**Use case “Select a dock marker on map”**

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 customter 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