

Lighting Pattern Simulator

TEST REPORT

Version <2.0>

<24/04/18>

VERSION HISTORY

Version #	Implemented By	Date
1.0	Paridhi Gehlot (B16CS024) Satya Bhavsar (B16CS033)	1/04/18
2.0	Chinmay Garg (B16CS041) Anurag Shah (B16CS034) (GROUP 10)	10/04/18
3.0	Paridhi Gehlot (B16CS024) Satya Bhavsar (B16CS033)	24/04/18

Table of Contents

1.0	INTRODUCTION	5
1.1	Purpose	
2.0	TEST PLAN	5
3.0	DETAILS OF UNIT TESTING	5
3.1	Enter_Details (Test ID: 01)	5
3.1.1	Test Items	5
3.1.2	Features to Be Tested	5
3.1.3	Item Pass/Fail Criteria	5
3.2	Cover (Test ID: 02)	6
3.2.1	Test Items	6
3.2.2	Features to Be Tested	6
3.2.3	Item Pass/Fail Criteria	6
3.3	Verify_login (Test ID: 03)	7
3.3.1	Test Items	7
3.3.2	Features to Be Tested	7
3.3.3	Item Pass/Fail Criteria	7
3.4	Display_history (Test ID: 04)	7
3.4.1	Test Items	7
3.4.2	Features to Be Tested	7
3.4.3	Item Pass/Fail Criteria	7
3.5	Cover_customer (Test ID: 05)	9
3.5.1	Test Items	9

3.5.2	Features to Be Tested	9
3.5.3	Item Pass/Fail Criteria	9
4.0	DETAILS OF SYSTEM TESTING	10
4.1	Item 1	10
4.2	Item 2	10
4.3	Item 3	11
5.0	UNRESOLVED TEST INSTANCES	11

1.0 INTRODUCTION

1.1 PURPOSE

The test report will provide summary of test cases generated and also gives its status i.e. whether the software has passed that particular test case or not.

2.0 TEST PLAN

The function of the software will be tested by first drawing control flow graph (using Statement Coverage) and generating test cases with its help.

3.0 DETAILS OF UNIT TESTING

3.1 Enter_Details (Test ID: 01)

3.1.1 Test Items: name, contact_no

3.1.2 Features To Be Tested: Validity of name and contact_no entered by user.

3.1.3 Item Pass/Fail Criteria: Test item passes if valid name and contact_no are accepted and exception is thrown in case of invalid name and contact_no.

S. No.	Test Case	Intended Result	Actual Result	Pass/Fail	Comments
1.	name=s1	Error message (name cannot contain digit) and retake name as input.	Error message (name cannot contain digit) and retake name as input.	Pass	Proper exception handling done for name
2.	name= customer, contact_no=902	Error message (length of contact_no should be 10) and retake contact_no as input.	Error message (length of contact_no should be 10) and retake contact_no as input.	Pass	Proper exception handling done for contact_no
3.	name= customer, contact_no=998169028t	Error message (contact_no should only contain numbers) and retake contact_no as input.	Error message (contact_no should only contain numbers) and retake contact_no as input.	Pass	Proper exception handling done for contact_no
4.	name=customer, contact_no=9981690283	Accept name and contact_no	Accepted name and contact_no	Pass	None

3.2 Cover (Test ID: 02)

3.2.1 Test Items: option

3.2.2 Features To Be Tested: Proper functioning of Cover on entering option.

3.2.3 Item Pass/Fail Criteria: Test item passes if Cover does specified function on entering option value 1, 2 or 3 and exception is thrown for any other value of option.

S. No.	Test Case	Intended Result	Actual Result	Pass/Fail	Comments
1.	option=1	Accepts option and calls enter_details() and cover_customer	Accepted option and calls enter_details() and cover_customer	Pass	None
2.	option=2	Accepts option and calls Display_history()	Accepted option and calls Display_history()	Pass	None
3.	option=3	Accepts option and exits software.	Accepts option and exits software.	Pass	None
4.	option=4	Error message and retake input option	Error message and retake input option	Pass	Proper exception handling done for option
5.	option=g	Error message and retake input option	Error message and retake input option	Pass	Proper exception handling done for character input in option

3.3 Verify_Login (Test ID: 03)

3.3.1 Test Items: username,password , opt_int.

3.3.2 Features To Be Tested: Logging admin in only on entering correct username and password.

3.3.3 Item Pass/Fail Criteria: Test item passes if admin gets logged in when correct username and password are entered, otherwise exception is thrown.

S. No.	Test Case	Intended Result	Actual Result	Pass/Fail	Comments
1.	name=wrong, password=wrong2	Error message and retake input name and password.	Error message and retake input option	Pass	Proper exception handling done.
2.	name=softwaare, pass=lightpatternsimulator	Name and password accepted, admin is logged in and call cover() function	Name and password accepted and call cover() function	Pass	None

3.4 Display_History(Test ID: 04)

3.4.1 Test Items: c_name, c_contact_no,choice

3.4.2 Features To Be Tested: Showing history of customer when existing customer details are entered.

3.4.3 Item Pass/Fail Criteria: Test item passes if history of customer is displayed when existing customer name(c_name) and contact number(c_contact_no) are entered, and exception is thrown otherwise and choice is input.

S. No.	Test Case	Intended Result	Actual Result	Pass/Fail	Comments
1.	c_name=abc, c_contact_no=999999, file is empty, choice=1	Error message(customer does not exist), choice is taken as input and Display_history() is called	Error message(customer does not exist), choice is taken as input and Display_history() is called	Pass	Exception handling done for non existing customer details.
2.	c_name=abc, c_contact_no=999999, file is empty, choice=2	Error message(customer does not exist), choice is taken as input and exit() function called	Error message(customer does not exist), choice is taken as input and exit() function called	Pass	Exception handling done for non existing customer details.
3.	c_name=abc, c_contact_no=999999, file is empty, choice=d	Error message(customer doesnot exist), choice is taken as input. Error message for incorrect choice is shown and choice is retaken as input	Error message(customer doesnot exist), choice is taken as input. Error message for incorrect choice is shown and choice is retaken as input	Pass	Exception handling done for non existing customer details and for choice
4.	c_name=student, c_contact_no=7212342311, file contains the above customer details	The design for specified customer is shown	The design for specified customer is shown	Pass	None

3.5 Cover_Customer (TEST ID: 05)

3.5.1 Test Items:buil_no, pattern_no,option

3.5.2 Features To Be Tested: Display and confirmation of simulated pattern on building on entering valid building number, pattern number and option.

3.5.3 Item Pass/Fail Criteria: Item passes if final design is displayed and confirmed when valid buil_no, pattern_no and option are entered, and exception is thrown otherwise.

S. No.	Test Case	Intended Result	Actual Result	Pass/Fail	Comments
1.	buil_no=d	Error message and retake buil_no.	Error message and retake buil_no.	Pass	Exception handling done for invalid buil_no
2	buil_no=2 pattern_no=f	buil_no accepted but pattern_no not accepted and Error message.	Error message and retake pattern_no.	Pass	Exception handling done for invalid pattern_no
3.	buil_no=3 pattern_no=2 option=1	buil_no and pattern_no accepted and design associated with customer should be written to file	buil_no and pattern_no accepted and design associated with customer is written to file	Pass	None
4.	buil_no=1 pattern_no=4 option=2	buil_no and pattern_no accepted and Cover() should be called	buil_no and pattern_no accepted and Cover() is called	Pass	None
5.	buil_no=4 pattern=1 option=d	buil_no and pattern_no accepted. Error message for option and retake option as input	buil_no and pattern_no accepted. Error message for option and retake option as input	Pass	Exception handling done for invalid option

4. DETAILS OF SYSTEM TESTING

4.1 ITEM 1 –ADMIN LOGIN

Step	TEST STEP/ INPUT	Intended Result	Actual Result	Pass/Fail	Comments
1	Enter username and password (username= software, password=lightpatternsimulator)	Menu for admin (Cover)is displayed	Menu for admin (Cover)is displayed	Pass	None

4.2 ITEM 2-DISPLAY AND CONFIRM FINAL DESIGN

Step	TEST STEP/ INPUT	Intended Result	Actual Result	Pass/Fail	Comments
1.	Enter option (option=1)	Option is accepted. Username is asked.	Option is accepted. Username is asked.	Pass	None
2.	Enter the name (name=customer)	Name should be accepted and password should be asked for.	Name is accepted and password is asked	Pass	None
3.	Enter the contact number(contact_no=9981690 283)	Building types should be displayed.	Building types are displayed.	Pass	None
4.	. Choose building type (option=1)	Corresponding patterns should be displayed	Corresponding patterns are displayed	Pass	None

5.	Choose light pattern (option=3)	Menu for confirmation/exit should be displayed	Menu for confirmation/exit is displayed	Pass	None
6.	Enter option to confirm design or exit. (option=1)	Design associated with customer saved in database	Design associated with customer saved in database	Pass	None

4.3 ITEM 3- DISPLAY USER HISTORY

Step	TEST STEP/ INPUT	Intended Result	Actual Result	Pass/Fail	Comments
1.	Enter option (option=2)	Details of customers are asked for	Details of customers are asked for	Pass	None
2.	Enter the name and contact number of customer (name=customer, contact_no=9981690283)	User history,i.e.,design selected by the customer whose details are entered is shown	User history,i.e.,design selected by the customer whose details are entered is shown	Pass	None

5. SYSTEM TESTING BY TESTING TEAM

5.1 ADMIN LOGIN

(username = bro, password = bro)

Step	INPUT	Intended Result	Actual Result	Pass/ Fail	Comments
1	bro bro	Enter the password:	Enter the password:		
	bro_bro_ (_ = space)	Incorrect username or password. Press any key to retry.	Incorrect username or password. Press any key to retry.		
	a	Enter the username:	Enter the username: Enter the password:	Fail	
2	After inputting both username and password with multiple spaces, when correct username (bro) and correct password (bro) is entered.	Choose the option :	Incorrect username or password. Press any key to retry.	Fail	
3	Correct username (bro) and correct password (bro)	Choose the option :	Choose the option :	Pass	

5.2 DISPLAY AND CONFIRM FINAL DESIGN

Step	TEST STEP/ INPUT	Intended Result	Actual Result	Pass/ Fail	Comments
1.	Enter option (option=1)	Option is accepted. Username is asked.	Option is accepted. Username is asked.	Pass	None
2.1	Enter the name (name = abc abc)	Invalid input.	Enter the contact no: Invalid Contact number.	Fail	None
2.2	Enter the name (name = abc)	Enter the contact no:	Enter the contact no:	Pass	
3.1	Enter the contact number (contact_no=01234567 899)	Contact number accepted	Invalid contact number.	Fail	Tel. No. are of 11 digits (with STD code)
3.2	Enter the contact number (contact_no=01234567 89)	Contact number accepted	Contact number accepted	Pass	
4.	. Choose building type (option=1)	Corresponding patterns should be displayed	Corresponding patterns are displayed	Pass	None
5.	Choose light pattern (option=3)	Menu for confirmation/exit should be displayed	Menu for confirmation/exit is displayed	Pass	None
6.	Enter option to confirm design or exit. (option=1)	Design associated with customer saved in database	Design associated with customer saved in database	Pass	None

5.3 REGISTERING A USER MULTIPLE TIMES

Step	TEST STEP/ INPUT	Intended Result	Actual Result	Pass /Fail	Comments
1.	Enter option (option=1)	Username is asked.	Username is asked.		Already tested
2.	Enter the name (name=abc)	Name should be accepted and password should be asked for.	Name is accepted and password is asked		“
3.	Enter the contact number(contact_no=0123456789)	Building types should be displayed.	Building types are displayed.		“
4.	. Choose building type (option=2)	Corresponding patterns should be displayed	Corresponding patterns are displayed		“
5.	Choose light pattern (option=3)	Menu for confirmation/exit should be displayed	Menu for confirmation/exit is displayed		“
6.	Enter option to confirm design or exit. (option=1)	Design associated with customer saved in database	Design associated with customer saved in database		“

NOTE:

Now same user (abc) with contact number (0123456789) is registered twice with combination of building type and light pattern as (1,3) and (2,3).

Step	TEST STEP/ INPUT	Intended Result	Actual Result	Pass/Fail	Comments
7	Enter option (option=2)	Details of customers are asked for	Details of customers are asked for	Pass	None
8	Enter the name and contact number of customer (name=abc, contact_no=0123456789)	Both the designs selected by the customer are shown	Only the last design selected by the customer is shown	Fail	None

Comments by testing team:

- i. Program exits after viewing customer history.
- ii. No option to edit admin details or customer details.
- iii. No login for customer, he/she may wish to view his history.
- iv. On entering invalid contact number (or any invalid data), program asks for a valid contact number (or the valid data) for infinite times.
- v. No option to add more designs.
- vi. Additional features may be added to the software.

6. UNRESOLVED TEST INSTANCES

Test Case ID	Summary of Defect	Why not resolved
None	None	None