5. Test Case Details

5.1. Test Case Specification for "Test Case TestNumberField"

5.1.1. Test Case 1

TC001 **Test Case ID**

Test Case Description

Test the method validateNumberField for pin

and securityCode of Card

Trần Thị Hằng **Created By**

Reviewed By

Dương Thị Huê

Version

QA Tester's Log

Review method testNumberField

Tester's Name

Trần Thị Hằng

Date Tested

28/11/2020

Test Case Pass

1.0

#	Prerequisites:
1	Customer requests to rent or return hike

#	Test Data	Value
1	number	3456789

Test Scenario

input number is valid

	Step#	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
Ī	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

Trần Thị Hằng **Created By**

Reviewed By

Dương Thị Huê

Version

QA Tester's Log

Review method testNumberField

Tester's Name Trần Thị Hằng **Date Tested**

28/11/2020

Test Case

Pass

1.0

Prerequisites:

#	Test Data	Value
1	number	abc123

<u>Test Scenario</u> 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.	As Expected	Pass
		Submit unsuccessfully		

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 Huê Version 1.0

QA Tester's LogReview method testNumberField

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	null

<u>Test Scenario</u> input number is null

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

5.2. Test Case Specification for "Test Case testNameField"

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 ByTrần Thị HằngReviewed ByDương Thị HuêVersion1.0

QA Tester's Log Review method testNameField

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

<u>Test Scenario</u> input name is valid

Ste	ер#	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 testNameField

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

<u>Test Scenario</u> input name is invalid

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

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 ByTrần Thị HằngReviewed ByDương Thị HuêVersion1.0

QA Tester's Log Review method testNameField

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

# Prerequisites:		Prerequisites:
1 Customer requests to rent or return bike		Customer requests to rent or return bike

#	Test Data	Value
1	name	\$#nguyen

<u>Test Scenario</u> input name is invalid

Step#	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1		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 ByTrần Thị HằngReviewed ByDương Thị HuêVersion1.0

QA Tester's Log Review method testNameField

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

<u>Test Scenario</u> 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.	As Expected	Pass
		Submit unsuccessfully		

5.3. Test Case Specification for "Test Case testExpirationDate"

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 LogReview method testExpirationDate

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	String	2007-12-03

<u>Test Scenario</u> 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.	As Expected	Pass
		Submit unsuccessfully		

5.3.2. Test Case 2

Test Case ID

TC009
Test Case Description
Test the method validateExpiration Date for expiration of Durong Thị Huê

Version
1.0

QA Tester's LogReview method testExpirationDate

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

1	Customer requests	Customer requests to rent or return bike	
#	Test Data	Value	
1	String		1125

<u>Test Scenario</u> 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 validateExpiration Date for expiration of Durong Thi Huê

Version

1.0

QA Tester's LogReview 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	String	1120

<u>Test Scenario</u> input date is valid

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

5.3.4. Test Case 4

Test Case IDTC011Test Case DescriptionTest the method validateExpiration Date for expiration ofCreated ByTrần Thị HằngReviewed ByDương Thị HuêVersion1.0

QA Tester's LogReview 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	String	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.	As Expected	Pass
		Submit unsuccessfully		

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

Test Case ID TC0012 **Created By**

Dương Thị Huê

Test Case Description Reviewed By

check the bike is available for renting or not

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

(Pass/Fail /Not

Executed)

#	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 testCheckStationReturnBike" to renturn

Test Case ID	TC0013	Test Case Description	check the station hav	e empty doc	k point or not
Created By	Dương Thị Huê	Reviewed By	Trần Thị Hằng	Version	1.0
QA Tester's Log	Review method checkStati	onReturnBike			
	_		_		
Tester's Name	Dương Thị Huê	Date Tested	28/11/2020	Test Case	Pass
				(Pass/Fail	
				/Not	
				Executed)	

#	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

ĺ	#	Test Data	Value
ĺ	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 testValidateBarcode

5.6.1. Test Case 1

Test Case IDTC014Test Case DescriptionTest the method validateBarcodeCreated ByPhạm Nhật LinhReviewed ByĐỗ Minh ThôngVersion

QA Tester's Log Review method testValidateBarcode

Tester's Name	Phạm Nhật Linh	Date Tested	27/11/2020	Test Case	Pass
				(Pass/Fail	
				/Not	
				Executed)	

#	Prerequisites:
1	Customer enters bike barcode to rent bike

#	Test Data	Value
1	barcode	null

<u>Test Scenario</u> 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 IDTC015Test Case DescriptionTest the method validateBarcodeCreated ByPhạm Nhật LinhReviewed ByĐỗ Minh ThôngVersion

QA Tester's LogReview method testValidateBarcode

Tester's Name
Phạm Nhật Linh
Date Tested
Pass (Pass/Fail /Not Executed)

#	Prerequisites:
1	Customer enters bike barcode to rent bike

# lest Data Value	#	Test Data	Value
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1	barcode	asbasced

<u>Test Scenario</u> 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 IDTC016Test Case DescriptionTest the method validateBarcodeCreated ByPhạm Nhật LinhReviewed ByĐỗ Minh ThôngVersion

QA Tester's Log Review method testValidateBarcode

Tester's Name
Phạm Nhật Linh
Date Tested
Pass (Pass/Fail /Not Executed)

#	Prerequisites:
1	Customer enters bike barcode to rent bike

#	Test Data	Value
1	barcode	<u>12ab@#</u>

<u>Test Scenario</u> 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

Created By Phạm Nhật Linh

Test Case Description

Test the method validateBarcode

Đỗ Minh Thông

Version

1.0

QA Tester's Log

Review method validateBarcode

Tester's Name

Phạm Nhật Linh

Date Tested

Reviewed By

27/11/2020

Test Case Pass

(Pass/Fail /Not

Executed)

#	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
Created By Phạm Nhật Linh Reviewed By

Test the method checkRentingBike
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
				(Pass/Fail	
				/Not	
				Executed)	

#	Prerequisites:
1	Customer wants to return bike

#	Test Data	Value
1	bike's station	null

<u>Test Scenario</u> 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 Phạm Nhật Linh Reviewed By Dỗ 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
				(Pass/Fail	
				/Not	
				Executed)	

#	Prerequisites:
1	Customer wants to return bike

#	Test Data	Value
1	bike's station	Truong Dinh

<u>Test Scenario</u> 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 testValidateBarcodeBike

5.8.1. Test Case 1

Test Case IDTC019Test Case DescriptionTest the method validateBalanceCreated ByD\tilde{0} Minh ThôngReviewed ByPhạm Nhật LinhVersion1.0

QA Tester's Log Review method testValidateBarcodeBike

Tester's Name

Dô Minh Thông

Date Tested

28/11/2020

Test Case (Pass/Fail /Not Executed)

#	Prerequisites:
1	Customer wants to rent a bike with barcode

#	Test Data	Value
1	barcode	null

Test Scenario the barcode is null

Step#	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed /
				Suspended

1 check valid barcode invalid balance barcode	As Expected Pass
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5.8.2. Test Case 2

Test Case IDTC020Test Case DescriptionTest the method validateBalanceCreated ByD\tilde{0} Minh ThôngReviewed ByPhạm Nhật LinhVersion1.0

QA Tester's Log Review method testValidateBarcodeBike

Tester's Name

Dỗ Minh Thông

Date Tested

28/11/2020

Test Case (Pass/Fail /Not Executed)

#	Prerequisites:
1	Customer wants to rent a bike with barcode

#	Test Data	Value
1	barcode	STB01

Test Scenario ther barcode is valid

	Step#	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed /
ı					Suspended
	1	check valid barcode	valid barcode	As Expected	Pass

5.9. Test Case Specification for Test Case testCalculateAmount

5.9.1. Test Case 1

Test Case IDTC021Test Case DescriptionTest the method calculateMoneyCreated ByĐỗ Minh ThôngReviewed ByPhạm Nhật LinhVersion

QA Tester's LogReview method testCalculateAmount

Tester's Name	Đỗ Minh Thông	Date Tested	28/11/2020	Test Case	Pass
				(Pass/Fail	
				/Not	
				Executed)	

#	Prerequisites:
1	Customer return bike and request to pay the money

#	Test Data	Value
1	coefficient	1
2	time	23:40:00 25/12/2020

<u>Test Scenario</u> Customer rents bike in 2 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 IDTC022Test Case DescriptionTest the method calculateMoneyCreated ByD\tilde{0} Minh ThôngReviewed ByPhạm Nhật LinhVersion
1.0

QA Tester's Log Review method checkRentingBike

Tester's Name

Dỗ Minh Thông

Date Tested

28/11/2020

Test Case (Pass/Fail /Not Executed)

Prerequisites:

1 Customer return bike and request to pay the money

#	Test Data	Value
1	coefficient	1.5
2	time	23:00:00 25/12/2020

<u>Test Scenario</u> Customer rents bike in 45 minutes

	Step#	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
ľ	1	calculate money	13000	As Expected	Pass

5.10. Test Case Specification for Test Case testGetBikeById

5.9.1. Test Case 1

Test Case IDTC021Test Case DescriptionTest the method calculateMoneyCreated ByD\tilde{0} Minh ThôngReviewed ByPhạm Nhật LinhVersion1.0

QA Tester's Log Review method testGetBikeById

Tester's Name Đỗ Minh Thông **Date Tested** 28/11/2020 **Test Case** Pass

(Pass/Fail /Not Executed)

#	Prerequisites:
1	Check the bike is exist

#	Test Data	Value
1	id	1

Test Scenario The bike id is exist

	Step#	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed /
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				Suspended
1	check valid id	TRUE	As Expected	Pass