**Use Case Rent a Bike**

1. **Use case code**

* UC00X

1. **Brief description:**

* This use case describes the interaction between user and EcoBikeRental application when user wants to rent a bike from the system

1. **Actor:**

* User

1. **Preconditions:**

* User successfully logged in to the system

1. **Basic Flow of Event:**
   1. User scans the barcode on the lock using EcoBikeRental app
   2. EcoBikeRental app shows bike information, including:
   3. The user chooses to deposit
   4. EcoBikeRental app calls "DEPOSIT" use case
   5. The lock is automatically opened, allowing user to use the bike
   6. EcoBikeRental app starts counting the rental time
2. **Alternative flows:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Location** | **Conditions** | **Actions** | **Resume location** |
| 1 | Any time before step 3 | User quits the renting process | EcoBikeRental asks for confirmation |  |
| 1a |  | User accepts to quit | EcoBikeRental displays main page |  |
| 1b |  | User refuses to quit | EcoBikeRental shows current page | At step where the event happens |
| 2 | At step 3 | The bike is already rent | EcoBike shows the message | At step 2 |

Table 1. Alternative flow of Rent A Bike use case

1. **Input data**
2. **Output data**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No** | **Data fields** | **Description** | **Display format** | **Example** |
| 1 | Bike name | Name of the bike | - String   * - All caps | THONG NHAT BIKE |
| 2 | Bike type | Type of the bike | * String | Normal bike |
| 3 | Bike status | The current status of the current bike | * - String | FREE, RENT |
| 4 | Image of the bike |  | Image |  |
| 5 | Location | Name of the Dock | * - String | Dong Mac Station |
| 6 | Rental price | The price to rent the bike | - Float  - Dot as decimal separator  - 2 digits after decimal separator  - along with currency | 12.00 VND |
| 7 | Current battery | Current status of the battery; only for the Ebike type | - Percentage  - Integer | 60% |
| 8 | Distance estimated | The distance the bike can go with current battery | - Number along with ‘km’ | 100 km |
| 9 | Deposit | The deposit customers have to pay to rent bike | - Float  - Dot as decimal separator  - 2 digits after decimal separator  - along with currency | 15000.00 VND |

Table 1. Output data of displaying bike information

1. **Post conditions**

* User successfully rent a bike