
Use Case with Descriptions

**for
WasteWise**

Version 1.0 approved

Prepared by

Nur Shaqilah Izyan Binte Rosli
Cheng Yi Hsuen
Yoon Wonyeong
Feng Yukun
Gladys Woo Hui Min
Sum Sze Wai Prisca
Manikandan Praveen Kannappan

Nanyang Technological University Team 1

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Revision History

Name	Date	Reason For Changes	Version

1. System Features

1.1 Visualization

4.1.1 Description

All parties can view visualizations of the different waste collection services available in different regions across Singapore.

4.1.2 Use Case

Use Case ID:	VIS1		
Use Case Name:	Visualization		
Created By:	Nur Shaqilah Izyan Binte Rosli	Last Updated By:	
Date Created:	26/08/2024	Date Last Updated:	

Actor:	Public User
Description:	User can filter the map & list based on the region selected to display waste collection services in that area.
Preconditions:	System must be able to retrieve data to display the map & list.

Postconditions:	User are able to view the locations of various waste collection services according to the selected geographic area.
Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"> 1. User navigates to Visualisations Page 2. By default, system will display all of the different waste collection services across Singapore (using government waste collector dataset) 3. User selects a particular region (All Regions/East / West / Central / North / North-East) 4. System retrieves exact data for that region and updates the visualisation to reflect waste collection services in that area.
Alternative Flows:	<p>VIS1.AC.1 If selected region has no waste collection services</p> <ol style="list-style-type: none"> 1. System displays “No waste collection services available in this area” 2. User can choose to view another region or access other functionalities.
Exceptions:	<p>VIS1.EX.1 If data cannot be retrieved/displayed</p> <ol style="list-style-type: none"> 1. System displays “Unable to display data. Please try again later.” 2. User is to wait till the data loads. If problem persists, contact support. 3. User can choose to view another region or access other functionalities.
Includes:	NIL

Special Requirements:	NIL
Assumptions:	<ol style="list-style-type: none"> 1. The data retrieved is up-to-date. 2. The user is connected to the Internet. 3. User browser supports map api.
Notes and Issues:	NIL

4.1.3 Functional Requirements

1. The system must display a map & list showing all the waste collection services across Singapore by default when the user accesses the Visualisations Page.
 - 1.1. The system should display an error message: “Unable to display data. Please try again later.” if the map or list fails to appear.
2. The system must display a drop-down list of geographic regions (All Regions/North/East/West/North-East/Central) for the user to select.
 - 2.1. Upon user’s selection, the system must retrieve the exact data for the selected region.
 - 2.2. The system must then update the map & list to display the waste collection services located in the selected region.
 - 2.3. The system should display a message: “No waste collection services available in this area.” if there are no waste collection services available in the selected region.
 - 2.4. In the case where the data could not be retrieved, the system should display an error message: “Unable to display data. Please try again later.”

1.2 Search (By Name)

4.2.1 Description

Users can search for a specific waste collector by entering the collector’s name. The results will show the details/information of a particular waste collector, including contact number, address, and the class of licensed.

4.2.2 Use Case

Use Case ID:	SEA1		
Use Case Name:	Search (By Name)		
Created By:	Cheng Yi Hsuen	Last Updated By:	
Date Created:	26/08/2024	Date Last Updated:	

Actor:	Public User
Description:	Users can search for a specific waste collector by entering the collector's name. The results will show the details/information of a particular waste collector, including contact number, address, and the class of licensed.
Preconditions:	The waste collector must be registered in the platform's database.
Postconditions:	The system lists waste collectors matching the search query, and the user can view and select a specific collector for more details.
Priority:	High
Frequency of Use:	High
Flow of Events:	<ol style="list-style-type: none"> 1. The user navigates to the search page. 2. The user enters the name of the waste collector in the search field.

	<ol style="list-style-type: none"> 3. The system query the database (government waste collectors dataset) to retrieve relevant waste collectors. 4. The system lists the matching collector(s) from the database. 5. The user clicks on the collector they intend to search. 6. The system displays the collector details to the user.
Alternative Flows:	<p>SEA1.AC.1 If no matching collector is found</p> <ol style="list-style-type: none"> 1. The system will display a "Waste Collector Not Found" message in real-time. 2. Users will modify their searches.
Exceptions:	<p>SEA1.EX.1 If data cannot be retrieved/displayed</p> <ol style="list-style-type: none"> 1. System displays "Unable to display data. Please try again later." 2. User is to wait till the data loads. If problem persists, contact support. 3. User can choose to access other functionalities.
Includes:	Display Information
Special Requirements:	NIL
Assumptions:	<ol style="list-style-type: none"> 1. The data retrieved is up-to-date. 2. The user is connected to the Internet.
Notes and Issues:	NIL

4.2.3 Functional Requirements

1. The system must provide a search functionality for users to find waste collectors by name.

1.1 The system must display a text field labeled "Name of Waste Collector" where users can input the name of collectors.

- 1.2 The system must query the database for the collectors which have string match with the user input.
- 1.3 The system must provide a real-time search suggestions list as the user types the names of collectors.
- 1.4 The system must allow users to select a collector by pressing the "Enter" key when the bar is on the selected collector or clicking the bar of the collector.
- 2. The system must retrieve and display the details of the waste collector when the collector is selected.
 - 2.1 The system must query the database for the collector selected by the user.
 - 2.2 The system must display collector information for the matching collector.
- 3. The system must display a "Waste Collector Not Found" message if no matching company is found in the database on any point of words typed.

1.3 Search (By Filters)

4.3.1 Description

Users can filter waste collectors based on the location of the collectors, the specific class of waste they are licensed to collect or both filters. This feature helps users find the waste collection service in a certain region and/or collectors that handle a specific type of waste.

4.3.2 Use Case

Use Case ID:	SEA2		
Use Case Name:	Search (By Filters)		
Created By:	Cheng Yi Hsuen	Last Updated By:	
Date Created:	26/08/2024	Date Last Updated:	

Actor:	Public User
Description:	The user applies filters based on location and/or class of license to find relevant waste collectors.
Preconditions:	The waste collector must be registered in the platform's database with its location data and class of license.
Postconditions:	The system presents a list of waste collectors that match the selected filters, allowing the user to choose a collector for detailed information.
Priority:	High
Frequency of Use:	High
Flow of Events:	<ol style="list-style-type: none"> 1. The user navigates to the filtering page. 2. The user enters a location or part of address. 3. The user selects a license class (e.g. A, A &B). 4. The user clicks on the search button. 5. The system must query the database (government waste collectors dataset) for the collector with matching criteria input by the user. 6. The system retrieves database and displays a list of collectors that match the criteria. 7. The user clicks on a collector in the list to view detailed information about that collector. 8. The system displays the collector details to the user.
Alternative Flows:	<p>SEA2.AC.1 If no company matches the filters</p> <ol style="list-style-type: none"> 1. The system will display a "No results found" message. 2. Users will modify the filters to search.

Exceptions:	SEA2.EX.1 If data cannot be retrieved/displayed 1. System displays “Unable to display data. Please try again later.” 2. User is to wait till the data loads. If problem persists, contact support. 3. User can choose to access other functionalities.
Includes:	Display Information
Special Requirements:	NIL
Assumptions:	1. The data retrieved is up-to-date. 2. The user is connected to the Internet.
Notes and Issues:	NIL

4.3.3 Functional Requirements

1. The system must provide filtering options to allow users to search for waste collectors based on location and waste class.
 - 1.1 The system must display a text field labelled "Enter Location" where users can input their location.
 - 1.2 The system must provide buttons labelled A, B, and C for users to click on to turn on the filters of the selected license class.
 - 1.3 The system must contain a hint icon next to the buttons of the license class that shows the predefined waste class options corresponding with their license class when the user hovers over the icon.
 - 1.4 The system must allow users to apply one or both filters (location and license class) to the search query.
 - 1.5 The system must allow users to reset the filters with a "Reset" button.
2. The system must query and retrieve the database and display a list of collectors that match the selected filters after the user clicks on the search button.

- 2.1 The system must query the database for collectors that match the selected location and/or license class.
- 2.2. The system must display all possible collectors of the chosen filter and if the filter is blank, it will show all possible collectors by default.
- 2.3. The system must allow users to select a collector by pressing the "Enter" key when the bar is on the selected collector or clicking the bar of the collector.
- 2.4. The system must display a "No results found" message if no collectors match the selected filters.
- 3. The system must retrieve and display the details of the waste collector when a collector is selected by the user.
 - 3.2. The system must query the database for the collector selected by the user.
 - 3.1 The system must display collector information for the matching collector.

1.4 Display Information

4.4.1 Description

Once a waste collector is selected from the search results, the system displays detailed information about that collector.

4.4.2 Use Case

Use Case ID:	DIS1		
Use Case Name:	Display Information		
Created By:	Cheng Yi Hsuen	Last Updated By:	
Date Created:	26/08/2024	Date Last Updated:	

Actor:	Public user
Description:	After selecting a waste collector from the search results, the user views the detailed information about the collector, which includes contact number, location, and license class.
Preconditions:	The waste collector must be registered in the platform's database.
Postconditions:	The user is presented with comprehensive details of the selected waste collector.
Priority:	High
Frequency of Use:	High
Flow of Events:	<ol style="list-style-type: none"> 1. The system retrieves the database for the detailed information of the selected waste collector from the database (government waste collector dataset and system database). 2. The system displays the following information to the user: <ol style="list-style-type: none"> a. Contact number b. Address c. License class d. Ratings e. Comments
Alternative Flows:	NIL
Exceptions:	<p>DIS1.EX.1 If data cannot be retrieved/displayed</p> <ol style="list-style-type: none"> 1. System displays “Unable to display data. Please try again later.” 2. User can choose to access other functionalities.

Includes:	NIL
Special Requirements:	NIL
Assumptions:	<ol style="list-style-type: none"> 1. The data retrieved is up-to-date. 2. The user is connected to the Internet.
Notes and Issues:	NIL

4.4.3 Functional Requirements

1. The system must retrieve and display data/information for a selected waste collector.
 - 1.1 The system must show the contact numbers associated with the waste collector.
 - 1.2 The system must display the location of the waste collector in a physical address.
 - 1.3 The system must display the license class of the waste collector.

1.5 Rating Directory

4.5.1 Description

General user can provide feedback on waste collector by rating their services, leaving comments and making reports.

4.5.2 Use Case

Use Case ID:	RAT1		
Use Case Name:	Rating directory		
Created By:	Yoon Wonyeong	Last Updated By:	

Date Created:	26/08/2024	Date Last Updated:	
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Actor:	General User
Description:	A general user can rate a waste collector and leave a comment based on their experience with them. User can also report illegal collector to associated regulation
Preconditions:	<ol style="list-style-type: none"> 1. General User must be logged in and have used the waste 2. The waste collector must be listed in the directory
Postconditions:	<ol style="list-style-type: none"> 1. The rating and comment are stored in the system and correctly associated with the corresponding waste collector 2. The rating contributes to the collector's overall score 3. Reported illegal collector will be added to reported collectors list.
Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"> 1. General Users navigate to directory entry of the desired waste collection company 2. General users write a comment in the provided text box 3. General Users input the rating out of 5 4. General Users submit the rating and the comment 5. System stores the rating in the database and updates the company's listing

Alternative Flows:	<ol style="list-style-type: none"> 1. If public user is not logged in, they are prompted to log in 2. If the general user does not input rating or comment, they are prompted to input the necessary fields. 3. General Users can choose to report illegal collector using report button
Exceptions:	If the system fails to save the rating or comment, an error message is displayed and the user is prompted to retry
Includes:	NIL
Special Requirements:	NIL
Assumptions:	<ol style="list-style-type: none"> 1. The data retrieved is up-to-date. 2. The user is connected to the Internet.
Notes and Issues:	NIL

4.5.3 Functional Requirements

1. The system shall allow users to leave a rating
 - 1.1. General User can select a rating between 1 and 5 stars for a given waste collector
 - 1.2. General User will be provided with a text box to enter comments about their experience with the collector
2. The system shall store the rating in the database
 - 2.1. System shall associate the rating and comment with the corresponding collector in the database
 - 2.2. Failure in storing the data will prompt the user to retry
3. The system shall ensure that only logged-in users can submit ratings and comments
 - 3.1. System shall prompt the user to log in if not logged in
4. The system shall allow for reporting of illegal collector
 - 4.1. System shall mark the associated collector with blacklist
 - 4.2. System shall store the blacklist

1.6 Display Activities Done

4.6.1 Description

General users are able to view a table record of the activities they have partaken in, such as rating, commenting, and reporting.

4.6.2 Use Case

Use Case ID:	DAD1		
Use Case Name:	Display Activities Done		
Created By:	Nur Shaqilah Izyan Binte Rosli	Last Updated By:	
Date Created:	30/8/2024	Date Last Updated:	

Actor:	General User
Description:	General users are able to view a table displaying their past activities. These activities include any past reports, comments, ratings made by the user, specifying the date and time.
Preconditions:	The general user must be logged in.
Postconditions:	The user should be able to view the table of past activities in an understandable format.

Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"> 1. User navigates to Activities Page 2. The system will retrieve the information from the database and display a table of activities done by the user, including any comments, ratings, reports made. 3. For reports, the system should display a 'Remarks' section to inform the user whether the reported collector has been investigated: 'Contacted' or 'Not Contacted'.
Alternative Flows:	<p>DAD1.AC.1 If no activities has been done by the user</p> <ol style="list-style-type: none"> 1. System will display "No activities done. Any comments/ratings/reports made will be shown here." 2. User can choose to rate, comment, report or access other functionalities.
Exceptions:	<p>DAD1.EX.1 If activities data cannot be retrieved/displayed</p> <ol style="list-style-type: none"> 1. System displays "Unable to display activities done. Please try again later." 2. User is to refresh the page till the data loads. If problem persists, contact support. 3. User can choose to access other functionalities.
Includes:	NIL
Special Requirements:	NIL
Assumptions:	<ol style="list-style-type: none"> 1. The data retrieved is up-to-date.

	2. The user is connected to the Internet.
Notes and Issues:	NIL

4.6.3 Functional Requirements

1. The system must retrieve the data from the system database and display a table showing all the activities done by the user when the user accesses the Activities Page.
 - 1.1. If the user has past activities, the system must display a table of the following:
 - i. Serial Number (S/N)
 - ii. The type of activity
 - iii. Content of activity
 - iv. The time and date of activity
 - v. Remarks
 - 1.2. If the user does not have any past activities, the system must display “No activities done. Any comments/ratings/reports made will be shown here.”
 - 1.3. The system should display an error message: “Unable to display activities done. Please try again later.” if the table fails to appear.

1.7 User Registration

4.7.1 Description

Allow non logged users from different domains to register for an account. Proper particulars such as domain, email address, username and password are needed.

4.7.2 Use Case

Use Case ID:	REG1		
Use Case Name:	User Registration		
Created By:	Feng Yukun	Last Updated By:	Feng Yukun

Date Created:	27/08/2024	Date Last Updated:	31/08/24
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Actor:	Public user
Description:	Allow non logged users from different domains to register for a general user account. Proper particulars such as email address, username and password are needed.
Preconditions:	User is not logged in.
Postconditions:	User successfully registered and the system will automatically log the user in.
Priority:	High
Frequency of Use:	High
Flow of Events:	<ol style="list-style-type: none"> 1. User clicks the “Sign up” button. 2. System prompts the user to enter email address, name, password and confirm password. 3. User enters all fields required and clicks “Sign up”. 4. Validation from the system to check if the user’s email, username, and other fields are unique and valid. 5. System stores fields in the database. 6. System prompts the “registration successful” message. 7. System log the user in.
Alternative Flows:	REG1.AC.1 If the email address is taken by other user

	<ol style="list-style-type: none"> 1. System prompts “ Email address is already registered. Do you want to proceed to login?” 2. System returns to step 2. <p>REG1.AC.2 If the password doesn’t meet the requirements</p> <ol style="list-style-type: none"> 3. System prompts “ Passwords do not meet the requirements” 4. System returns to step 2. <p>REG1.AC.3 If the confirm password is different with password</p> <ol style="list-style-type: none"> 5. System prompts “ Confirm password should be the same.” 6. System returns to step 2. <p>REG1.AC.4 If user chooses to register as collector</p> <ol style="list-style-type: none"> 1. System prompts a new page for user. 2. System prompts the user to enter email address, name, password and confirm password. 3. System prompts the user to choose the directory entry they belong to. 4. User enters all fields required and clicks “Sign up”. 5. System returns to step 4.
Exceptions:	NIL
Includes:	NIL
Special Requirements:	NIL
Assumptions:	<ol style="list-style-type: none"> 1. The data retrieved is up-to-date. 2. The user is connected to the Internet.
Notes and Issues:	NIL

4.7.3 Functional Requirements

1. User is able to register as general user
 - 1.1. Regulator should be pre-registered in the backend and cannot be created by this function.
 - 1.2. Collector users should be registered on a separate page.
 - 1.3. The system must display all fields needed to be entered
 - 1.3.1. The text field consists of email.
 - 1.3.2. The text field consists of name.
 - 1.3.3. The text field consists of password.
 - 1.3.4. The text field consists of confirm password.
 - 1.3.5. When users want to register as a collector, the field should include the directory they belong to.
 - 1.3.5.1. Directory entry is selected by a drop-down list.
 - 1.4. Every field should be filled before “Sign up” button can be clicked
 - 1.5. The system must verify every field when user click “Sign up” button
 - 1.5.1. Email given should be a valid email address
 - 1.5.2. Email given should be never used by other existing users.
 - 1.5.3. Name can be used by other users because it won’t be used as a login field.
 - 1.5.4. Password should be at least 8 characters and at most 16 characters
 - 1.5.5. Password should contain at least one uppercase character and one special character
 - 1.5.6. When certain fields is invalid, the system should prompt error messages describing the reason.
 - 1.6. When all fields are unique and valid, the system should register the user.
 - 1.6.1. The system should store all fields in database
 - 1.6.1.1. The password should be stored after hash encryption
 - 1.6.2. The system should login the user and return to the original page.

1.8 User Login

4.8.1 Description

Allow registered users to log in when they are not logged in. Before performing restricted actions, such as users rating the collectors, collectors updating particulars, and regulator processing reported cases, users must log in.

4.8.2 Use Case

Use Case ID:	LOG1		
Use Case Name:	User Login		
Created By:	Feng Yukun	Last Updated By:	Feng Yukun
Date Created:	27/08/2024	Date Last Updated:	31/08/2024

Actor:	Public user (login to become General User, Regulator, Waste Collector)
Description:	Allow registered users to log in when they are not logged in. Before performing restricted actions, such as users rating the collectors, collectors updating particulars, and regulator processing reported cases, users must log in.
Preconditions:	User is not logged in.
Postconditions:	User successfully logs in.
Priority:	High
Frequency of Use:	High
Flow of Events:	<ol style="list-style-type: none"> 1. User enters domain, with email and password into text fields. 2. The system validates to verify the user's credentials (email and password). 3. System logs the user in and jumps to the the home page.

Alternative Flows:	<ol style="list-style-type: none"> 1. LOG1.AC.1 If the email cannot be found in database <ol style="list-style-type: none"> a. System prompts “ Incorrect email address or password!” b. System returns to step1. 2. LOG1.AC.2 If the password is not correct <ol style="list-style-type: none"> a. System prompts “ Incorrect email address or password!” b. System returns to step1. 3. LOG1.AC.3 If domain is not correct <ol style="list-style-type: none"> a. System prompts “ User in the domain cannot be found!” b. System returns to step1.
Exceptions:	NIL
Includes:	NIL
Special Requirements:	NIL
Assumptions:	<ol style="list-style-type: none"> 1. The data retrieved is up-to-date. 2. The user is connected to the Internet.
Notes and Issues:	NIL

4.8.3 Functional Requirements

1. User must be able to login to the system
 - 1.1. The system must display text fields for users to enter.
 - 1.1.1. The fields should consist of domain
 - 1.1.1.1. The domain should be selected by a dropdown list.
 - 1.1.2. Text fields should consist of email address.
 - 1.1.3. Text fields should consist of password.
 - 1.2. Every field should be filled before “Sign up” button can be clicked
 - 1.3. The system must validate to verify every field when user click “Login” button
 - 1.3.1. Domain should be the same in the database.
 - 1.3.2. Email address should be existing in the database.

- 1.3.3. Password should be the same in the database.
 - 1.3.3.1. Password should be compared after hash encryption
- 1.4. When certain fields are not valid, the system should prompt error messages.
 - 1.4.1. When email is not found in the database, the system prompts “ Incorrect email address or password!”
 - 1.4.2. When the password is not correct, the system prompts “ Incorrect email address or password!”
 - 1.4.3. When the domain is not correct, the system prompts “ User in the domain cannot be found!”
- 1.5. When all fields are valid, the system should register the user.
 - 1.5.1. The system should login the user and return to the original page.

1.9 Update User Profile

1.9.1 Description

Users are able to edit their profile, including name and email address. They are also able to change their passwords.

1.9.2 Use Case

Use Case ID:	UUP1		
Use Case Name:	Update User Profile		
Created By:	Feng Yukun	Last Updated By:	Feng Yukun
Date Created:	29/08/2024	Date Last Updated:	31/08/2024

Actor:	General User
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Description:	Users are able to edit their profile, including name and email address. They are also able to change their passwords.
Preconditions:	1. General users must be logged in
Postconditions:	1. General users have updated their profile
Priority:	High
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none">1. Users login to the system2. Users clicks the “profile” button3. System shows every text field that users can edit4. Users edit fields they intend to update5. Users submit the update6. System saves changes to database
Alternative Flows:	<ol style="list-style-type: none">1. UUP1.AF-1 If user is not logged in, they are prompted to log in before proceeding
Exceptions:	NIL
Includes:	NIL
Special Requirements:	NIL
Assumptions:	<ol style="list-style-type: none">1. The user is connected to the Internet.

Notes and Issues:	NIL
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1.9.3 Functional Requirements

1. Users must be able to change their profile.
 - 1.1. Users must be able to change their names
 - 1.2. Users must be able to change their email account
 - 1.2.1. New email account must not be used by other users
 - 1.3. Users must be able to change their password.
 - 1.3.1. Old password is required when changing password.
 - 1.3.2. New password should be stored after hash encryption.
2. System saves changes to the database.

1.10 Close Reported Case

1.10.1 Description

Once reported cases have been checked through, the regulators can close the case. Closing the case which has been verified ensures that all reported cases are regularly regulated and updated.

1.10.2 Use Case

Use Case ID:	CRC1		
Use Case Name:	Close Reported Case		
Created By:	Gladys Woo Hui Min	Last Updated By:	
Date Created:	30/08/2024	Date Last Updated:	

Actor:	Regulator
Description:	Regulator closes the reported case once verified.
Preconditions:	<ol style="list-style-type: none"> 1. Regulator must be logged in 2. Waste collector must be registered in the system 3. Case must be submitted by Case User
Postconditions:	<ol style="list-style-type: none"> 1. Update collector with new rating and close case
Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"> 1. Regulator is in the page of selected case 2. Regulator looked through and verified accuracy and severity 3. Regulator evaluates based on severity and type of case (e.g., does not follow protocol, does not dispose correctly) 4. Regulator toggles on button “Contact” and “Contacted” once user is contacted on the updates 5. Regulator close case through “Close Case” button 6. Case is deleted from the system database
Alternative Flows:	<ol style="list-style-type: none"> 1. CRC1.AF-1 If regulator is not logged in, they are prompted to log in before proceeding 2. CRC1.AF-2 Case has to be closed otherwise follow-up is required.
Exceptions:	NIL
Includes:	NIL

Special Requirements:	NIL
Assumptions:	<ol style="list-style-type: none"> 1. The data retrieved is up-to-date. 2. The user is connected to the Internet.
Notes and Issues:	NIL

1.10.3 Functional Requirements

1. Regulator is in the page of the selected case showing comments and ratings of the reported waste collector
2. Regulator sees the details of user who reported and the collector
3. Button toggles between “Contact” and “Contacted” for regulator to indicate whether they have contacted the user for updates on the reported case
4. Regulator close case through “Close Case” button
5. Case raised is deleted from the system database

1.11 Remove Reported Collector

1.11.1 Description

Regulators can remove reported waste collectors if found to be unregulatory. Reasons have to be made clear before submitting the removal.

1.11.2 Use Case

Use Case ID:	RRC1		
Use Case Name:	Remove Reported Collector		
Created By:	Gladys Woo Hui Min	Last Updated By:	

Date Created:	30/08/2024	Date Last Updated:	
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Actor:	Regulator
Description:	Regulator removes the reported collector with reasons attached.
Preconditions:	<ol style="list-style-type: none"> 1. Regulator must be logged in 2. Waste collector must be registered in the system 3. Case must be submitted by Case User
Postconditions:	<ol style="list-style-type: none"> 1. Update collector with new rating and close case
Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"> 1. Regulator pressed “Remove” button 2. Regulator types in reason for removing waste collector in a text box 3. Regulator submits through a “Submit” button and collector is removed from the system database 4. System sends an email containing the reason for removal attached from the text box to the email of the collectors.
Alternative Flows:	<ol style="list-style-type: none"> 1. RRC1.AF-2 If text box is empty, prompt regulator to enter reason 2. RRC1.AF-3 Case has to be submitted otherwise collector is not removed.

Exceptions:	NIL
Includes:	NIL
Special Requirements:	NIL
Assumptions:	<ol style="list-style-type: none"> 1. The data retrieved is up-to-date. 2. The user is connected to the Internet.
Notes and Issues:	NIL

1.11.3 Functional Requirements

1. Regulator is in the page of the selected case and clicks on “Report” button
2. Regulator types in reason for removing waste collector in a text box
3. Regulator submits the case through a “Submit” button
4. Case submitted for removal of collector is deleted from the system database
5. Waste collector is removed from the system.

1.12 Update Collector Profile

1.12.1 Description

Waste collection collectors are able to view the account they created and make edits to it. They can change their personal information(eg. name, address, license grade) in the system.

1.12.2 Use Case

Use Case ID:	UPC1
Use Case Name:	Update Collector Profile

Created By:	Sum Sze Wai Prisca	Last Updated By:	Sum Sze Wai Prisca
Date Created:	26/08/2024	Date Last Updated:	30/08/2024

Actor:	Waste collector
Description:	Collectors can make changes to their account particulars
Preconditions:	Collectors must be logged in and able to access their profile
Postconditions:	Collectors' details should be successfully updated
Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none">1. Collector navigates to profile page2. System displays current profile details (e.g. Collector Name, Address)3. If collector wishes to make any changes or merge, they can do so by pressing 'Edit' button4. The system provides editable fields for the collector to update their information.5. The collector makes the necessary changes to the particulars by typing in the text fields.6. The collector submits the changes by pressing the 'Save' button.7. System saves changes to database.

	8. The system updates the profile with a message “Saved successfully.”
Alternative Flows:	UPC1.AC.1 If the collector does not wish to make changes they can return to the previous page by clicking the ‘Cancel’ button.
Exceptions:	UPC1.EX.1 If changes are not saved (unsuccessful) 1. System displays an error message ‘Update unsuccessful!’ 2. Collector is prompted to try again.
Includes:	NIL
Special Requirements:	NIL
Assumptions:	1. The data retrieved is up-to-date. 2. The user is connected to the Internet.
Notes and Issues:	NIL

1.12.3 Functional Requirements

1. The collectors and public must be able to see all the collectors’ profile details.
 - 1.1. The system must have a page to display the collector’s name, address, contact number and type of license grade
2. The system must include an ‘Edit’ button at the top of the profile page.
 - 2.1. When the ‘Edit’ button is clicked:
 - 2.1.1. The system must switch to ‘Edit’ mode, enabling editable fields for the user.
 - 2.1.2. The system must display input fields for modifying the collector name, address, contact number, type of license grade.
 - 2.2. In ‘Edit’ mode, the system must include:
 - 2.2.1. A ‘Save’ button to confirm and apply changes.
 - 2.2.2. A ‘Cancel’ button to discard changes and revert to the view-only mode.

3. The system must be able to detect any errors in saving updated information and display the message ‘Update unsuccessful!’
4. After the system successfully saves changes to database, the system must provide a confirmation message indicating that the profile has been updated.
 - 4.1. The updated profile details must be immediately reflected on the profile page.
 - 4.2. The system must show the message ‘Update successful’.

1.13 List Reports

1.13.1 Description

Regulators can use the ‘list reports’ functionality to list and view the reports of collectors made by users and sort the reports accordingly. Regulators can view the specific details of each report in the search result if needed.

1.13.2 Use Case

Use Case ID:	LR1		
Use Case Name:	List Reports		
Created By:	Manikandan Praveen Kannappan	Last Updated By:	
Date Created:	26/08/2024	Date Last Updated:	

Actor:	Regulator
Description:	Regulator can list reports created by users, for decision making and administrative purposes, and sort the reports accordingly. Regulator can also view specific details of a report in the list view

Preconditions:	<ol style="list-style-type: none"> 1. Regulator must be logged in 2. Case should not be a closed/removed case 3. Report should have been submitted by a user beforehand
Postconditions:	NIL
Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"> 1. Regulator is in the home page and clicks on 'Reports' 2. The regulator is redirected to another display which shows the list of all active reports made by users 3. Regulator chooses to sort the list of reports by either 'date created', 'user' who made the report, or the reported 'collector' 4. Regulator chooses whether to sort the selected filter in 'ascending' or 'descending' order 5. Regulator selects a particular report to view more specific details
Alternative Flows:	LR1.AC.1 There are no active reports made by users and the system displays 'No active reports currently!' when regulator clicks on 'Reports'
Exceptions:	NIL
Includes:	NIL
Special Requirements:	NIL

Assumptions:	<ol style="list-style-type: none"> 1. The data retrieved is up-to-date. 2. The user is connected to the Internet.
Notes and Issues:	NIL

1.13.3 Functional Requirements

1. Ensure the system has a 'Reports' button for the regulator to click on in the home page
 - 1.1. When the 'Reports' button is clicked:
 - 1.1.1. If there are active reports, the system displays the list of active reports with default sorting
 - 1.1.1.1. Ensure the system allows the regulator to sort the reports based on either of the following fields: 'date created', 'user', or 'collector'
 - 1.1.1.1.1. Regulator can sort the fields in either 'ascending' or 'descending' order
 - 1.1.1.2. Ensure the system allows regulator to 'view report' for specific details of a particular report
 - 1.1.2. If there are no active reports, the system displays a warning message 'No active reports currently!'

1.14 User Logout

1.14.1 Description

Allow users of the system to log out after logging in to their account and performing desired actions.

1.14.2 Use Case

Use Case ID:	UL1
Use Case Name:	User Logout

Created By:	Manikandan Praveen Kannappan	Last Updated By:	
Date Created:	26/08/2024	Date Last Updated:	

Actor:	General User, Regulator, Waste Collector
Description:	Users of the system can log out after logging in to their account and performing any desired actions.
Preconditions:	1. System user must be logged in
Postconditions:	NIL
Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"> 1. User clicks on 'Log Out' button at the top right corner of the page 2. User is logged out of the system and redirected to the public user home page.
Alternative Flows:	NIL
Exceptions:	NIL

Includes:	NIL
Special Requirements:	NIL
Assumptions:	1. The user is logged in to their account.
Notes and Issues:	NIL

1.14.3 Functional Requirements

1. Ensure the system has a 'Log Out' button at the top right corner of the web page
 - 1.1. When the 'Log Out' button is clicked:
 - 1.1.1. The system user is logged out of his/her account
 - 1.1.2. The system redirects the user to the public user home page