Use Case "Rent Bike"

1. Use case code
UC00X

2. Brief Description
This use case describes the interaction between Customer and EcoBikeRental System when Customer wishes to place order.

3. Actors
3.1   Customer

4. Preconditions
4.1   Customer chooses a dock and requests rent bike.

5. Basic Flow of Events
5.1   Software views barcode screen.

5.2   Customer enters barcode of bike.

5.3   Software processes barcode.

5.4   Software shows bike info.

5.5   Customer requests payment.

5.6   Software calls to UC Pay bike deposit.

5.7   Software view transaction info.

5.8   Customer confirms transaction info.

6. Alternative flows

Table N-Alternative flows of events for UC Place order

No	Location	Condition	Action	Resume location
1.	At any Step	If customer enters go back	▪ Software goes back previous step.	Resumes at previous step.
2.	At step 5.4	If barcode is invalid	▪ Software notifies wrong info that invalid barcode.	Resumes at 5.1.

7. Input data

Table A-Input data - Barcode

No	Data fields	Description	Mandatory	Valid condition	Example

1.	Barcode		Yes		124343223

8. Output data

Table B-Output data – bike info

No	Data fields	Description	Display format	Example
1.	Lisence Plate			
2.	Current battery percentage		▪ %	50%

No	Data fields	Description	Display format	Example
1.	Transaction ID			IT1234
2.	Owner			Mai Hoang Minh
3.	Time and Date			12:12 12/09/2021
4.	Amount			120000VND

9. Activities diagram

act Rent Bike Activity

Customer	EcoBikeRental System

- View barcode screen
- Enter barcode
- Process barcode
- [Invalid]
- [Valid]
- View bike info
- Request payment
- Use case Pay bike retal
- Confirm transaction info
- View transaction info