Use Case "Return a bike"

1. Use case code

UC0010

2. Brief Description

This use case describes the interactions between User and EBR software when User wishes to return a bike.

3. Actors

- 3.1. User
- 3.2. EBR software
- 4. Preconditions
 - 4.1 User rented a bike

5. Basic Flow of Events

- Step 1. The User requests to return a bike
- Step 2. The User enters the barcode
- Step 3. EBR software checks the barcode
- Step 4. EBR software converts barcode to rental code
- Step 5. EBR software closes the user's renting session
- Step 6. EBR software Summarizes session information, calculates rental fee, calculates excess money and notifies to User
 - Step 7. User confirms information
 - Step 8. EBR software calls Use case "Refund deposit after deducting rental fee"
 - Step 9. EBR software saves and prints bill for user

6. Alternative flows

Table 1 - Alternative flow of events for UC "Name of the Use Case"

No	Location	Condition	Action	Resume location
1	At step 3	Invalid barcode	Notifies wrong barcode	Step 2
2	At step 8	Transaction fail	Notifies transaction fail	End use case

7. Input data

Table 2 - Input data of ...

No	Data fields	Description	Mandatory	Valid condition	Example
1	Barcode	Bike's barcode	Yes	String	1231abc212

8. Output data

Table 3 - Output data of ...

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No	Data fields	Description	Description Display format		
1	End time	Ending time of the User's renting session	hh : mm	12:20 10/10/2020	

			DD/MM/YY	
2	Usage time		. A number of	120
			minutes usage	
			. Comma for	
3	Renting fee		thousands separator	123,000
3			. Positive integer	
			. Right alignment	
			. Comma for	
	Refund	deposit after	thousands separator	
4	deposit	deducting rental fee	. Positive integer	100,000
			. Right alignment	

9. Postconditions