# Use Case “Return Bike”

## Use case code

UC002

## Brief Description

This use case describes the interactions between the EcoBikeRental software with the customer and Interbank when the customer desires to return a bike.

## Actors

* 1. **Customer**
  2. **InterBank**

## Preconditions

* Customer has found the location of an empty docking point of dock.
* Station completed bike rental.

## Basic Flow of Events

1. The customer  pushes the bike into an empty docking point of a dock.
2. The customer closes the lock
3. The EcoBikeRental return deposit to customer.
4. The customer pay for price of rental.
5. The EcoBikeRental confirm bike rental’s returning.

## Alternative flows

*Table 1 - Alternative flows of events for UC Return bike.*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Location** | **Condition** | **Action** | **Resume location** |
| 1. | At 3 | If the customer have not accepted the deposit | * The AIMS software notifies that the deposit’s returning is invalid | At Step 2 |
| 2. | At 5 | If the system doesn’t process return bike rental | * The AIMS software notifies that the bike’s returning is error | At Step 4 |

## Input data

*Table 2 - Input data of price*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Data fields** | **Descrip tion** | **Mandatory** | **Valid condition** | **Example** |
| 1. | Pay rental price |  | Yes | Balance is enough | 19000 VND |

## Output data

*Table 3 -Output data of bike’s returning information*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Data fields** | **Description** | **Display format** | **Example** |
| 1. | Bike type | Show type of bike | String | * Nomal single bike * Nomal double bike * Electric Bike |
| 2. | Operation date | The date bike start operating | Date String | 6/10/2020 |
| 3. | Time transaction | Show time starting and ending bike rental | String | 14:00:00 – 15:10:00 |
| 4. | Total time transaction | Show total time starting and edinng | String and Number | 1h and 10min |
| 5. | Deposit | Number of deposit that system paying back | String and Number | * 20000 VND |

## Postcondition

* The lock of bike is complete
* The customer’s account has received the deposit .