



# **Test Cases and Requirements Test Coverage**

Version 1.0

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## Document Change Record

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## Login Page Test Cases

System: LarkDetect	Sub-system: Login Page
Designed by: CoronaSG	Design Date: 24 March 2020
Executed by: LarkDetect Tester	Execution Date: 26 March 2020
Short Description: Testing Login Functional Requirements	

Test Case ID	NRIC	Password	Expected Result	Actual Result
TC01	Empty field	Correct Password	Return “Please Key in Your NRIC” in input field	Return “Please Key in Your NRIC” in input field
TC02	Correct NRIC (exists in database)	Empty field	Return “Please Key in Your Password” in input field	Return “Please Key in Your Password” in input field
TC03	Input is not 10 characters long (Length of an NRIC number)	Correct Password	Return “Invalid NRIC/Password” in input field	Return “Invalid NRIC/Password” in input field
TC04	Correct NRIC (exists in database)	Incorrect Password (does not match stored password for corresponding NRIC)	Return “Invalid NRIC/Password” in input field	Return “Invalid NRIC/Password” in input field
TC05	Incorrect NRIC (does not match any NRIC in database)	Correct Password	Return “Invalid NRIC/Password” in input field	Return “Invalid NRIC/Password” in input field
TC06	Correct NRIC (matches existing account in database)	Correct Password	Successful login – user is redirected to selection page	Successful login – user is redirected to selection page

## Registration Test Cases

System: LarkDetect	Sub-system: Login Page
Designed by: CoronaSG	Design Date: 24 March 2020
Executed by: LarkDetect Tester	Execution Date: 26 March 2020
Short Description: Testing Registration functionality	

Test Case ID	Gender	Name	NRIC	Email	Password	Re-Enter Password	DOB	Expected Result	Actual Result
TC07	Not Selected	Full name entered	Valid NRIC format	Valid format with existing email address domain	At least 8 characters including uppercase and lowercase characters, and a number	Matches the password entered in the previous field	Selected DOB	Selection icons highlighted with yellow color to catch user attention	Selection icons highlighted with yellow color to catch user attention
TC08	Selected	Empty field	Valid NRIC format	Valid format with existing email address domain	At least 8 characters including uppercase and lowercase characters, and a number	Matches the password entered in the previous field	Selected DOB	Return "Please Key In Your Full Name" in input field	Return "Please Key In Your Full Name" in input field
TC09	Selected	Full name entered	Empty field	Valid format with existing email address domain	At least 8 characters including uppercase and lowercase characters, and a number	Matches the password entered in the previous field	Selected DOB	Return "Please Key In Your Email" in input field	Return "Please Key In Your Email" in input field
TC09	Selected	Full name entered	Entered NRIC matches an existing record in the database	Valid format with existing email address domain	At least 8 characters including uppercase and lowercase characters, and a number	Matches the password entered in the previous field	Selected DOB	Return "Registered NRIC" in input field	Return "Registered NRIC" in input field
TC10	Selected	Full name entered	Invalid NRIC format	Valid format with existing email address domain	At least 8 characters including uppercase and lowercase characters, and a number	Matches the password entered in the previous field	Selected DOB	Return "Invalid NRIC" in input field	Return "Invalid NRIC" in input field
TC11	Selected	Full name entered	Valid NRIC format	Email domain does not fall into accepted domain	At least 8 characters including uppercase and lowercase characters, and	Matches the password entered in the previous	Selected DOB	Return "Invalid Email" in input field	Return "Invalid Email" in input field

					a number	field			
TC12	Selected	Full name entered	Valid NRIC format	Empty field	At least 8 characters including uppercase and lowercase characters, and a number	Matches the password entered in the previous field	Selected DOB	Return “Please Key In Your Email” in input field	Return “Please Key In Your Email” in input field
TC13	Selected	Full name entered	Valid NRIC format	Valid format with existing email address domain	Empty field	Empty field	Selected DOB	Return “Please Key In Your Password” in input field	Return “Please Key In Your Password” in input field
TC14	Selected	Full name entered	Valid NRIC format	Valid format with existing email address domain	Password does not contain one or more of the requirements: uppercase, lowercase, a number, minimum 8 characters	Matches the password entered in the previous field	Selected DOB	Return “At least an Uppercase & a Lowercase, a Number, 8 Characters” in input field	Return “At least an Uppercase & a Lowercase, a Number, 8 Characters” in input field
TC15	Selected	Full name entered	Valid NRIC format	Valid format with existing email address domain	At least 8 characters including uppercase and lowercase characters, and a number	Does not match the password entered in the previous field	Selected DOB	Return “Password Not Matched” in input field	Return “Password Not Matched” in input field
TC16	Selected	Full name entered	Valid NRIC format	Valid format with existing email address domain	At least 8 characters including uppercase and lowercase characters, and a number	Matches the password entered in the previous field	DOB Not Selected	Selection dropdown highlighted with yellow color to catch user attention	Selection dropdown highlighted with yellow color to catch user attention
TC17	Selected	Full name entered	Valid NRIC format	Valid format with existing email address domain	At least 8 characters including uppercase and lowercase characters, and a number	Matches the password entered in the previous field	Selected DOB	Successful registration, redirected to login page	Successful registration, redirected to login page

## Reset Password Test Cases

System: LarkDetect	Sub-system: Login Page
Designed by: CoronaSG	Design Date: 24 March 2020
Executed by: LarkDetect Tester	Execution Date: 26 March 2020
Short Description: Testing Reset Password functionality	

### Verification Page

Test Case ID	NRIC	DOB	Expected Result	Actual Result
TC18	Empty field	Selected DOB	Return “Please Key in Your NRIC” in input field	Return “Please Key in Your NRIC” in input field
TC19	Correct NRIC existing in database	DOB Not Selected	Return “Please Key in Your Birthday” in input field	Return “Please Key in Your Birthday” in input field
TC20	Empty field	DOB Not Selected	Return “Please Key in Your NRIC and Birthday” in input field	Return “Please Key in Your NRIC and Birthday” in input field
TC21	NRIC does not exist in database	Selected DOB	Return “Invalid NRIC/Birthday” in input field	Return “Invalid NRIC/Birthday” in input field
TC22	Correct NRIC existing in database	Selected DOB matches NRIC record in database	Verification successful, user is directed to the Password Reset Page	Verification successful, user is directed to the Password Reset Page

### Password Reset Page

Test Case ID	Password	Re-Enter Password	Expected Result	Actual Result

TC23	Empty field	Empty field	Return “Please Key in Your Password” in Password input field, return “Please Key in Your Password Again” in Password input field	Return “Please Key in Your Password” in Password input field, return “Please Key in Your Password Again” in Password input field
TC24	Password does not contain one or more of the requirements: uppercase, lowercase, a number, minimum 8 characters	Matches the password entered in the previous field	Return “At least an Uppercase & a Lowercase, a Number, 8 Characters” in input field	Return “At least an Uppercase & a Lowercase, a Number, 8 Characters” in input field
TC25	At least 8 characters including uppercase and lowercase characters, and a number	Matches the password entered in the previous field	Password successfully changed, user is redirected back to Login Page	Password successfully changed, user is redirected back to Login Page



## Home Page Test Case

System: LarkDetect	Sub-system: Test
Designed by: CoronaSG	Design Date: 24 March 2020
Executed by: LarkDetect Tester	Execution Date: 26 March 2020
Short Description: After patient login to their account and want to proceed to start test/ view record	

Test Case ID	Test Case	Expected Result	Actual Result
TC26	User do not have any test record history and click on the View Record image	"You do not have any existing record" message pop up	"You do not have any existing record" message pop up"
TC27	User has attempted the test 3 times within the same birthday year and click on the Start Test image	"You have used up all your attempt for this year! Please try again next year" message popup	"You have used up all your attempt for this year! Please try again next year" message popup
TC28	User has test record history and click on View Record image	User redirected to the record page	User redirected to the record page
TC29	User clicked on the start test and has done less than 3 attempts within the same birthday year	Welcome message popup	Welcome message popup

## Test A Test Case

System: LarkDetect	Sub-system: Test
Designed by: CoronaSG	Design Date: 24 March 2020
Executed by: LarkDetect Tester	Execution Date: 26 March 2020
Short Description: Perform Test A	

### Test A Page

Test Case ID	Point A (Start point)	Point B (End point)	Expected Result	Actual Result
TC30	Click on empty space in the test box	-	"Please Click on the circle" message pop up	"Please Click on the circle" message pop up
TC31	Point 1	Point 3	"Wrong! Please connect to the correct circle!" message pop out	"Wrong! Please connect to the correct circle!" message pop out
TC32	Start with 2	-	"Please start from 1" message pop up	"Please start from 1" message pop up
TC33	Point 1	Point 2	Lines connected from point 1 to point 2	Lines connected from point 1 to point 2
TC34	Start with 1	Consecutively connect the numbers up to 25	Test B instruction list pop up to indicate completion of Test A	Test B instruction list pop up to indicate completion of Test A

## Test B Test Case

System: LarkDetect	Sub-system: Test
Designed by: CoronaSG	Design Date: 24 March 2020
Executed by: LarkDetect Tester	Execution Date: 26 March 2020
Short Description: Perform Test B	

### Test B Page

Test Case ID	Point A (Start point)	Point B (End point)	Expected Result	Actual Result
TC35	Start with A	-	"Please start from 1" message pop out	"Please start from 1" message pop out
TC36	Point 1	Point A	Line connects the two points	Line connects the two points
TC37	Point 1	Point 2	"Wrong! Please connect to the correct circle!" message pop out	"Wrong! Please connect to the correct circle!" message pop out
TC38	Point G	Point H	"Wrong! Please connect to the correct circle!" message pop out	"Wrong! Please connect to the correct circle!" message pop out
TC39	Start with 1	End with L (all points connected)	View Result button pop out	View Result button pop out

## View Record Test Case

System: LarkDetect	Sub-system: Report
Designed by: CoronaSG	Design Date: 24 March 2020
Executed by: LarkDetect Tester	Execution Date: 26 March 2020
Short Description: View Report after the test	

Test Case ID	Action	Expected Result	Actual Result
TC40	Hover over the report graph	Each year test results will be shown in the legend	Each year test results will be shown in the legend
TC41	Return to Home Page and click View Report	Each year test results will be shown in the legend.  Latest test result will be shown on the left, while the right side will show the graph	Each year test results will be shown in the legend  Latest test result will be shown on the left, while the right side will show the graph

## Doctor Test Case

System: LarkDetect	Sub-system: Report
Designed by: CoronaSG	Design Date: 24 March 2020
Executed by: LarkDetect Tester	Execution Date: 26 March 2020
Short Description: Testing authorized access for doctors to view all user test records	

### Test A Page

Test Case ID	Action	Expected Result	Actual Result
TC42	Login with NRIC 'S9972582F' and Password 'Passw0rd' check the doctor checkbox	Doctor view full records	Doctor view full records
TC43	Login with NRIC 'S9972583D' and Password 'Passw0rd' check the doctor checkbox	Return 'Invalid NRIC or Password'	Return 'Invalid NRIC or Password'

## Requirement Test Report

In LarkDetect we have 4 requirements and 43 test cases.

- ➔ First Requirement involves Registration Test Cases -> Login Test Cases ->Reset Password Test Cases -> Login Test Cases
- ➔ Second Requirement involves Login Test Cases -> Home Page Test Cases ->Test A Test Cases -> Test B Test Cases -> View Report
- ➔ Third Requirement involved Login Test Cases -> Home Page Test Cases -> View Report
- ➔ Forth Requirement involved Doctor Test Cases

Requirement	Priority	Test Type Count	Test Case count	Last Passed	Last Tested
1 <sup>st</sup> Requirement	High	4	31	Login Test Cases	Test Case 06 (Count 31)
2 <sup>nd</sup> Requirement	High	5	22	View Report	Test Case 41 (Count 22)
3 <sup>rd</sup> Requirement	Medium	3	12	View Report	Test Case 41 (Count 12)
4 <sup>th</sup> Requirement	Medium	1	2	Doctor Test Cases	Test Case 43 (Count 2)