Use Case ID:	001		
Use Case Name:	Register		
Created By:	Tan Wu Ji	Last Updated By:	Boon Yi
Date Created:	11/2/2024	Date Last Updated:	23/2/2024

Actor:	App User, Database	
Description:	App User can choose to register for an account which will be stored	
Description.	in the Database	
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Preconditions:	1. Database must be up and online	
	2. App User must be connected to Internet	
Postconditions:	App User has successfully registered an account with a	
	unique username and password.	
	OR	
	App User is notified of the unsuccessful registration of an	
	account	
Priority:		
Frequency of Use:		
Flow of Events:	1. At the home page, App User clicks on "Sign up" and is	
	redirected to the registration page.	
	2. App User inputs a valid email, a unique username, a	
	password with at least 8 characters, 1 upper-case letter and	
	1 lower-case letter and the repeated password in the	
	respective fields in the registration page.	
	3. App User checks the checkbox of "I agree to the Terms of	
	Use and Private Policy" and clicks on ""Sign Up" to	
	register and create an account.	
	4. The system verifies the username is unique and the	
	password satisfies the constraints.	
	5. App User inputs a One Time Password (OTP) which is sent	
	to his/her email inbox for further verification.	
	6. The system stores App User's information in the Database.	
	7. App User is notified that the registration is successful.	

Alternative Flows:

AF-S2: App User left input field(s) blank.

- 1. When the App User clicks on "Sign Up", the system displays the message "Please fill in all input fields to register for an account!" above the registration page.
- 2. The system returns to Step 2 and waits for the App User inputs.

AF-S3: App User did not check the checkbox of "I agree to the Terms of Use and Privacy Policy".

- 1. When the App User clicks on "Sign Up", the system displays the message "Please tick the checkbox for acknowledging the Terms of Use and Privacy Policy!" above the registration page.
- 2. The system returns to Step 3 and waits for the App User inputs.

AF-S4: App User inputs a taken username.

- 1. The system displays the message "Username has been taken. Please input a new username!" above the registration page.
- 2. The system returns to Step 2 and waits for the App User inputs.

AF-S4: App User inputs a password that does not satisfy the given requirements.

- 1. The system displays the message "Password must contain at least 8 characters, 1 upper-case letter and 1 lower-case letter!!!" above the registration page.
- 2. The system returns to Step 2 and waits for the App User inputs.

AF-S4: App User inputs mismatched passwords.

- 1. The system displays the message "Passwords do not match! Please check again!" above the registration page.
- 2. The system returns to Step 2 and waits for the App User inputs.

AF-S5: App User inputs an incorrect OTP.

- 1. The system displays the message "Incorrect OTP! Please try again!" above the registration page.
- 2. The system returns to Step 5 and waits for the App User inputs.

Exceptions:

EX-1: App User did not receive the OTP in his/her email inbox.

- 1. The "Resend another OTP" button is available after 60 seconds.
- 2. App User clicks on the "Resend OTP" button to resend another OTP to his/her email inbox.

	3. The system returns to Step 5 and waits for the App User inputs.
Includes:	
Special Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	002		
Use Case Name:	Login		
Created By:	Tan Wu Ji	Last Updated By:	Boon Yi
Date Created:	11/2/2024	Date Last Updated:	23/2/2024

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Actor:	App User, Database
Description:	App User can login to his/her account with their username and
	password which are stored in the Database. Logging in allows them
	to save their preferences.
Preconditions:	1. The Database must be up and online.
	2. App User must be connected to the Internet.
	3. App User has a registered account.
Postconditions:	App User has successfully logged into his/her account.
	OR
	App User is notified of the unsuccessful login to his/her
	account.
Priority:	
Frequency of Use:	
Flow of Events:	1. At the home page, App User clicks on "Log in" and is
	redirected to the login page.
	2. App User inputs his/her username and password.
	3. App User clicks on "LOGIN".
	4. The system verifies the username and password with the
	Database.
	5. Once the information is verified, the App User is redirected
	to the home page.
	to the nome page.
Alternative Flows:	AF-S2: If the App User inputs an incorrect username or password.
	111 82. If the ripp over inputs an incorrect assimance of password.
	1. When the App User clicks on "LOGIN", the system
	displays the message "Invalid username and/or password!"
	above the registration page.
	2. The system returns to Step 2 and waits for the App User
	inputs.
	F 5
Exceptions:	EX-1: The App User did not register for an account.
	1. The system displays the message "Please register an
	account in order to log in".
	2. The system directs the App User to the registration page.
Includes:	Register

Special Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	003		
Use Case Name:	SearchHome		
Created By:	Tan Wu Ji	Last Updated By:	Boon Yi
Date Created:	11/2/2024	Date Last Updated:	23/2/2024

Actor:	App User, API data	
Description:	App User will be able to search for properties with keywords such	
•	as location or the properties' name. The system will retrieve	
	information from the API data and display the result for the App	
	User.	
Preconditions:	1. Database is up and online	
	2. App User is connected to the Internet.	
Postconditions:	App User obtained a list of searched properties based on the	
	keywords.	
	OR	
	App User is unable to obtain a search result based on the	
	keywords.	
Priority:		
Frequency of Use:		
Flow of Events:	1. At the home page, the App User clicks on the search bar,	
	types in keywords in the search bar and clicks on the	
	"Search" icon/button.	
	2. The system retrieves a list of properties from the API data	
	and searches for the relevant properties based on the keywords.	
	3. The system displays information of the relevant properties	
	such as property name, price and address.	
Alternative Flows:	AF-S1: App User inputs nothing and clicks on the search icon.	
Antinative Flows.	711-51. Type Oser inputs nothing and eneks on the scatch icon.	
	1. The system displays a list of 20 random properties.	
	2. The system returns to Step 1 and waits for the App User	
	actions.	
Exceptions:	EX-1: The keyword input by the App User does not match any	
	searched items.	
	1 77	
	1. The system displays the message "No relevant properties	
	are found!".	
	2. The system returns to Step 1 and waits for the App User	
Includes:	actions.	
Special Requirements:		
Assumptions:		

Notes	and	Issues:

Use Case ID:	004		
Use Case Name:	Bookmark		
Created By:	Tan Wu Ji	Last Updated By:	Boon Yi
Date Created:	11/2/2024	Date Last Updated:	23/2/2024

Actor:	App User, Database	
Description:	App User can bookmark their interested properties. The system	
	saves the bookmarked properties in the database. App User is able	
	to quickly find their properties when he/she uses the app later.	
Preconditions:	1. App User is connected to the Internet.	
	2. App User registered for an account with the Database.	
	3. App User has logged in to his/her account.	
Postconditions:	App User has successfully added the property into their	
	bookmark and saved into the database.	
	OR	
	App User has successfully removed the property from their	
	bookmark and updated the database.	
Priority:		
Frequency of Use:		
Flow of Events:	1. When the App User clicks the property, the system directs	
	App User to the detailed information page.	
	2. The "bookmark" icon located at the top right corner	
	displayed in grey colour.	
	3. App User clicks the "bookmark" icon.	
	4. The system saves the property into the App User's	
	database.	
	5. The "bookmark" icon turns yellow, indicating that this	
	property is successfully added into the bookmark database.	
Alternative Flows:	AF-S2: "Bookmark" icon is in yellow colour	
	1. When the App User clicks the yellow colour bookmark, the	
	system removes the property from the database.	
	2. The system changes the "bookmark" icon to grey colour,	
	indicating that the property is successfully removed from	
	the database.	
	3. The system returns to Step 1 and waits for the App User	
	actions.	
	AF-S2: App User does not log into his/her account	
	**	
	1. The system displays the message "Please log into your	
	account to bookmark this property".	
	2. The system directs the App User to the login page.	
	3. App User uses the LOGIN use case to log into his/her	
	account.	
	4. The system returns to Step 1 and waits for the App User	
	input.	

Exceptions:	
Includes:	Login
Special Requirements:	
Assumptions:	
Notes and Issues:	

Use Case ID:	005		
Use Case Name:	TransportOption		
Created By:	Tan Wu Ji	Last Updated By:	Boon Yi
Date Created:	11/2/2024	Date Last Updated:	23/2/2024

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Actor:	App User	
Description:	System prompts App User to choose the transport options such as	
	MRT, CAR, BUS.	
Preconditions:	1. App User is connected to the Internet.	
	2. App User is in the detailed information page.	
Postconditions:	App User successfully input the transportation option.	
	OR	
	App User failed to input the transportation option.	
Priority:		
Frequency of Use:		
Flow of Events:	1. The system prompts App User to select the transportation	
	option.	
	2. App User chooses the corresponding option and clicks	
	"Select".	
	3. The system saves the App User's choice.	
Alternative Flows:	AF-S2: App User does not choose any option and clicks "Select"	
	1. The system displays the message "Please choose your	
	transportation option".	
	2. The system returns to Step 1 and waits for the App User	
	input.	
Exceptions:	EX-1: App User clicks "Cancel" button	
	1. The existent returns to the detailed information reco	
T 1 1	The system returns to the detailed information page.	
Includes:		
Special Requirements:		
Assumptions:		
Notes and Issues:		

Use Case ID:	006		
Use Case Name:	ShowETA		
Created By:	Tan Wu Ji	Last Updated By:	Boon Yi
Date Created:	11/2/2024	Date Last Updated:	23/2/2024

Actor:	App User, API data	
Description:	The system shows the Estimated Time of Arrival (ETA) based on	
	the App User's input of the transportation option.	
Preconditions:	1. App User is connected to the Internet.	
	2. App User is in the detailed information page.	
	3. API data is up and connected.	
Postconditions:	The system successfully showed the ETA corresponding to	
	the transport option.	
	OR	
	The system failed to show the ETA.	
Priority:		
Frequency of Use:		
Flow of Events:	1. App User clicks "Show ETA".	
	2. App User uses the TransportOption use case to select the	
	transportation option.	
	3. The system retrieves the property's address from the API	
	data.	
	4. The system makes API request calls to calculate the ETA	
	between the addresses.	
	5. The system displays the ETA.	
Alternative Flows:	AF-S4: The system failed to calculate the ETA	
	1. The system displays the message "Calculating the ETA	
	1. The system displays the message "Calculating the ETA	
	again". 2. The system returns to Step 3.	
Exceptions:	EX-1: The system failed to calculate ETA in 30 seconds	
Exceptions:	EA-1. The system railed to calculate ETA in 30 seconds	
	1. The system uses the FrequentAddress use case to wait for	
	App User to input the address again.	
Includes:	TransportOption	
Special Requirements:		
Assumptions:		
Notes and Issues:		

Use Case ID:	007		
Use Case Name:	FrequentAddress		
Created By:	Boon Yi	Last Updated By:	Boon Yi
Date Created:	12/02/2024	Date Last Updated:	23/02/2024

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Actor:	App User, Database	
Description:	App User can input the addresses of places they frequent. The	
	system will show the ETA from their properties of interest to the	
	places they frequent.	
Preconditions:	1. App User is connected to the internet	
	2. App User is in the detailed information page	
Postconditions:	The system successfully showed the ETA from their	
	property of interest to their input address.	
	OR	
	The system failed to show the ETA from their property of	
	interest to their input address.	
Priority:		
Frequency of Use:		
Flow of Events:	1. App User click on the property of interest	
	2. System directs App User to the detailed information page	
	3. The "ShowETA" icon is located at the top right hand corner	
	of the page	
	4. App User click on the "ShowETA" icon	
	5. System prompt the App User to input their address	
	6. System then calculate ETA using ShowETA function	
	7. System display ETA calculated	
Alternative Flows:	AF-S5: App User input invalid address	
	1. System display "Unable to find address"	
	2. System return to step 5 and wait for App user input	
	AF-S6: Unable to calculate ETA with corresponding transport	
	option	
	1 System display "Transport Option not available"	
	1. System display "Transport Option not available"	
	2. System use TransportOption use case and wait for App user	
	to select alternate transport option.	
Exceptions:	EX-1: App User clicks "Cancel" button	
· · · · · ·		
	2. The system returns to the detailed information page.	
Includes:	ShowETA	
Special Requirements:		
Assumptions:		
Notes and Issues:		

Use Case ID:	008		
Use Case Name:	Show nearby amenities		
Created By:	Boon Yi	Last Updated By:	Boon Yi
Date Created:	12/02/2024	Date Last Updated:	23/02/2024

Actor:	App User, API data	
Description:	· · ·	
Description:	of interest.	
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Preconditions:	1. App User is connected to the internet	
	2. App User is in the detailed information page	
Postconditions:		
	App User property of interest.	
	OR	
	The system failed to display nearby amenities from App	
	User property of interest.	
Priority:		
Frequency of Use:		
Flow of Events:	1. App User click on the property of interest	
	2. System directs App User to the detailed information page	
	3. The "Amenities" icon is located at the top right hand corner	
	of the page	
	4. App User click on the "Amenities" icon	
	5. System display nearby amenities from property of interest	
Alternative Flows:		
	THE SECTION WITH STREET	
	1. System display "Unable to find any amenities"	
	2. System return to step 2	
Exceptions:	EX-1: App User clicks "Cancel" button	
	1. The system returns to the detailed information page.	
Includes		
Includes:		
Special Requirements:		
Assumptions:		
Notes and Issues:		