user has an account but fails to login
<b>Notes and Issues:</b>	Nil

<b>Use Case ID:</b>	UC-4		
<b>Use Case Name:</b>	Search for Gyms		
<b>Created By:</b>	Chen Feiyu	<b>Last Updated By:</b>	Chen Feiyu
<b>Date Created:</b>	09/02/2019	<b>Date Last Updated:</b>	10/02/2019

<b>Actor:</b>	User (Initiating actor)
<b>Description:</b>	The user uses the gym map to search for gyms by name or postcode.
<b>Preconditions:</b>	The user log in to the system via the Login use case UC-2.
<b>Postconditions:</b>	<ol style="list-style-type: none"> <li>1. Search result is displayed.</li> <li>2. The user receives an explanation on why the result cannot be displayed.</li> </ol>
<b>Priority:</b>	NIL
<b>Frequency of Use:</b>	NIL
<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’ map.</li> </ol>

	<ol style="list-style-type: none"> <li>The systems shows the distance and the used percentage of the few nearest gyms around the user base on the user's current location.</li> <li>The user taps on the search bar to search for gyms.</li> <li>User enter the search location or postcode.</li> <li>The system compares the search terms with the database and retrieve the retrieves the relevant information.</li> <li>The system displays the search result.</li> <li>The use case ends when the user selects other bars.</li> </ol>
<b>Alternative Flows:</b>	NIL
<b>Exceptions:</b>	<p>EX-S6: if the System could not connect to the database</p> <ol style="list-style-type: none"> <li>The System displays the message "Error connecting to the server. Please check your connection and try again later."</li> </ol> <p>EX-S6: The search term does not match any information in database</p> <ol style="list-style-type: none"> <li>The System displays the message "Search did not return any results. Please try again."</li> </ol> <p>EX-S2: The User cancels Search process</p> <ol style="list-style-type: none"> <li>The User selects 'Back' or other bars.</li> <li>The Use case ends.</li> </ol>
<b>Includes:</b>	UC-1, UC-2
<b>Special Requirements:</b>	NIL
<b>Assumptions:</b>	
<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>	Chen Feiyu
<b>Date Created:</b>	09/02/2019	<b>Date Last Updated:</b>	09/02/2019

<b>Actor:</b>	User (Initiating Actor)
<b>Description:</b>	The user creates personal profile in the system after he or she logs in for the first time.

<b>Preconditions:</b>	The user has created an account via the Create Account use case 1 and is logged in via the Login use case 2.
<b>Postconditions:</b>	<ol style="list-style-type: none"> <li>1. The profile of the user is created and added to the database of the system.</li> <li>2. The user is able to enter the main page.</li> </ol>
<b>Priority:</b>	NIL
<b>Frequency of Use:</b>	NIL
<b>Flow of Events:</b>	<ol style="list-style-type: none"> <li>1. If the user is logged in for the first time, the system uses the included use case Login to verify the user.</li> <li>2. Upon successful login, the system sends a welcome message which prompts the user to create his or her personal profile.</li> <li>3. The user optionally uploads his or her profile image.</li> <li>4. The user optionally chooses his or her gender from male, female or others.</li> <li>5. The user optionally chooses his or her date of birth in the calendar.</li> <li>6. The user optionally chooses his or her level of experience from the given scale.</li> <li>7. If the user selects the question mark, the Level Selection Guide sub-flow is performed.</li> <li>8. The user optionally chooses his or her interest from the given list.</li> <li>9. The user optionally chooses his or her strength from the given list.</li> <li>10. If the user taps the NEXT bar, then the use case ends and the system proceeds to the main page.</li> </ol> <p>Level Selection Guide</p> <ol style="list-style-type: none"> <li>1. The system provides a level guide for the user.</li> <li>2. The user clicks again to go back to the original page.</li> </ol>
<b>Alternative Flows:</b>	NIL
<b>Exceptions:</b>	<p>EX-S10: if the System could not connect to the database</p> <ol style="list-style-type: none"> <li>1. The system displays the message "Error connecting to the server. Please check your connection and try again later."</li> </ol> <p>EX-S5: if the user chooses a day after the current date</p> <ol style="list-style-type: none"> <li>1. The system displays the message "Please choose the available date of birth or skip this term"</li> </ol>
<b>Includes:</b>	UC-1, UC-2
<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>	Chen Feiyu
<b>Date Created:</b>	10/02/2019	<b>Date Last Updated:</b>	10/02/2019

<b>Actor:</b>	User (Initiating Actor)
<b>Description:</b>	The user updates his or her profile based on the current profile.
<b>Preconditions:</b>	The user has created an account via the Create Account use case 1 and is logged in via the Login use case 2 and has already created his or her profile via the Create Profile use case 3.
<b>Postconditions:</b>	NIL
<b>Priority:</b>	NIL
<b>Frequency of Use:</b>	NIL
<b>Flow of Events:</b>	<ol style="list-style-type: none"> <li>1. The user taps the personal bar to update his profile.</li> <li>2. The user updates his or her user images by choosing another photo and 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 interests by ticking the choices again.</li> <li>8. The user updates his or her strength by ticking the choices again.</li> <li>9. The user taps on the save bar to save his update and end this use case.</li> </ol>
<b>Alternative Flows:</b>	
<b>Exceptions:</b>	EX-S9: if the System could not connect to the database 2. The system displays the message "Error connecting



	to the server. Please check your connection and try again later.” EX-S5: if the user chooses a day after the current date 2. The system displays the message “Please choose the available date of birth or skip this term”
<b>Includes:</b>	UC-1, UC-2, UC-3
<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>	12/02/2019

<b>Actor:</b>	User
<b>Description:</b>	The user posts a session detailing his or her preferred time slot, gym location, gender preference, focus, level of experience.
<b>Preconditions:</b>	
<b>Postconditions:</b>	<ol style="list-style-type: none"> <li>1. A session is created with the flag set to “false”</li> <li>2. The session will appear 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. The user clicks 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> <li>6. The user fills in his or her level of experience in that selected focus</li> <li>7. The user clicks on “post session” button</li> </ol>

	8. A summary page will appear 9. The user clicks on “confirm” button
<b>Alternative Flows:</b>	7.AC.1 The user clicks 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>	EX-S8: If the user already posted a session within the same time slot, the system will display an error and ask the user to specify another time slot
<b>Includes:</b>	
<b>Special Requirements:</b>	
<b>Assumptions:</b>	1. The user already has an active account
<b>Notes and Issues:</b>	

<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>	12/02/2019

<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>	
<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>	<ol style="list-style-type: none"> <li>1. The user clicks on “search for session” button</li> <li>2. The user optionally inputs one or more search filters</li> <li>3. Search filters include: time slot, location, focus, gender preference, and level of experience</li> <li>4. A list of sessions matching the user’s search criteria will be displayed</li> <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> </ol>

<b>Alternative Flows:</b>	
<b>Exceptions:</b>	EX-S2: If the user does not input any search filter, the result list will be empty
<b>Includes:</b>	
<b>Special Requirements:</b>	
<b>Assumptions:</b>	1. The user already has an active account
<b>Notes and Issues:</b>	

<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>	12/02/2019

<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>	1. The user has searched for sessions by inputting at least one search filter
<b>Postconditions:</b>	1. The user will join a session created by another user 2. That session's flag will be set to "true" and will not show up 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. From the list of filtered search results, the user will select a session he wants to join</li> <li>2. A pop-up message will appear asking the user to confirm the selected session</li> <li>3. The user clicks on "confirm"</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 clicks on "cancel" button during the pop-up 9.AC.2 The user is taken back to the search results page and will not be part of the previously selected session
<b>Exceptions:</b>	EX-S2: If the user already has a matched session within the same time slot, the system will display an error message and ask the user to select a different session
<b>Includes:</b>	UC-8
<b>Special Requirements:</b>	

<b>Assumptions:</b>	1. The user already has an active account
<b>Notes and Issues:</b>	

<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>	Yang Jingyi
<b>Date Created:</b>	10/02/2019	<b>Date Last Updated:</b>	10/02/2019

<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. Invocation as an included use case by UC-7 Post session, or</li> <li>2. The user has created a session which is either matched or unmatched, or</li> <li>3. 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 system (if the session is an unmatched one), or</li> <li>2. the flag of the cancelled session will be set to “unmatched”, the user will be removed from this session, and the the session will appear in other users’ search results (if the session is already 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 button at the bottom to enter home page</li> <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” button</li> <li>4. A pop-up message appears asking the user to confirm the selected session</li> <li>5. The use taps “confirm” button</li> <li>6. The system informs the user that the chosen session has been cancelled</li> </ol>
<b>Alternative Flows:</b>	10.AC.1 The user clicks on “cancel” button during the pop-up <ol style="list-style-type: none"> <li>1. The user is taken back to step 2</li> </ol>

<b>Exceptions:</b>	NIL
<b>Includes:</b>	NIL
<b>Special Requirements:</b>	
<b>Assumptions:</b>	1. The user already has an active account
<b>Notes and Issues:</b>	

<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>	Yang Jingyi
<b>Date Created:</b>	10/02/2019	<b>Date Last Updated:</b>	10/02/2019

<b>Actor:</b>	User (initiating actor) Email Service Provider (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>	The user has one matched session
<b>Postconditions:</b>	A timer starts after both users in the session have checked-in
<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 the home button at the bottom to enter home page</li> <li>2. The user taps the session he or she wants to check-in from the list of current sessions</li> <li>3. The user taps "CHECK IN" button</li> <li>4. The system grants the check-in request and sends a pop-up message to indicate successful check-in</li> <li>5. The system 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>6. The other user in the session repeats step 1 to 4 to check-in for himself or herself</li> <li>7. The system sends a pop-up message to signal the start of the session</li> </ol>
<b>Alternative Flows:</b>	11.AC.1 One of the users doesn't come to the session <ol style="list-style-type: none"> <li>1. The system orders the email service provider to send an email notification to the absent user reminding him or her of the upcoming session</li> </ol>

	2. If the user doesn't show up within 10 mins after the session start time, the session is marked as failed by the system
<b>Exceptions:</b>	NIL
<b>Includes:</b>	NIL
<b>Special Requirements:</b>	
<b>Assumptions:</b>	1. The user already has an active account
<b>Notes and Issues:</b>	

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

<b>Actor:</b>	User (initiating actor)
<b>Description:</b>	The user provides his or her feedback of a session to the system after the session ends
<b>Preconditions:</b>	The user has finished a successful session where both users has checked-in
<b>Postconditions:</b>	The system directs 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 system directs the user to the feedback page</li> <li>3. The user fills in the rate for his or her partner (on a scale of 5)</li> <li>4. The user optionally ticks the boxes with description words matching his or her partner</li> <li>5. The user optionally types in the remark for the finished session</li> <li>6. The user taps "OKAY" button</li> <li>7. The system 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 has filled in the rate before tapping "OKAY" button</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> </ol>

	2. The system returns to Step 2.
<b>Exceptions:</b>	NIL
<b>Includes:</b>	NIL
<b>Special Requirements:</b>	NIL
<b>Assumptions:</b>	1. The user already has an active account
<b>Notes and Issues:</b>	