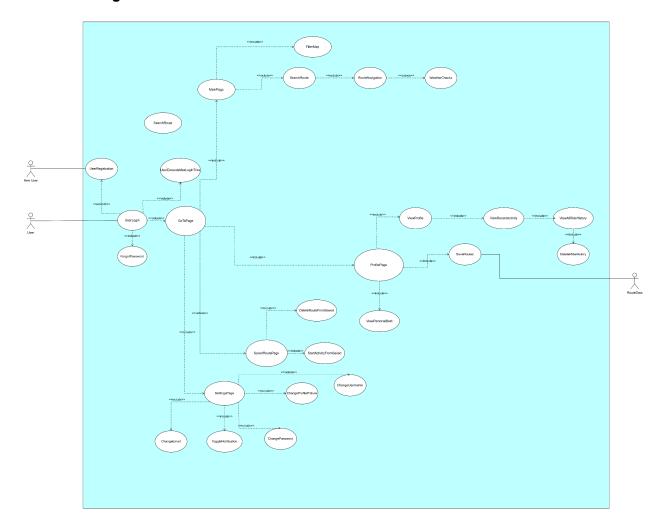
#### Link to DrawlO:

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# Use Case Diagram



### **Use Case Descriptions**

Use Case ID:	1.1			
Use Case Name:	UserLogin			
Created By:	Harikrishnan Vinod Last Updated By: Harikrishnan Vinod			
Date Created:	27/01/2025	Date Last Updated:	27/01/2025	

Actor:	Returning User	
Description:	This use case will allow the user to log in to their account using	
	Email ID/Username and password	
Preconditions:	1. The user must have the system installed	
	2. The user must have a valid account	
Postconditions:	The User will be logged into their account and is navigated to the	
	main page of the system.	
Priority:	High	
Frequency of Use:	1 time upon download and after 3 months of inactivity	
Flow of Events:	1. The User will be prompted at the Welcome Page if they	
	have an existing account or if they are a first time user	
	2. The User upon selection of "Already have an Account" will	
	log in by entering the "Email ID or Username" and	
	"Password" fields	
	3. If the login is successful, the User will be directed to the	
	Main Page of the system	
Alternative Flows:	AF-S3: User does not remember his password	
	1. User selects the "Forget Password" button and is directed to	
	the Forget Password use case	
Exceptions:	1. If the login credentials are invalid, an error message is	
	flashed and the user will not be logged in.	
Includes:	ForgetPassword	
Special Requirements:	The system needs to validate the user login credentials	
Assumptions:	The User has an existing account	
	2. The User is connected to the Internet	
Notes and Issues:	None	

Use Case ID:	1.1.2.3			
Use Case Name:	UserExceedsMaxLoginTries			
Created By:	Harikrishnan Vinod Last Updated By: Harikrishnan Vinod			
Date Created:	27/01/2025	Date Last Updated:	27/01/2025	

Actor:	Returning User		
Description:	This use case will allow the user to regain access to their account		
Preconditions:	1. The use must have a valid account		
Postconditions:	The User will be sent a link to their email account that can help		
	them reset their password and regain access to their account		
Priority:	High		
Frequency of Use:	Almost Never		
Flow of Events:	<ol> <li>The User will be prompted at the Welcome Page if they have an existing account or if they are a first time user</li> <li>The User upon selection of "Already have an Account" will log in by entering the "Email ID or Username" and "Password" fields</li> <li>If the login is unsuccessful after 3 tries, the User will be directed to the Forget Password page</li> <li>The user will be asked to fill in their email address</li> <li>If it is a valid email address for which there is an account, a link will be sent to the User's email address</li> <li>The user will be able to set a new password and can resume to the User Login use case</li> </ol>		
Alternative Flows:	None		
Exceptions:	<ol> <li>No valid account associated with the email address is found</li> <li>User is then prompted to go to the <b>Register User</b> use case</li> </ol>		
Includes:	ForgotPassword		
Special Requirements:	The system needs to be able send emails with a reset password link after finding the User's account		
Assumptions:	None		
Notes and Issues:	None		

Use Case ID:	1.2		
Use Case Name:	ForgotPassword		
Created By:	Bryan Goh	Last Updated By:	Bryan Goh
Date Created:	28/01/2025	Date Last Updated:	16/02/2025

Actor:	Users
Description:	Users can to reset their passwords by entering their email address
Preconditions:	Users must have an account on the system
Postconditions:	User's password reset and temporary password sent to their email
	address
Priority:	High
Frequency of Use:	Medium
Flow of Events:	User cannot remember their log in password

	2. User click onto the "Forgot Password" button in the login
	page
	3. The system brings the user to the "Forgot Password" page
	and prompts user to enter his/her email address in the email
	field
	<ol> <li>User enters his/her email address that was registered in the system</li> </ol>
	<ol><li>The system verifies if the email address entered is an registered email</li></ol>
	6. If the email address is a valid registered email address, the
	system generates a temporary password and set the user's
	password as the generated password in the user database
	7. The system sends the generated temporary password to the
	user's email address
Alternative Flows:	AFS6: If the user enters an email address that is not registered
	1. The system returns to step 3
	2. The system highlights the Username entry box in red
	3. The system displays the message "User not found. Please
	enter a registered email!"
Exceptions:	None
Includes:	None
Special Requirements:	None
Assumptions:	The system is able to connect to the database server 100% of the
•	time
Notes and Issues:	None

Use Case ID:	1.3			
Use Case Name:	UserRegistration			
Created By:	Harikrishnan Vinod Last Updated By: Bryan Goh			
Date Created:	27/01/2025	Date Last Updated:	16/02/2025	

Actor:	First time User	
Description:	This use case will allow the user to register for an account	
Preconditions:	1. The user must have the system installed	
	2. The user must have an email account they have access to	
Postconditions:	The User will be logged into their account and is navigated to the	
	main page of the system.	
Priority:	High	
Frequency of Use:	1 time	
Flow of Events:	1. The User will be prompted at the Welcome Page if they	
	have an existing account or if they are a first time user	

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	<ol> <li>The User upon selection of "Sign Up" will register by entering a valid email address, username, and a complex password</li> <li>If all the user information entered are valid, The system will verify if either the username or email address entered is already taken by another user by querying the user database.</li> <li>If the username and email entered is not found in the user database, it means that both the username and email address have not been taken. The system will then create an</li> </ol>
	accountfor the User, he can now login using the <b>User Login</b>
	use case
Alternative Flows:	AF-S3: User enters a username or email address with an invalid
	format, or the user enters a weak password:
	1. The system returns to step 3
	2. The system clears and highlights the
	Username/Email/Password entry box in red
	3. The system displays the message "Invalid Email Format!", "Invalid username. Do not use any symbols other than '.' or
	'_'!", or "Password not strong enough! Please enter another password that is at least 8 characters long, and containing at least one uppercase letter, one lowercase letter, and a symbol!" for invalid email, username, and password respectively.
	AF-S4: User enters a username or email address that has already been used
	1. The system returns to step 3
	2. The system clears and highlights the Username/Email entry boxes in red
	3. The system displays the message "Username is taken, please enter another username" or "Email address is already registered!" for username and email found in the user database respectively
Exceptions:	If any required information is invalid or missing, the field will be highlighted in red and an error message is displayed
Includes:	
Special Requirements:	The system needs to validate the user input data
Assumptions:	The User has working email account
Notes and Issues:	None

Use Case ID:	1.4.1		
Use Case Name:	SearchRoute		
Created By:	Bryan Goh	Last Updated By:	Bryan Goh

Actor:	User
Description:	In the Main Page, the User should be able to search for their
	"FROM" and "TO" addresses, then the system will find a cycling
	path for them when they click on the "GO" button.
Preconditions:	User is authenticated and logged in and in the Main Page
Postconditions:	User successfully search for their cycling route
Priority:	High
Frequency of Use:	High
Flow of Events:	1. The User successfully logs into his/her account and is
	navigated to the Main Page.
	2. The system will display "FROM" and "TO" search bars
	followed by a map that shows their current location.
	3. The system will automatically populate the "FROM" search
	bar with their detected current location.
	4. User clicks onto the "FROM" search bar.
	5. The system displays their top 3 most recently searched
	routes in the drop-down list that users can choose to click
	for quicker search.
	6. If the User searches their desired location without clicking
	onto any recent past routes, the system will prompt the user
	to enter the "TO" location by shifting the focus onto the
	"TO" search bar.
	7. The User enters their destination in the "TO" search bar and clicks onto the "GO" button.
	8. The system then searches for a cycling route based on the
	"TO" and "FROM" locations and displays it on the map.
Alternative Flows:	AF-S6: User clicks onto any of their recent search in the drop-down list
	1. The system automatically populates the "FROM" and "TO"
	fields and searches for a route.
	2. The system then displays the route on the map.
Exceptions:	EX1: User's location cannot be found
Zacoptions.	Error message is displayed "Could not find location!"
Includes:	Map API, RouteNavigation
Special Requirements:	Phone permission for location access is enabled
Assumptions:	None
Notes and Issues:	None
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Use Case ID:	1.4.2

Use Case Name:	FilterMap		
Created By:	Bryan Goh	Last Updated By:	Cheryl Chin
Date Created:	30 January 2025	Date Last Updated:	2 February 2025

Actor:	User
Description:	Users can select cycling related facilities such as water coolers, bike parking stops and bike repair shops to only display facilities based on their preferences on the map at any point in time.
Preconditions:	User is authenticated and logged in and navigated to the Main Page
Postconditions:	User successfully filtered for preferred facilities on the map
Priority:	High
Frequency of Use:	High
Flow of Events:	<ol> <li>The User successfully logs into his/her account and is navigated to the Main Page.</li> <li>The system will display the map with no filters on the Main Page by default.</li> <li>User clicks onto the "Filter" button on the bottom left corner of the map.</li> <li>The system will display "Water Coolers", "Bike Repair", and "Bike Park" checkboxes.</li> <li>If the user checks the "Water Coolers" checkbox and no other checkboxes, then clicks "Confirm", the map will display ALL water coolers on the map.</li> </ol>
Alternative Flows:  Exceptions:	AF-S5: User checks ALL filters available  1. User checks on the "Water Coolers", "Bike Repair", and "Bike Park" checkboxes.  2. The map will display ALL water coolers, bike repair shops, and bicycle parks on the map.
	EX1: If no cycling-related facilities match the selected filters, the system displays a message: "No results found."
Includes:	Map API
Special Requirements:	Phone permission for location access is enabled
Assumptions:	None
Notes and Issues:	None

Use Case ID:	1.4.3		
Use Case Name:	RouteNavigation		
Created By:	Cheryl Chin	Last Updated By:	Cheryl Chin
Date Created:	2/2/25	Date Last Updated:	2/2/25

Actor:	User
Description:	Users are able to press the start button to begin navigating a route,
Description.	receive real-time turn-by-turn directions, and track key stops such as
	water coolers, bicycle repair shops and parking spots along their
	route
Preconditions:	Users must be authenticated and logged in.
Freconditions.	Location services must be enabled.
	The device must have GPS functionality with internet connection
	active.
D 4 137	Users are navigated to the main page.
Postconditions:	Upon completing the route, the user can see a summary of their
	activity, which denotes a map of the route they travelled, along with
	statistics such as their distance travelled, time elapsed, calories
	burnt, cadence and elevation gain, below the map.
Priority:	High
Frequency of Use:	Multiple times a day (depend on user's activity level and frequency
	of use)
Flow of Events:	1. User presses the "Start" button.
	2. The system initialises GPS and it starts to track the user's
	location.
	3. The map displays the user's current location and navigation route.
	4. A weather feature that estimates weather conditions along
	the user's planned route is shown.
	5. Turn-by-turn navigation instructions will be provided
	through a bar at the top section of the screen.
	6. Key stops (water coolers, bicycle repair shops and parking
	spots) will be indicated on the map with their respective
	icons). No other icons that are not along the way of the route
	will be displayed.
	7. User presses the "End" button upon reaching their
	destination. The system will notify users of successful route
	completion via a pop-up and the pop-up should include an
	"OK" and "Saved Route" buttons.
	8. The system will bring users to another pop-up page with all
A1, .: 131	their activity statistics.
Alternative Flows:	AF-S1: If GPS functionality is not available where they are, the
	system will show an offline error, and prompt the user to enable
F 2	location services.
Exceptions:	None

Includes:	Key stops (water coolers, bicycle repair shops and parking spots) will be indicated on the map with their respective icons), Map API,
	WeatherChecks
Special Requirements:	The interface must be user friendly and accessible
	GPS tracking needs to be accurate and the map needs to be timely
	updated with new/closed spots.
Assumptions:	Users will only navigate in areas with Internet connectivity and
	GPS connectivity.
Notes and Issues:	None

Use Case ID:	1.4.4		
Use Case Name:	WeatherChecks		
Created By:	Ethan	Last Updated By:	Ethan
Date Created:	28/1/25	Date Last Updated:	28/1/25

Actor:	User
Description:	system will display alerts for users when there is inclement weather
	such as rain or high uv index detected within 3 hours for the desired
	route to be taken.
Preconditions:	Users have already used RouteNavigation to obtain a path to their
	destination.
Postconditions:	None
Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	1. User sets a route by the RoutingFunction.
	2. If there is a chance of rain or high uv index along the routed
	path, the system will notify the user of the bad weather and
	ask if they are willing to proceed with the current path.
Alternative Flows:	None
Exceptions:	None
Includes:	SearchRoute, RouteNavigation
Special Requirements:	None
Assumptions:	None
Notes and Issues:	None

Use Case ID:	1.4.3.7.2 / 1.5.6 - 1.5.7 / 1.6.3		
Use Case Name:	SaveUnsaveRoutes		
Created By:	Lim En Jia	Last Updated By:	Lim En Jia
Date Created:	31 January 2025	Date Last Updated:	31 January 2025

Actor:	User
Description:	To save or unsave routes by clicking the "Heart" icon in Profile Page and in Saved Routes Page. Change in "Heart" icon color shows whether the route is saved or not. (i.e. Red color means Saved while Grey color means Not Saved). Saved routes will be reflected in the Saved Routes Page.
Preconditions:	User is authenticated and logged in.
	<ol><li>User navigates to the Profile Page using the navigation toolbar at the bottom of the pages.</li></ol>
Postconditions:	Users saved activities.
Priority:	Low
Frequency of Use:	Low
Flow of Events:	<ol> <li>The User successfully logs into his/her account.</li> <li>Users navigate to the Profile Page using the navigation toolbar at the bottom of the page.</li> <li>Scroll down to view top 3 recent activities, with newest activity displayed at the top.</li> <li>Click the "See More" button to view all ride activities.</li> <li>Users click the "Heart" buttons to save routes. Users can click the "Heart" button again to unsave activities.         <ol> <li>"Heart" will be red in color when saved.</li> <li>"Heart" will be grey in color when not saved.</li> </ol> </li> <li>Database updated to add or remove selected route to Saved Routes Page.</li> <li>System adds or removes the saved route to the Saved Routes Page.</li> </ol>
Alternative Flows:	<ol> <li>AF-S2: Unsave Routes from Saved Routes Page         <ol> <li>Users navigate to the Saved Routes Page using the navigation toolbar at the bottom of the page.</li> <li>Users can click the "Heart" button to unsave the ride. "Heart" button should turn red.</li> <li>Route will be removed from the Saved Routes Page.</li> </ol> </li> <li>AF-S2: Save Routes Immediately After Completing an Activity         <ol> <li>Upon successful completion of a ride activity, a pop-up: "Save Route?" and the "Heart" button will be displayed to allow the user to save the activity.</li> <li>Users can click the "Heart" button to save the ride. "Heart" button should turn red.</li> <li>Route will be added to the Saved Routes Page.</li> </ol> </li> </ol>
Exceptions:	None
Includes:	None

Special Requirements:	None
Assumptions:	None
Notes and Issues:	None

Use Case ID:	1.5		
Use Case Name:	ViewCyclingStatistics		
Created By:	Lim En Jia	Last Updated By:	Lim En Jia
Date Created:	28 January 2025	Date Last Updated:	28 January 2025

Actor:	User
Description:	Users can view the total ride distance, total ride time and total
	number of rides within every week, month and year.
Preconditions:	User is authenticated and logged in.
	2. User navigates to the Profile Page using the navigation
	toolbar at the bottom of the pages.
Postconditions:	Users view his/her cycling statistics and ride activities for the
	specified period of time.
Priority:	Medium
Frequency of Use:	High
Flow of Events:	1. The User successfully logs into his/her account.
	2. Users navigate to the Profile Page using the navigation
	toolbar at the bottom of the page.
	3. Cycling statistics and all ride activities for the week
	(default) are displayed.
Alternative Flows:	None
Exceptions:	EX1: No statistics available
	1. Empty page with message displayed "Start your first ride
	today!"
Includes:	None
Special Requirements:	None
Assumptions:	None
Notes and Issues:	None

Use Case ID:	1.5.2		
Use Case Name:	ViewPersonalBest		
Created By:	Lim En Jia	Last Updated By:	Lim En Jia
Date Created:	28 January 2025	Date Last Updated:	28 January 2025

Actor:	User

Description:	Users can view their ride achievements for specific distance or
	speed.
Preconditions:	1. User is authenticated and logged in.
	2. User navigates to the Profile Page using the navigation
	toolbar at the bottom of the pages.
Postconditions:	Users view his/her personal best rides.
Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	1. The User successfully logs into his/her account.
	2. Users navigate to the Profile Page using the navigation
	toolbar at the bottom of the page.
	3. User scrolls down to the Personal Best section of the Profile
	Page.
	4. Personal best ride activities are displayed according to
	distance and speed.
Alternative Flows:	None
Exceptions:	EX1: No statistics available
	Empty page with message displayed "Start your first ride
	today!"
Includes:	Users' own cycling statistics.
Special Requirements:	System compares all activities of users to determine personal bests.
Assumptions:	None
Notes and Issues:	None

Use Case ID:	1.5.3		
Use Case Name:	ViewRecentActivity		
Created By:	Bryan Goh	Last Updated By:	Lim En Jia
Date Created:	28 January 2025	Date Last Updated:	28 January 2025

Actor:	Registered User	
Description:	Users can view their top 3 most recent activities.	
Preconditions:	User is authenticated and logged in.	
	2. User navigates to the Profile Page using the navigation	
	toolbar at the bottom of the pages.	
Postconditions:	1. Users are able to view the top 3 most recent past ride	
	activities.	
Priority:	Low	
Frequency of Use:	High	
Flow of Events:	1. The User successfully logs into his/her account.	
	2. Users navigate to the Profile Page using the navigation	
	toolbar at the bottom of the page.	

	3. Past activities are displayed, with newest activities arranged at the top.
Alternative Flows:	None
Exceptions:	EX1: No statistics available
	1. Empty page with message displayed "Start your first ride
	today!"
Includes:	ViewCyclingStatistics
Special Requirements:	None
Assumptions:	None
Notes and Issues:	None

Use Case ID:	1.5.4		
Use Case Name:	ViewAllRideHistory		
Created By:	Lim En Jia	Last Updated By:	Lim En Jia
Date Created:	28 January 2025	Date Last Updated:	28 January 2025

Actor:	User
Description:	Users can view all past rides.
Preconditions:	User is authenticated and logged in.
	2. User navigates to the Profile Page using the navigation
	toolbar at the bottom of the pages.
Postconditions:	Users view all past ride activities.
Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	1. The User successfully logs into his/her account.
	2. Users navigate to the Profile Page using the navigation
	toolbar at the bottom of the page.
	3. Past activities are displayed, with most recent 3 activities
	arranged at the top of the Profile Page.
	4. Click the "See More" button below the recent 3 activities to
	view ALL past ride history.
Alternative Flows:	AF-S4: No more activities (only 3 activities that are already
	displayed).
	1. The 3 most recent activities are displayed.
Exceptions:	EX1: No statistics available
	Empty page with message displayed "Start your first ride
	today!"
Includes:	None
Special Requirements:	None
Assumptions:	None
Notes and Issues:	None

Use Case ID:	1.5.5		
Use Case Name:	DeleteRideHistory		
Created By:	Lim En Jia	Last Updated By:	Lim En Jia
Date Created:	28 January 2025	Date Last Updated:	28 January 2025

	**
Actor:	User
Description:	Users can delete past rides.
Preconditions:	User is authenticated and logged in.
	2. User navigates to the Profile Page using the navigation
	toolbar at the bottom of the pages.
Postconditions:	Users delete certain ride activities.
Priority:	Medium
Frequency of Use:	Low
Flow of Events:	The User successfully logs into his/her account.
	2. Users navigate to the Profile Page using the navigation
	toolbar at the bottom of the page.
	3. Past activities are displayed, with newest activities arranged
	at the top.
	4. Users click the "See More" button to view all ride history.
	5. Users click the 'Trash Bin' icon beside activities to delete
	them.
	6. Database updated to remove activities from user's profile.
	7. The ride history list is updated to remove the deleted
	activity.
Alternative Flows:	None
Exceptions:	EX1: No statistics available
	Empty page with message displayed "Start your first ride
	today!"
Includes:	ViewCyclingStatistics, ViewRecentActivity, ViewAllRideHistory
Special Requirements:	None
Assumptions:	None
Notes and Issues:	None

Use Case ID:	1.6.2		
Use Case Name:	StartActivityFromSaved		
Created By:	Bryan Goh	Last Updated By:	Bryan Goh
Date Created:	27/01/2025	Date Last Updated:	27/01/2025

Actor: User
-------------

Description:	Allows an User to start a cycling activity directly from their saved
	routes by clicking onto the saved route displayed on the Favorites
	page.
Preconditions:	User is authenticated and logged in.
Postconditions:	User is able to start a saved route.
Priority:	High
Frequency of Use:	High
Flow of Events:	1. The User successfully logs into his/her account.
	2. Users navigate to the Save Route Page using the navigation
	toolbar at the bottom of the page.
	3. The system lists all saved routes by the User.
	4. The User clicks onto any of the saved routes.
	5. The system routes and starts the cycling activity based on
	the saved "FROM" and "TO" destinations.
Alternative Flows:	None
Exceptions:	None
Includes:	None
Special Requirements:	None
Assumptions:	The system is able to connect to the database server 100% of the
	time.
Notes and Issues:	None

Use Case ID:	1.7.2.1		
Use Case Name:	ManageUserAccountSettings		
Created By:	Cheryl	Last Updated By:	Cheryl
Date Created:	11/02/2025	Date Last Updated:	11/02/2025

Actor:	User	
Description:	Allows a user to manage their user settings, which includes	
	changing their username, password, email address and profile	
	picture.	
Preconditions:	User is authenticated and logged in.	
	User is navigated to the Settings Page.	
Postconditions:	The user's profile settings are updated as per their selected	
	modifications.	
Priority:	High	
Frequency of Use:	Low	
Flow of Events:	1. The User successfully logs into his/her account.	
	2. The system displays the Main page of the system along with	
	a Navigation Bar on the bottom of the screen.	
	3. The User selects "Account Settings" on the Settings Page.	

- 4. The system prompts the User to select their desired account settings to change: Change Username, Change Email Address, Change Password, Change Profile Picture.
- 5. The User selects the desired option.
- 6. The system then prompts the user accordingly.
  - a. Change Username: The User enters a new username, the system verifies that the username entered is of valid format. If the user enters a username of valid format, the system queries the database to verify that the username is unique, before updating the database.
  - b. Change Email Address:
  - c. Change Password:
  - d. Change Profile Picture:
- 7. If the input is valid, the system modifies the respective user profile setting.
- 8. The system displays a success message and returns to the Account Settings page.

#### Alternative Flows:

AF-S7: If user enters a username that is not of valid format

- 1. The system returns to step 6 (Change Username)
- 2. The system highlights the Username entry box in red.
- 3. The system displays the message "Invalid username format! Please enter a username not containing any symbols except '.' and ' '!" under the entry box.

AF-S7: If user enters a non-unique username

- 1. The system returns to step 6 (Change Username)
- 2. The system highlights the Username entry box in red.
- 3. The system displays the message "Username in use. Please enter another unique username!" under the entry box.

AF-S7: If user enters a username that is not of valid format

- 1. The system returns to step 6.
- 2. The system highlights the Email entry box in red.
- 3. The system displays the message "Invalid username format! Please enter a valid email. For example: user01@gmail.com".

AF-S7: If user enters a password that is non-compliant with the password policy

- 1. The system returns to step 6.
- 2. The system highlights the Password entry box in red.
- 3. The system displays the message "Password entered is not strong enough! Please enter a password that contains at least 1 uppercase letter, 1 lowercase, 1 symbol (!@#\$%^&\*), and at least 8 characters long!" under the entry box.

AF-S7: If user uploads a file of invalid file format

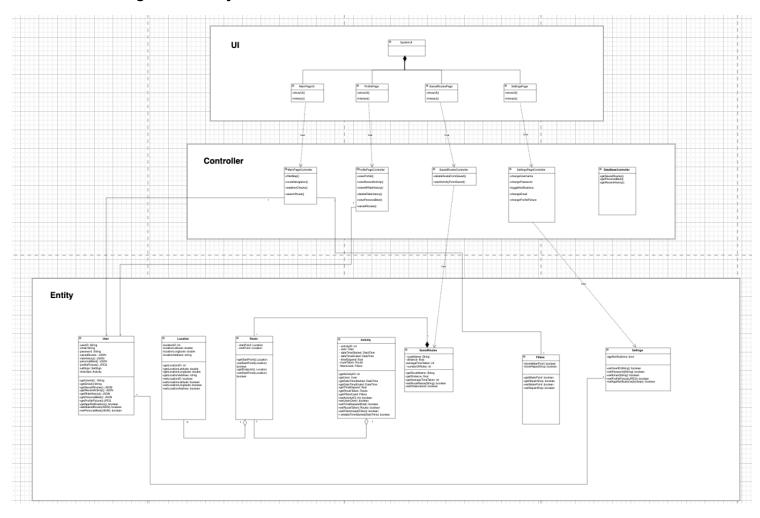
Exceptions:	<ol> <li>The system returns to step 6.</li> <li>The system highlights the File Upload entry box in red.</li> <li>The system displays the message "Incorrect file type! Please only upload .jpg, .jpeg, or .png files!" under the entry box.</li> <li>AF-S7: If user uploads a file of invalid file format</li> <li>The system returns to step 6.</li> <li>The system highlights the File Upload entry box in red.</li> <li>The system displays the message "File too large! Please upload a file under 2MB!" under the entry box.</li> </ol> EX1: If the system is not able to locate the file in the file path that the User specified
	<ol> <li>The system returns to step 6.</li> <li>The system highlights the File Upload entry box in red.</li> <li>The system displays the message "Could not find <file_path>!"</file_path></li> </ol>
Includes:	None
Special Requirements:	None
Assumptions:	The system is able to connect to the database server 100% of the time.
Notes and Issues:	None

Use Case ID:	1.9.4.1		
Use Case Name:	ToggleNotification		
Created By:	Bryan Goh	Last Updated By:	Bryan Goh
Date Created:	27/01/2025	Date Last Updated:	27/01/2025

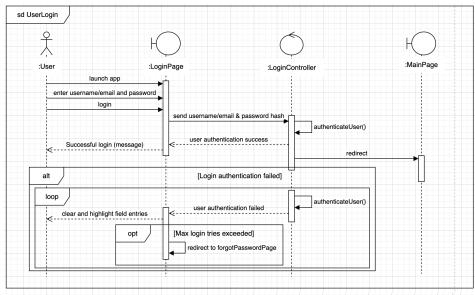
Actor:	User	
Description:	Allows an User to change his/her preference to allow the system to	
	push notifications	
Preconditions:	User is authenticated and logged in and navigated to the Settings	
	Page	
Postconditions:	Notification preference is toggled	
Priority:	High	
Frequency of Use:	Low	
Flow of Events:	1. The User clicks on "system Settings" in the Settings Page.	
	2. The system displays a Push Notification toggle switch.	
	3. The User clicks onto the toggle switch	
	4. If the Push Notification toggle switch is switched ON	
	initially, the system will turn OFF notification pushing for	
	the user.	

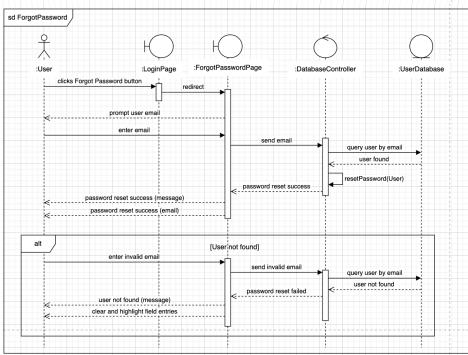
Alternative Flows:	AF-S3: If the Push Notification toggle switch is switched OFF initially	
	1. The system will turn ON notification pushing for the user.	
Exceptions:	None	
Includes:	None	
Special Requirements:	None	
Assumptions:	None	
Notes and Issues:	None	

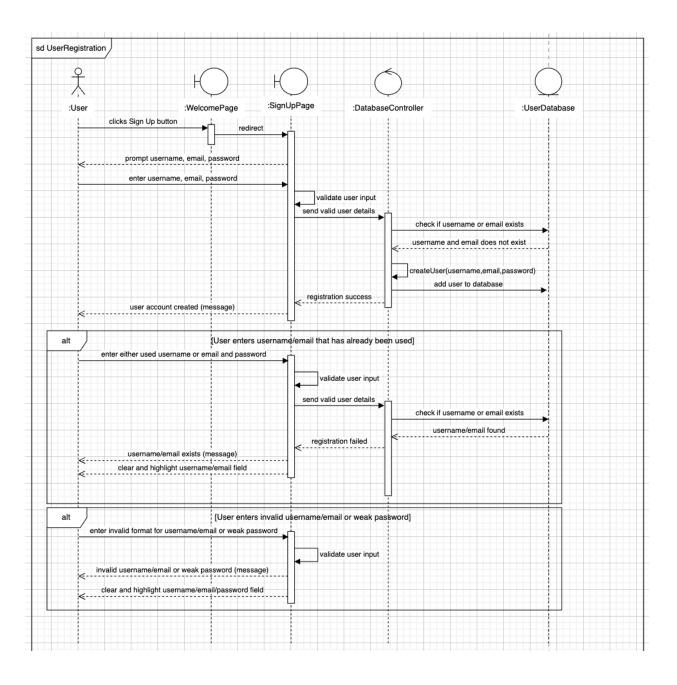
# **Class Diagram of Entity Classes**

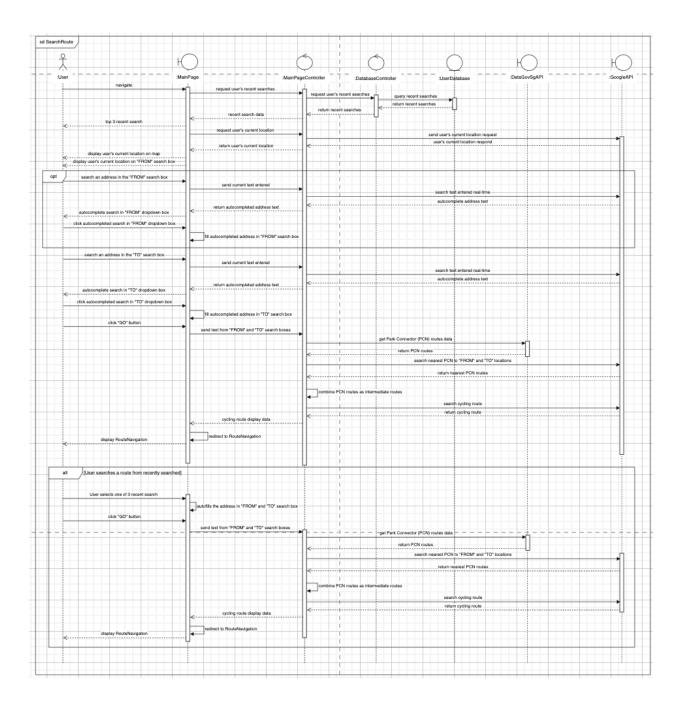


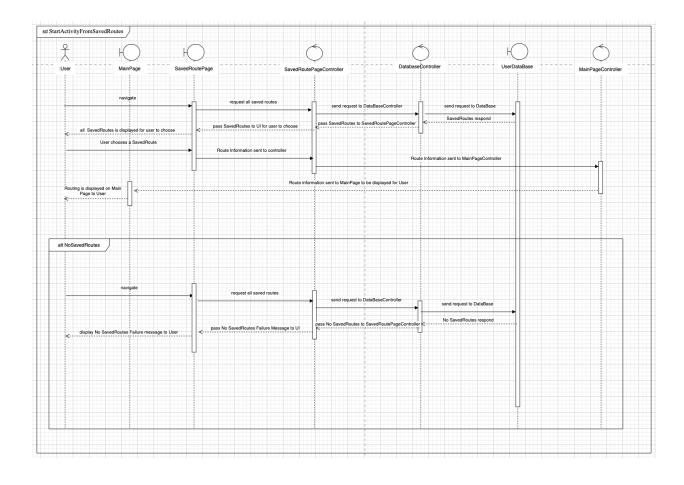
### **Sequence Diagrams of some Use Cases**

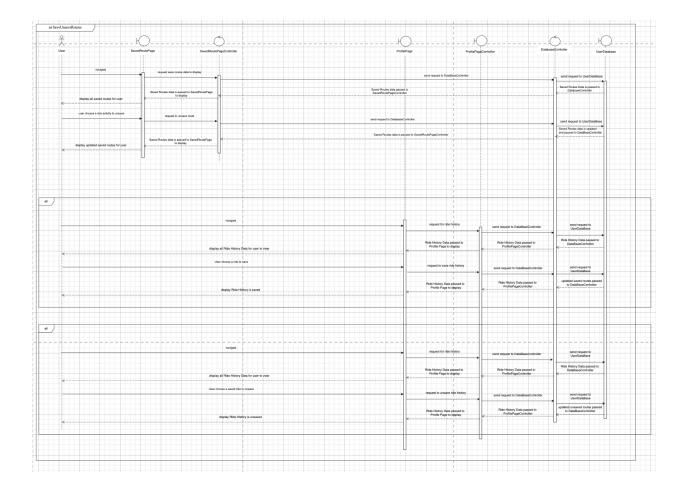


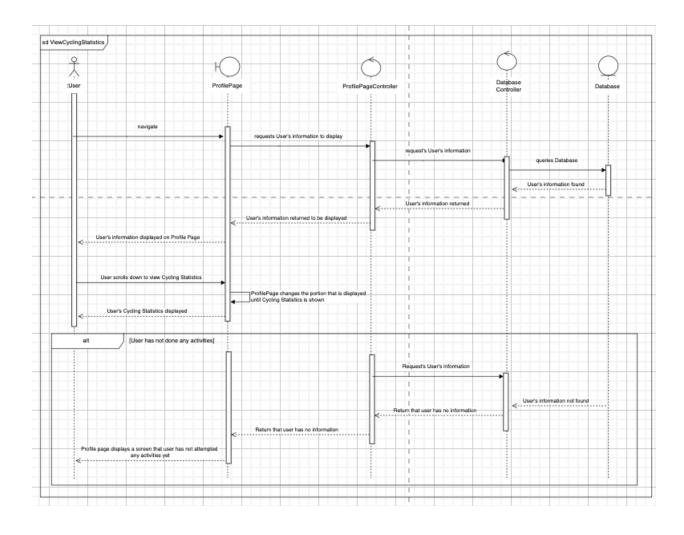




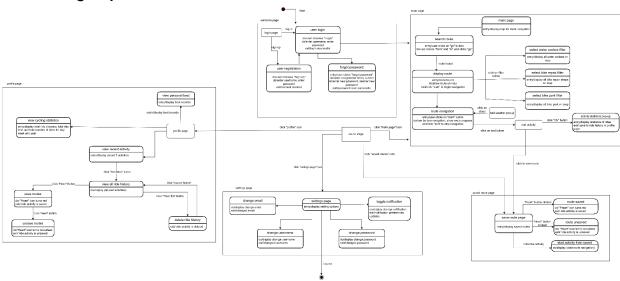








# Initial Dialog Map



### **Key Boundary Classes and Control Classes**

