**Use Case “Return Bike”**

1. **Use case code**

UC003

1. **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.

1. **Actors**
   1. User (Customer)
   2. Interbank
2. **Preconditions**

Customer had already rent for bikes in EcoBikeRental System.

1. **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

1. **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 |

1. **Input Data**
   1. Input data of Barcode Scanning

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

1. **Output Data**
   1. 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 |

1. **Postconditions**

None