

## Use Case “Rent Bike”

### 1. Use case code:

UC002

### 2. Brief Description:

This user case describes the interaction between Customer and Software when Customer wishes to rent a bike.

### 3. Actors:

#### 3.1 Customer

### 4. Preconditions:

None

### 5. Basic Flow of Events:

Step 1. Customer scans the barcode and request to rent a bike

Step 2. Software validates the barcode

Step 3. Software forwards to View bikes’s information Use Case

Step 4. Software forwards to choose Payment Method Use Case

Step 5. Software calculates the renting price and asks Customer to confirm

Step 6. Customer confirms the transactions

Step 7. Software forwards to Deduct money Use Case

Step 8. Software saves the transactions

Step 9. Software unlocks the locker, allow customer to use the bike

Step 10. Shows the successful renting message

### 6. Alternative flows:

Table N-Alternative flows of events for UC Rent Bike

No	Location	Condition	Action	Resume location
1.	At Step 2	If the barcode which customer scanned is invalid	- Notify the invalid barcode to Customer	Resumes at Step 1
2.	At Step 6	If Customer cancel the confirmation	- Cancel all the transactions - Notify that all transactions was canceled	The use case ends

### 7. Input data:

Table 1- Input data of Barcode

No	Data fields	Description	Mandatory	Valid condition	Example
1.	Barcode		Yes		4fy7tvi7

### 8. Output data:

Table 2 - Output data of transactions status

No	Data fields	Description	Display format	Example
1.	Transaction id	The id of the transactions which customer paid for renting		ID121
2.	Start Time	Time when customer start renting	Hh:mm dd/mm/yyyy	09:00 19/09/2020
3.	Deposit	Amount of money which customer paid for renting	- Comma for thousands separator	430,000

			- Positive integer - Right alignment	
4.	Barcode of the rented bike			4fy7tvi7

**9. Post-conditions:**

None