**USE CASE “Rent bike”**

## Use Case code

UC004

## Brief Description

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

## Actors

User

## Preconditions

## Basic flow of events

Step 1: User enters the corresponding barcode of the bike that he or she wants to rent from view dock screen

Step 2: The EcoBikeRental software convert the barcode into a rental code

Step 3: The EcoBikeRental software checks the availability of the bike in the dock

Step 4: The EcoBikeRental software calculate deposit

Step 5: The EcoBikeRental software displays the invoice

Step 6: User confirms to rent bike

Step 7: EcoBike call UC PayRental

Step 8: The EcoBikeRental software save the rental

Step 9: The AIMS software removes the bike from the dock

Step 10: The AIMS software displays successful notification.

## Alternative flows

*Table A - Alternative flows of events for UC Rent Bike*

| No | Point | Condition | Action | Resuming point |
| --- | --- | --- | --- | --- |
| 1 | Step 2 | The barcode is in incorrect format | The EcoBikeRental software notifies that the input barcode is incorrect | Step 1 |
| 2 | Step 3 | The bike is not available in the dock | The EcoBikeRental software notifies that the bike is not available | Step 1 |

## Input data

| No | Data field | Description | Required | Valid condition | Example |
| --- | --- | --- | --- | --- | --- |
| 1 | barcode |  | true |  | 123456789 |

## Output data

*Table B - View dock screen*

| No | Data field | Description | Required | Valid condition | Example |
| --- | --- | --- | --- | --- | --- |
| 1 | name | Dock name | yes |  | EC-01 |
| 2 | address | Dock address | yes |  | Block 0, line 1 |
| 3 | area | Dock area | yes |  | 69ha |
| 4 | number of available bikes | Number of available bikes | yes |  | 69 |
| 5 | number of empty points | Number of empty docking points | yes |  | 69 |
| 6 | distance | Distance from user’s location to this dock | yes |  | 69 m |
| 7 | time | walking time from user’s location to this dock | yes |  | 5 min |

*Table A - Invoice screen*

| No | Data field | Description | Required | Valid condition | Example |
| --- | --- | --- | --- | --- | --- |
| 1 | type | Bike type | yes |  | Standard |
| 2 | number | Bike registration number | yes |  | 18G1-56446 |
| 3 | time | Rental time | yes | format dd:hh:mm | 0d:12h:12m |
| 5 | deposit | Deposit amount | yes |  | 720.000 |
| 6 | battery | Remaining battery percentage | yes |  | 80% |

## Post conditions