1. **RETURN BIKE SCREEN**

Screen specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| EcoBikeRental Software | | Date of creation | Approved by | Reviewed by | Person in charge |
| Screen specification | Return Bike screen | 7/11/2020 |  |  | Trần Thị Hằng |
|  | | Control | Operation | Function | |
| Area for displaying Bike information | Initial | Display detail information of renting bike | |
| Area for displaying Card information | Initial | Display detail information of Card which will be used for payment | |
| Edit button | Click | Display the Payment Screen | |
| Cancel button | Click | Display Home Screen | |
| Submit button | Click | Display Invoice Screen/Transaction Error Screen | |

Defining the field attributes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Screen name | Return Bike screen | | | |
| Item name | Number of digits (bytes) | Type | Field attribute | Remarks |
| Number Plate | 10 | String | Black | Left justified |
| Barcode | 6 | String | Black | Left justified |
| Type | 20 | String | Black | Left justified |
| Battery Percentage | 3 | Numeral | Black | Left justified |
| Remaining time | 2 | Numeral | Black | Left justified |
| Deposit | 10 | Numeral | Black | Left justified |
| Rented time | 5 | Numeral | Black | Left justified |
| Total | 20 | Numeral | Black | Left justified |
| Card holder | 50 | String | Black | Left justified |
| Card number | 20 | Numeral | Black | Left justified |
| Bank name | 20 | String | Black | Left justified |
| Expiration Date | 10 | String | Black | Left justified |
| Security Code | 10 | Numeral | Black | Left justified |

1. **TRANSACTION ERROR SCREEN**

Screen specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| EcoBikeRental Software | | Date of creation | Approved by | Reviewed by | Person in charge |
| Screen specification | Transaction Error Screen | 7/11/2020 |  |  | Trần Thị Hằng |
|  | | Control | Operation | Function | |
| Change Card Information button | Click | Display Payment Screen | |

1. **VIEW BIKE INFORMATION SCREEN**

Screen specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| EcobikeRental Software | | Date of creation | Approved by | Reviewed by | Person in charge |
| Screen specification | View bike information screen | 07/11/2020 |  |  | Dương Thị Huê |
|  | | Control | Operation | Function | |
| Area for  displaying the number plate | Initial | Display the number plate | |
| Area for display image of bike | Initial | Display image | |
| Area for display barcode | initial | Display the barcode | |
| Area for display remaining time | initial | Display remaining time of bike if it is electric bike | |
|  | | Area for display battery percentage | initial | Display battery percentage of bike if it is electric bike | |
|  | | Area for display deposit | initial | Display deposit | |
|  | | Area coefficient price | initial | Display coefficient price to calculate amount | |
|  | | Cancel button | Click | Back to station information screen | |
|  | | Rent button | Click | Move to payment screen | |
|  | | Home icon | Click | Back to home | |

Defining the field attributes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Screen name | View bike information screen |  | | |
| Item name | Number of digits (bytes) | Type | Field attribute | Remarks |
| Number plate | 10 | String | Black | Left-justified |
| Barcode | 6 | String | Black | Left justified |
| Type | 20 | String | Black | Left-justified |
| Remaining time | 2 | Numeral | Black | Left-justified |
| Battery percentage | 3 | Numeral | Black | Left-justified |
| Deposit | 10 | Number | Black | Left-justified |
| Coefficient price | 5 | Numeral | Black | Left-justified |

1. **VIEW STATION INFORMATION SCREEN**

Screen specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| EcobikeRental Software | | Date of creation | Approved by | Reviewed by | Persion in charge |
| Screen specification | View station information screen | 07/11/2020 |  |  | Dương Thị Huê |
|  | | Control | Operation | Function | |
| Area for  displaying the  Dock ‘s name | Initial | Display the name of dock | |
| Area for display dock ‘s address | Initial | Display dock ‘s address | |
| Area for display dock ‘s area | initial | Display the area of the dock | |
| Area for display number available bike | initial | Display remaining number available bike | |
|  | | Area for display the number of empty docks | initial | Display number empty docks | |
|  | | Area for walking time | initial | Display walking time from current user location to dock | |
|  | | Area for display list available bike and its information | initial | Display list available bike in the dock and its information | |
|  | | Home icon | Click | Back to home | |
|  | | Rent button | Click | Move to payment screen | |

Defining the field attributes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Screen name | View bike information screen |  | | |
| Item name | Number of digits (bytes) | Type | Field attribute | Remarks |
| Number plate | 10 | String | Black | Left-justified |
| Barcode | 6 | String | Black | Left justified |
| Type | 20 | String | Black | Left-justified |
| Remaining time | 2 | Numeral | Black | Left-justified |
| Battery percentage | 3 | Numeral | Black | Left-justified |
| Deposit | 10 | Number | Black | Left-justified |

1. **VIEW RENTING BIKE SCREEN**

Screen specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| EcobikeRental Software | | Date of creation | Approved by | Reviewed by | Persion in charge |
| Screen specification | View renting bike information screen | 07/11/2020 |  |  | Dương Thị Huê |
|  | | Control | Operation | Function | |
| Area for  displaying the bike information | Initial | Display bike information | |
| Area for display remaining time | Initial | Display remaining time of user | |
| Area for display  Renting time | initial | Display the renting time | |
| Area for display amount up to now | initial | Display amount to be paid up to now | |
|  | | Area for home icon | click | Back to home | |
|  | | Area for display deposit | initial | Display deposit | |
|  | | Area coefficient price | initial | Display coefficient price to calculate amount | |
|  | | Area for display type | initial | Display type of bike | |
|  | | Pause icon | click | Stop counting clock | |
|  | | Play icon | Click | Continue counting clock | |

Defining the field attributes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Screen name | View bike information screen |  | | |
| Item name | Number of digits (bytes) | Type | Field attribute | Remarks |
| Amount up to now | 10 | Numeral | red | Left-justified |
| Remaining time | 8 | Hh:mm:ss | black | Left-justified |

1. **BARCODE POP-UP**

Screen specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **EcoBikeRental Software** | | **Date of creation** | **Approved by** | **Reviewed by** | **Person in charge** |
| **Screen Specification** | Barcode Pop-up (when you click the rent bike button on the home screen) | 11/5/2020 |  |  | Phạm Nhật Linh |
| D:\ISD\temp\Barcode Pop-up.png | | **Control** | **Operation** | **Function** | |
| Area for entering barcode | Initial | Get the barcode of the bike | |
| Submit Button | click | Display the rent bike screen | |
| Cancel button | Click | Come back to home screen | |

Defining the field attributes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Screen Name** | Barcode Pop-up |  | | |
| **Item Name** | **Number of digits (bytes)** | **Type** | **Field Attribute** | **Remarks** |
| Bike Barcode | 6-20 | String | Black | Left-justified |

1. **RENT BIKE SCREEN**

Screen specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **EcoBikeRental Software** | | **Date of creation** | **Approved by** | **Reviewed by** | **Person in charge** |
| **Screen Specification** | Rent Bike Screen | 11/5/2020 |  |  | Phạm Nhật Linh |
| D:\ISD\ISD.ICT.20201.08\Detailed Design\Interface Design\Rent Bike Screen.png | | **Control** | **Operation** | **Function** | |
| Area for displaying bike info | Initial | Display the current bike info | |
| Area for displaying the deposit amount | Initial | Display the deposit amount | |
| Area for displaying payment methods | Click | Choose one payment method | |
| Cancel Button | Click | Display the previous screen | |
| Rent Button | Click | Display the payment screen | |
| Home Icon | Click | Back to Home Screen | |

Defining the field attributes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Screen Name** | Rent Bike Screen |  | | |
| **Item Name** | **Number of digits (bytes)** | **Type** | **Field Attribute** | **Remarks** |
| Number Plate | 10 | String | Black | Left-justified |
| Barcode | 6 | String | Black | Left-justified |
| Type | 20 | String | Black | Left-justified |
| Battery Percentage (optional) | 3 | Numeral | Black | Left-justified |
| Estimate Time Left (optional) | 2 | Numeral | Black | Left-justified |
| Deposit Amount | 10 | Numeral | Black | Left-justified |

1. **PAYMENT SCREEN**

Screen specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **EcoBikeRental Software** | | **Date of creation** | **Approved by** | **Reviewed by** | **Person in charge** |
| **Screen Specification** | Payment Screen | 11/5/2020 |  |  | Phạm Nhật Linh |
| D:\ISD\ISD.ICT.20201.08\Detailed Design\Interface Design\Payment Screen.png | | **Control** | **Operation** | **Function** | |
| Area for entering credit card info | Initial | Get credit card info input | |
| Cancel Button | Click | Back to View Dock Screen | |
| Submit Button | Click | Continue to Invoice Screen | |
| Home Icon | Click | Back To Home Screen | |

Defining the field attributes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Screen Name** | Payment Screen |  | | |
| **Item Name** | **Number of digits (bytes)** | **Type** | **Field Attribute** | **Remarks** |
| Card Number | 20 | Numeral | Black | Left-justified |
| Bank | 20 | String | Black | Left-justified |
| Name on Card | 50 | String | Black | Left-justified |
| Expiration Date (Month) | 2 | Numeral | Black | Left-justified |
| Expiration Date (Year) | 4 | Numeral | Black | Left-justified |
| Security Code | 10 | Numeral | Black | Left-justified |

1. **INVOICE SCREEN**

Screen specification

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **EcoBikeRental Software** | | **Date of creation** | **Approved by** | **Reviewed by** | **Person in charge** |
| **Screen Specification** | Invoice Screen | 11/5/2020 |  |  | Phạm Nhật Linh |
| D:\ISD\temp\Invoice Screen.png | | **Control** | **Operation** | **Function** | |
| Area for displaying transaction status | Initial | Display the message | |
| Area for displaying the details of the transaction | Initial | Display transaction ID, username, transaction contents, amount of money,  Payment method | |
| Back to Home button | Click | Come back to home screen | |

Defining the field attributes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Screen Name** | Invoice Screen |  | | |
| **Item Name** | **Number of digits (bytes)** | **Type** | **Field Attribute** | **Remarks** |
| Transaction Status | 50 | String | Black | Center-justified |
| Username | 50 | String | Black | Left-justified |
| Transaction Contents | 50 | String | Black | Left-justified |
| Transaction ID | 20 | String | Black | Left-justified |
| Transaction Amount | 10 | Numeral | Black | Left-justified |
| Payment Method | 20 | String | Black | Left-justified |