

Use Case “Rent bike”

1.Use case code

UC00X

2.Brief Description

This use case describes the interaction between User and EcoBikeRental software when the user wishes to rent a bike.

3.Actor

3.1 User

3.2.EcoBikeRental software

4.Precondition

5.Basic Flow of Events

- 5.1 The user select dock bike
- 5.2 The software display dock bike information screen
- 5.3 The user request to rent bike
- 5.4 The software display bike rental screen
- 5.5 The user enter the code of the bike you want to rent
- 5.6 The software check validity of code bike
- 5.7 The software display payment screen
- 5.8 The user enters and submits payment information
- 5.9 The software check the balance and validity of payment information
- 5.10 The software call API
- 5.11 The software save the payment transaction
- 5.11 The software displays the successful rent bike notification

6. Alternative flows

Table 1-Alternative flows of events for UC Rent bike

No	Location	Condition	Alternative flow	Resume location
1.	At step 5.6	If the bike with the code entered is not found	Notice that invalid bike code	Resumes at Step 5.4
2.	At step 5.9	If the payment information is wrong	Notice that invalid payment information	Resumes at Step 5.7
3.	At step 5.10	If the balance is not enough	The software notifies that the balance is not enough	Resumes at Step 5.7

7. Input data

Table 1-Input data of payment information

No	Data fields	Description	Mandatory	Valid condition	Example
1.	Card holder name	String	Yes		Group 5
2.	Card Id	String	Yes		987152_group05_2022
3.	Private token	String	Yes		password

