

# Use Case “Rent A Bike”

## 1. Use case code

UC008

## 2. Brief Description

This use case describes the interactions between user and EBR software when user wishes to rent a bike

## 3. Actors

3.1. User

3.2. EBR Software

## 4. Preconditions

User logged in

## 5. Basic Flow of Events

Step 1. The user selects a bike

Step 2. The user enters corresponding barcode

Step 3. The EBR Software checks if barcode is valid

Step 4. The EBR Software checks if bike is available

Step 5. User chooses card for payment

Step 6. The EBR Software checks if payment card used for another session

Step 7. The EBR Software converts from barcode to rental code

Step 8. The EBR Software calls usecase "Pay deposit"

Step 9. The EBR Software creates new renting session

Step 10. The EBR Software notifies user of new session

## 6. Alternative flows

*Table 1 - Alternative flow of events for UC “Rent A Bike”*

No	Location	Condition	Action	Resume location
1	At Step 4	Wrong barcode	Notifies wrong barcode	Step 2
2	At Step 5	Not available	Notifies rented bike	Step 1
3	At Step 7	Used	Let user choose a different card	Step 5
4	At Step 9	Problem with credit card	Let user choose a different card	Step 5

## 7. Input data

*Table 2 - Input data of bike renting*

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

## 8. Output data

*Table 3 - Output data of bike renting*

No	Data fields	Description	Display format	Example
1	Session code		String	Code123123
1	Start time		hh:mm DD/MM/YYYY	16:30 29/09/2020
2	Deposit	Money deposited for the bike	<ul style="list-style-type: none"> <li>• Comma for thousands separator</li> <li>• Positive integer</li> <li>• Right alignment</li> </ul>	123,000

## 9. Postconditions

