**Use Case “Rent A Bike”**

1. **Use case code**

UC008

1. **Brief Description**

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

1. **Actors**
   1. User
   2. EBR Software
2. **Preconditions**

User logged in

1. **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 availabe

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

1. **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 |

1. **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 |

1. **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 | • Comma for thousands separator  • Positive integer  • Right alignment | 123,000 |

1. **Postconditions**