Use Case "Return Bike"

1. Use case code
UC003

2. Brief Description
This Use case describes the interaction between Customer and EcoBikeRental System where Customer wish to return their bike which had already rented before.

3. Actors
a) User (Customer)
b) Interbank

4. Preconditions
Customer had already rent for bikes in EcoBikeRental System.

5. Basic Flow of Events
Step 1.   The customer scans the barcode and request to return bikes.

Step 2.   The Software validates the barcode.

Step 3.   The Software locks the locker corresponding to bikes.

Step 4.   The Software forwards to Return Deposit Money Use Case.

Step 5.   The Software forwards to Deduct Money Use Case.

Step 6.   The Software shows and saves rental transactions

6. Alternative Flows

No	Location	Condition	Action	Resume location
1	Step 2	If the barcode was invalid	Notifies barcode error to customer	The use case ends

7. Input Data
a) Input data of Barcode Scanning

No	Data fields	Descriptions	Mandatory	Valid condition	Example
1	Barcode number	Barcode of the rented bike	Yes		3jk6ad2

8. Output Data

a) Output data of displaying rental transaction

No	Data fields	Description	Display format	Example
1	Customer name	The name of the customer		Vu Trung Dung
2	Barcode of the rented bike			3jk6ad2
3	Rented Bike Information	Information of rented bike		E-bike, Battery 80%
4	Deduct Amount	Total money for the rented bike	Comma for thousands separator Have positive or negative sign Right alignment	- 246,000
5	Deposit Amount	Total money for depositing the bike	Comma for thousands separator Have positive or negative sign Right alignment	+ 200,000
6	Currency			VND
8	Subtotal	Total money the customer have to pay, include returned deposit amount	Comma for thousands separator Have positive or negative sign Right alignment	- 46,000
7	Transaction status	The status of the transaction	Success - Failed	Success

9. Postconditions
None