# Use Case "Rent bike"

### 1. Brief description

This use case describes the interaction between software and the user when the user wishes to rent a bike by scanning the barcode on the lock.

### 2. Actors

#### 2.1. Customer

### 3. Preconditions

None

### 4. Basic Flow of Events

- Step 1. User scan barcode on the lock
- Step 2. The software check the barcode
- Step 3. The software display the information of the corresponding bike
- Step 4. The software call "make transaction" use case
- Step 5. The software open the lock of the bike, allowing user to use the bike

### 5. Alternative flows

Table N-Alternative flows of events for UC Place rush order

No	Location	Condition		Action	Resume location
1	At step 2	If the barcode is invalid	•	The software notifies the user that it fail to recognize the barcode	At step 1

### 6. Input data

None

### 7. Output data

Table 1-Output data of the bike's information

No	Data fields	Description		Display format	Example
1.	License plate				52-N6 1234
2.	Bike type	Only 3 types: standard bicycle, standard e-bike, twin bike			standard bicycle
3.	Current battery percentage	Only shown on standard e-bike	•	Positive Integer Less than or equal to 100 Have '%' at the end Right alignment	99%

# 8. Postconditions

If success then the lock on the scanned bike will be unlocked and the system will deduct 40% of the value of the bike in user's card or account.