

5. Test Case Details

5.1. Test Case Specification for "Test Case ValidateNumberFieldTest"

5.1.1. Test Case 1

Test Case ID	TC001	Test Case Description	Test the method validateNumberField for pin and securityCode of Card	
Created By	Trần Thị Hằng	Reviewed By	Dương Thị Huệ	Version 1.0

QA Tester's Log Review method validateNumberField

Tester's Name Trần Thị Hằng **Date Tested** 28/11/2020 **Test Case** Pass

#	Prerequisites:
1	Customer requests to rent or return bike

#	Test Data	Value
1	number	3456789

Test Scenario input number is valid

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	click submit card information	submit sucessfully	As Expected	Pass

5.1.2. Test Case 2

Test Case ID	TC002	Test Case Description	Test the method validateNumberField for pin and securityCode of Card	
Created By	Trần Thị Hằng	Reviewed By	Dương Thị Huệ	Version 1.0

QA Tester's Log Review method validateNumberField

Tester's Name Trần Thị Hằng **Date Tested** 28/11/2020 **Test Case** Pass

#	Prerequisites:
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1	Customer requests to rent or return bike
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#	Test Data	Value
1	number	abc123

Test Scenario input number is invalid

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	click submit card information	Error: input number is invalid. Submit unsuccessfully	As Expected	Pass

5.1.3. Test Case 3

Test Case ID	TC003	Test Case Description	Test the method validateNumberField for pin and securityCode of Card	
Created By	Trần Thị Hằng	Reviewed By	Dương Thị Huệ	Version 1.0

QA Tester's Log Review method validateNumberField

Tester's Name	Trần Thị Hằng	Date Tested	28/11/2020	Test Case Pass
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#	Prerequisites:
1	Customer requests to rent or return bike

#	Test Data	Value
1	number	null

Test Scenario input number is null

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	click submit card information	Error: input number is invalid. Submit unsuccessfully	As Expected	Pass

5.2. Test Case Specification for "Test Case ValidateNameTest"

5.2.1. Test Case 1

Test Case ID	TC004	Test Case Description	Test the method validateName for cardHolder's name and Bank's name of Card	
Created By	Trần Thị Hằng	Reviewed By	Dương Thị Huê	Version 1.0

QA Tester's Log Review method validateName

Tester's Name Trần Thị Hằng **Date Tested** 28/11/2020 **Test Case** Pass

#	Prerequisites:
1	Customer requests to rent or return bike

#	Test Data	Value
1	name	Tran Thi Hang

Test Scenario input name is valid

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	click submit card information	submit sucessfully	As Expected	Pass

5.2.2. Test Case 2

Test Case ID	TC005	Test Case Description	Test the method validateName for cardHolder's name and Bank's name of Card	
Created By	Trần Thị Hằng	Reviewed By	Dương Thị Huê	Version 1.0

QA Tester's Log Review method validateName

Tester's Name Trần Thị Hằng **Date Tested** 28/11/2020 **Test Case** Pass

#	Prerequisites:
1	Customer requests to rent or return bike

#	Test Data	Value
1	name	Vietcombank01234

Test Scenario input name is invalid

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	click submit card information	Error: input name is invalid. Submit unsuccessfully	As Expected	Pass

5.2.3. Test Case 3

Test Case ID	TC006	Test Case Description	Test the method validateName for cardHolder's name and Bank's name of Card	
Created By	Trần Thị Hằng	Reviewed By	Dương Thị Huê	Version 1.0

QA Tester's Log Review method validateName

Tester's Name Trần Thị Hằng **Date Tested** 28/11/2020 **Test Case** Pass

#	Prerequisites:
1	Customer requests to rent or return bike

#	Test Data	Value
1	name	\$#nguyen

Test Scenario input name is invalid

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	click submit card information	Error: input name is invalid. Submit unsuccessfully	As Expected	Pass

5.2.4. Test Case 4

Test Case ID	TC007	Test Case Description	Test the method validateName for cardHolder's name and	
Created By	Trần Thị Hằng	Reviewed By	Dương Thị Huê	Version 1.0

QA Tester's Log Review method validateName

Tester's Name Trần Thị Hằng **Date Tested** 28/11/2020 **Test Case** Pass

#	Prerequisites:
1	Customer requests to rent or return bike

#	Test Data	Value
1	name	null

Test Scenario input name is null

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	click submit card information	Error: input name is invalid. Submit unsuccessfully	As Expected	Pass

5.3. Test Case Specification for "Test Case ValidateExpirationDateTest"

5.3.1. Test Case 1

Test Case ID	TC008	Test Case Description	Test the method validateExpirationDate for expiration of Card	
Created By	Trần Thị Hằng	Reviewed By	Dương Thị Huê	Version 1.0

QA Tester's Log Review method validateExpirationDate

Tester's Name Trần Thị Hằng **Date Tested** 28/11/2020 **Test Case** Pass

#	Prerequisites:
1	Customer requests to rent or return bike

#	Test Data	Value
1	date	12/3/07

Test Scenario input date is before current time

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	click submit card information	Error: input date is invalid. Submit unsuccessfully	As Expected	Pass

5.3.2. Test Case 2

Test Case ID	TC009	Test Case Description	Test the method validateExpirationDate for expiration of
Created By	Trần Thị Hằng	Reviewed By	Dương Thị Huê
		Version	1.0

QA Tester's Log Review method validateExpirationDate

Tester's Name Trần Thị Hằng **Date Tested** 28/11/2020 **Test Case** Pass

#	Prerequisites:
1	Customer requests to rent or return bike

#	Test Data	Value
1	date	12/30/20

Test Scenario input date is valid to use

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	click submit card information	submit sucessfully	As Expected	Pass

5.3.3. Test Case 3

Test Case ID	TC010	Test Case Description	Test the method validateExpirationDate for expiration of	
Created By	Trần Thị Hằng	Reviewed By	Dương Thị Huê	Version 1.0

QA Tester's Log Review method validateExpirationDate

Tester's Name Trần Thị Hằng **Date Tested** 28/11/2020 **Test Case** Pass

#	Prerequisites:
1	Customer requests to rent or return bike

#	Test Data	Value
1	date	abc

Test Scenario input date is invalid (wrong format)

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	click submit card information	Error: input date is invalid. Submit unsuccessfully	As Expected	Pass

5.3.4. Test Case 4

Test Case ID	TC011	Test Case Description	Test the method validateExpirationDate for expiration of	
Created By	Trần Thị Hằng	Reviewed By	Dương Thị Huê	Version 1.0

QA Tester's Log Review method validateExpirationDate

Tester's Name Trần Thị Hằng **Date Tested** 28/11/2020 **Test Case** Pass

#	Prerequisites:
1	Customer requests to rent or return bike

#	Test Data	Value
1	date	null

Test Scenario input date is null

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	click submit card information	Error: input date is invalid. Submit unsuccessfully	As Expected	Pass

5.4. Test Case Specification for "Test Case checkAvailableBike" to rent

Test Case ID	TC0012	Test Case Description	check the bike is available for renting or not
Created By	Dương Thị Huê	Reviewed By	Trần Thị Hằng
		Version	1.0

QA Tester's Log Review method checkAvailableBike

Tester's Name	Dương Thị Huê	Date Tested	28/11/2020	Test Case (Pass/Fail /Not Executed)	Pass
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#	Prerequisites:
1	Customer requests to rent bike

#	Test Data	Value
1	renting	TRUE
2	renting	FALSE

Test Scenario

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	click submit barcode to rent bike	TRUE	As Expected	Pass

#	Test Data	Value
2	renting	FALSE

Test Scenario

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	click submit barcode to rent bike	FALSE	As Expected	Pass

5.5. Test Case Specification for "Test Case checkStationReturnBike" to renturn

Test Case ID	TC0013	Test Case Description	check the station have empty dock point or not
Created By	Dương Thị Huê	Reviewed By	Trần Thị Hằng
		Version	1.0

QA Tester's Log Review method checkStationReturnBike

Tester's Name	Dương Thị Huê	Date Tested	28/11/2020	Test Case (Pass/Fail /Not Executed)	Pass
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#	Prerequisites:
1	Customer request to renturn bike

#	Test Data	Value
1	numEmptyDockPoint	15

Test Scenario

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	click submit to return bike in the	TRUE	As Expected	Pass

#	Test Data	Value
2	numEmptyDockPoint	0

Test Scenario

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	click submit to return bike in the	FALSE	As Expected	Pass

#	Test Data	Value
2	numEmptyDockPoint	-1

Test Scenario

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	click submit to return bike in the	FALSE	As Expected	Pass

5.6. Test Case Specification for Test Case "ValidateBarcodeTest"

5.6.1. Test Case 1

Test Case ID	TC014	Test Case Description	Test the method validateBarcode
Created By	Phạm Nhật Linh	Reviewed By	Đỗ Minh Thông
		Version	1.0

<u>QA Tester's Log</u>	Review method validateBarcode
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Tester's Name	Phạm Nhật Linh	Date Tested	27/11/2020	Test Case (Pass/Fail /Not Executed)	Pass
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#	Prerequisites:
1	Customer enters bike barcode to rent bike

#	Test Data	Value
1	barcode	null

Test Scenario input barcode is null

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	click submit bike barcode	Error: Invalid Barcode	As Expected	Pass

5.6.2. Test Case 2

Test Case ID	TC015	Test Case Description	Test the method validateBarcode
Created By	Phạm Nhật Linh	Reviewed By	Đỗ Minh Thông
		Version	1.0

QA Tester's Log Review method validateBarcode

Tester's Name	Phạm Nhật Linh	Date Tested	27/11/2020	Test Case (Pass/Fail /Not Executed)	Pass
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#	Prerequisites:
1	Customer enters bike barcode to rent bike

#	Test Data	Value
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1	barcode	asbasced
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Test Scenario input barcode has more than 6 characters

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	click submit bike barcode	Error: Invalid Barcode	As Expected	Pass

5.6.3. Test Case 3

Test Case ID	TC016	Test Case Description	Test the method validateBarcode
Created By	Phạm Nhật Linh	Reviewed By	Đỗ Minh Thông
		Version	1.0

QA Tester's Log Review method validateBarcode

Tester's Name	Phạm Nhật Linh	Date Tested	27/11/2020	Test Case (Pass/Fail /Not Executed)	Pass
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#	Prerequisites:
1	Customer enters bike barcode to rent bike

#	Test Data	Value
1	barcode	12ab@#

Test Scenario input barcode has invalid character

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	click submit bike barcode	Error: Invalid Barcode	As Expected	Pass

5.6.4. Test Case 4

Test Case ID	TC017	Test Case Description	Test the method validateBarcode
Created By	Phạm Nhật Linh	Reviewed By	Đỗ Minh Thông
		Version	1.0

QA Tester's Log Review method validateBarcode

Tester's Name	Phạm Nhật Linh	Date Tested	27/11/2020	Test Case (Pass/Fail /Not Executed)	Pass
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#	Prerequisites:
1	Customer enters bike barcode to rent bike

#	Test Data	Value
1	barcode	1a2b3c

Test Scenario input barcode has 6 characters, each one is a letter or a digit

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	click submit bike barcode	Valid Barcode	As Expected	Pass

5.7. Test Case Specification for Test Case "CheckRentingBike"

5.7.1. Test Case 1

Test Case ID	TC018	Test Case Description	Test the method checkRentingBike
Created By	Phạm Nhật Linh	Reviewed By	Đỗ Minh Thông
		Version	1.0

QA Tester's Log Review method checkRentingBike

Tester's Name	Phạm Nhật Linh	Date Tested	27/11/2020	Test Case (Pass/Fail /Not Executed)	Pass
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#	Prerequisites:
1	Customer wants to return bike

#	Test Data	Value
1	bike's station	null

Test Scenario the renting bike has null station

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	check renting bike's station	Valid bike to return	As Expected	Pass

5.7.2. Test Case 2

Test Case ID	TC019	Test Case Description	Test the method checkRentingBike
Created By	Phạm Nhật Linh	Reviewed By	Đỗ Minh Thông
		Version	1.0

QA Tester's Log Review method checkRentingBike

Tester's Name	Phạm Nhật Linh	Date Tested	27/11/2020	Test Case (Pass/Fail /Not Executed)	Pass
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#	Prerequisites:
1	Customer wants to return bike

#	Test Data	Value
1	bike's station	Truong Dinh

Test Scenario the renting bike has station named "Truong Dinh"

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	check renting bike's station	Invalid bike to return	As Expected	Pass

5.8. Test Case Specification for Test Case "ValidateBalance"

5.8.1. Test Case 1

Test Case ID	TC019	Test Case Description	Test the method validateBalance	
Created By	Đỗ Minh Thông	Reviewed By	Phạm Nhật Linh	Version 1.0

QA Tester's Log Review method validateBalance

Tester's Name	Đỗ Minh Thông	Date Tested	28/11/2020	Test Case (Pass/Fail /Not Executed)	Pass
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#	Prerequisites:
1	Customer wants to pay the price after renting a bike

#	Test Data	Value
1	balance	51000
2	money	52000

Test Scenario the balance is less than the money

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
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1	check valid balance	invalid balance to return	As Expected	Pass
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5.8.2. Test Case 2

Test Case ID	TC020	Test Case Description	Test the method validateBalance	
Created By	Đỗ Minh Thông	Reviewed By	Phạm Nhật Linh	Version 1.0

QA Tester's Log Review method checkRentingBike

Tester's Name	Đỗ Minh Thông	Date Tested	28/11/2020	Test Case (Pass/Fail /Not Executed)	Pass
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#	Prerequisites:
1	Customer wants to pay the price after renting a bike

#	Test Data	Value
1	balance	100000
2	money	20000

Test Scenario the balance is greater than the money

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	check valid balance	valid balance to return	As Expected	Pass

5.9. Test Case Specification for Test Case "CalculateMoney"

5.9.1. Test Case 1

Test Case ID	TC021	Test Case Description	Test the method calculateMoney	
Created By	Đỗ Minh Thông	Reviewed By	Phạm Nhật Linh	Version 1.0

QA Tester's Log Review method calculateMoney

Tester's Name	Đỗ Minh Thông	Date Tested	28/11/2020	Test Case (Pass/Fail /Not Executed)	Pass
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#	Prerequisites:
1	Customer return bike and request to pay the money

#	Test Data	Value
1	coefficient	1
2	time	9

Test Scenario Customer rents bike in 9 minutes

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	calculate money	0	As Expected	Pass

5.9.2. Test Case 2

Test Case ID	TC022	Test Case Description	Test the method calculateMoney
Created By	Đỗ Minh Thông	Reviewed By	Phạm Nhật Linh
		Version	1.0

QA Tester's Log Review method checkRentingBike

Tester's Name	Đỗ Minh Thông	Date Tested	28/11/2020	Test Case (Pass/Fail /Not Executed)	Pass
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#	Prerequisites:
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1	Customer return bike and request to pay the money
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#	Test Data	Value
1	coefficient	1.5
2	time	40

Test Scenario Customer rents bike in 40 minutes

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	calculate money	15000	As Expected	Pass