

Use case “Select a dock marker on list”

1. Use case code

UC008

2. Brief description

This use case describes the interaction between Customer and ECOBIKERENTAL Software when customer wishes to select a dock marker on map

3. Actors

3.1 Customer

4. Preconditions

Preconditions of this use case is that customer can select a dock marker if only if he/she searched dock markers.

5. Basic flow of events:

Step 1. The customer request to select a dock marker on map

Step 2. The software shows list of dock markers according to search result

Step 3. The software calls use case “View dock’s information”

Step 4. The customer selects a dock marker from the list

Step 5. The software redirects to dock marker detail section

6. Alternative flows

No	Location	Condition	Action	Resume location
1	At step 4	User chooses a dock marker	Insert usecase “View of available bike”	Resumes at step 5

7. Input data

8. Output data

Table1- Output data of dock’s information

No	Data fields	Description	Display format	Example
1	Name of the dock			EcoBikeRental Hai Ba Trung
2	Address			No.1, Dai Co Viet Street
3	Dock area			Hai Ba Trung

4	Number of available bikes	Number of unrented bikes in the dock		67 bikes are available
5	Number of empty docking points	Number of available slots to return bikes		25 empty docking point
6	Distance	Show the distance from customer's current position to the selected dock		2km away
7	Walking time	Show the calculated time for customer to walk to the selected dock	x hours, y minutes	30 minutes

Table2- Output data of available bikes

No	Data fields	Description	Display format	Example
1	Type	Type of the bike		Standard bike
2	Number of saddle		Number	01
3	Number of pedal		Number	01
4	Number of seat		Number	01
5	Cost coefficient	Cost coefficient fee to rent the bike	Number	1.5
6	Electric motor's battery	Show the battery percentage of e-bikes		78%
7	Time remain	Show the time to use the e-bike before it runs out of battery		45 minutes left

9. Postconditions