

Use Case “Pay For Rental Bike”

1. Use case code

UC005

2. Brief Description

This use case describes the interaction between the Eco-Bike software with the customer and the Interbank when the customer pays for the rental bike

3. Actor

3.1. Customer

3.2. EcoBike Software

3.3. Interbank

4. Preconditions

- There is Internet connection to the app or the website
- The software has returned deposit successfully

5. Basic Flow of Events

1. The software calculates the rental fee
2. The software asks the bank to pay the fee
3. The interbank processes the transaction
4. The software saves the transaction info
5. The software displays the successful transaction notification (see Table B)
6. The software sends an emails of transaction info to the customer

6. Alternative Flows

Table A – Alternative flows of events for “Pay For Rental Bike”

No	Location	Condition	Action	Resume location
1	At step 1	Customer doesn't have to pay	EcoBike notifies that the customer doesn't have to pay the fee and the event ends	Step 6
2	At step 3	The balance is not enough	The software notifies that the balance is not enough and calls the sub use case “Update Payment Method”	Step 2

7. Input data

No need

8. Output data

Table B – Output data of transaction notification

No	Data fields	Description	Display format	Example
1	Invoice ID		- Number	1
2	Time issued			Eco-Bike System
3	Rent ID		- Number	2

4	Bike Name			LionEbike
5	Bike Type			EBike
6	Total rent time		- Number	2
7	Deposit ID		- Number	3
8	Deposit amount		- Float - Dot as decimal separator - 2 digits after decimal separator - along with currency	15000.00 VND
9	Rental Payment ID		- Number	4
10	Rental Payment Amount		- Float - Dot as decimal separator - 2 digits after decimal separator - along with currency	10000.00 VND
11	Total	Total amount of money corresponding the rental time interval	- Float - Dot as decimal separator - 2 digits after decimal separator - along with currency	150000.00 VND

9. Postconditions

No need