Test Case
Specification Report

for

Elevator Simulator

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Floor Button Display Testing

Sr. No.	Condition to be Tested	Test Settings and Actions	Expected Output	Verdict
1	Floor UpButton glowing (Single Button Test)	Floor UpButton Color-Black; Button Clicked on Floor 6	Color Changes to Cyan	PASSED
2	Floor UpButton glowing (Multi Button Test)	Floor UpButton Color-Black; Button Clicked on Floor 2,7,8,9 Floor	UpButton Color Changes to Cyan (on all floors)	PASSED
3	Floor DownButton glowing (Single Button Test)	Floor DownButton Color-Black; Button Clicked on Floor 5	Floor DownButton Color Changes to Purple	PASSED
4	Floor DownButton glowing (Multi Button Test)	Floor DownButton Color-Black; Button Clicked on Floor 1,2,7,8,6	Floor DownButton Color Changes to Purple (on all floors)	PASSED
5	Hover Color Change Testing 1	Floor UpButton Color-Black; Hovered over the button	UpButton Color changes to Cyan	PASSED
6	Hover Color Change	Testing 2 Floor UpButton Color-Cyan; Hovered over the button	UpButton Color remains Same	PASSED
7	Hover Color Change Testing 3	Floor DownButton Color-Black;	DownButton Color changes to Purple	PASSED

		Hovered over the button		
8	Hover Color Change Testing 4	Floor DownButton Color-Purple; Hovered over the button	DownButton Color remains Same	PASSED

Panel Display Testing

Sr. No.	Condition to be Tested	Test Settings and Actions	Expected Output	Verdict
1	Panel Selection on Hover	Panel background Color-White; Hovered over Panel 2	Panel Background Color Changes to Apple Green	PASSED
2	Button Hover Test	Panel Button Text Color-Black; Hovered over Panel 3-Button 5	Panel 3-Button 5 text color changes to Red	PASSED
3	Button Glow on Click Panel	Button Background Color- Grey; Clicked on Panel 1-Button 6	Panel Button Background Color changes to Yellow	PASSED
4	Button Glow on Click (Open and Close Gate Button)	Panel Button Background Color- Grey; Clicked on Panel 1-Button <|>	Panel Button Background Color changes to Yellow	FAILED (Color does not change)
5	Alarm Button Testing (Idle or Moving)	Alarm Button Background Color- Grey; Click on Panel-2 Button A	Alarm Button Background Color changes to Red	PASSED
6	People Button Test 1	Elevator 1 Gate Closed; Clicked on	No. of People inside lift does not increase;	PASSED

		button +	Display shows the previous count;	
7	People Button Test 2	Elevator 1 Gate Closed; Clicked on button -	No. of People inside lift does not decrease; Display shows the previous count;	PASSED
8	People Button Test 3	Elevator 1 Gate Open; Clicked on button +, n no. of times	No. of People inside lift increase by n; Display shows the updated count;	PASSED
9	People Button Test 4	Elevator 1 Gate Open; Clicked on button -, n no. of times	No. of People inside lift de-crease by n; Display shows the updated count;	PASSED
10	People Counter Background Color Change	Test Elevator-3 gate open; People Counter Background Color-White; People Count exceeds 6	People Counter Background Color Changes to Red	PASSED
11	People Counter Background Color Change Test	Elevator-3 gate open; People Counter Background Color-Red; People Count is below 6	People Counter Background Color Changes to White	PASSED
12	People Counter Lower Bound Test	Elevator 1 Gate Open; People Count=0	People Counter displays 0	PASSED

		Clicked on button -		

Panel Button Sound Testing

Sr. No.	Condition to be Tested	Test Settings and Actions	Expected Output	Verdict
1	Alarm Button Sound Playing	Alarm Button Background Color:-Grey;	Panel-1Button A Clicked Warning Sound is Played	PASSED
2	Alarm Button Sound Playing Without disturbing Other Functionalities	Alarm Button Background Color:-Grey;Panel-1Button A Clicked	No Functionalities should be disturbed	FAILED(Whole System is Paused for Some time while Sound is being Played)

Elevator Display and Scheduling Testing

Sr. No.	Condition to be Tested	Test Settings and Actions	Expected Output	Verdict
1	Open Gate Color Change	Gate is Closed or Closing;Gate is Opening or Opened	Gate Color changes to Yellow(with Animation)	PASSED
2	Close Gate Color Change	Gate is Opening or Opened;Gate is Closed or Closing	Gate Color changes to Green(with Animation)	PASSED
3	Same Floor Button Test 1	Button is Pressed on Current Floor of Elevator	Elevator gate Opens and Closes after some time	PASSED
4	Panel Same Floor Request	Current Floor Button is Pressed from the Panel of any Elevator	Elevator gate Opens and Closes after some time	PASSED
5	Open Door button Test 1	Elevator is closed and Idle;Open	Elevator gate Opens and	PASSED

		door Button Pressed	Closes after some time	
6	Open Door button Test 2	Elevator is closed and Moving;Open door Button Pressed	Nothing happens	PASSED
7	Open Door button Test 3	Elevator door is closing;Open door Button Pressed	Elevator gate Opens from Closing Point itself and Closes after some time	PASSED
8	Close Door button Test	Elevator gate is Opening or Opened;Close door Button Pressed	Elevator gate closes from opening point itself and remains closed	PASSED
9	Alarm Button Test 1	Elevator 1 Moving;Alarm Button Pressed from Panel-1	Elevator stops at the nearest possible floor in Moving direction and permanently halts there after opening it's gate.	PASSED
10	Alarm Button Test 2	Elevator 1 Idle;Alarm Button Pressed from Panel-1	Elevator permanently halts after opening it's gate	PASSED
11	Button Test (After Permanent halting of Elevator)	Elevator 1 halted permanently;Any Button Pressed from Panel-1	Nothing happens	PARTIAL FAILURE(No movement of Elevator but Button Color changes to yellow)
12	Elevator Sensor Test 1	Elevator-3 gate ;Button + or – is Pressed from Panel-3	Elevator gate reopens from that position itself	PASSED
13	Elevator Sensor Test 2	Elevator-3 gate Opening or Open or Closing;People Count exceed 6	Elevator gate Opens and waits on the current floor with gate	PASSED

			Open	
14	Elevator Sensor Test 3	Elevator-3 gate Opened;People Count becomes <= 6	Elevator gate Closes	PASSED
15	Elevator Halting Functionality Test 1	Elevator waiting on the current floor with gate Open;Button is Pressed from the Panel	Elevator moves to the destination floor when people count becomes <=6	PASSED
16	Elevator Halting Functionality Test 2	Elevator waiting on the current floor with gate Open;Floor Button is Pressed	Elevator moves to the destination floor when people count becomes <=6 but does not take part in Scheduling!	PASSED
17	Elevator Halting Functionality Test 3	All Elevator waiting on the respective floor with gate Open;Floor Button is Pressed	That Elevator moves to the destination floor whose people count becomes <=6 earliest(No Prior Scheduling)	PASSED
18	Multiple Panel Buttons Pressed one after another	Elevator-1 On Ground;Request from Panel in order -2,8,6,3,5,9	Elevator-1 goes to floor in Order-2,3,5,6,8,9	PASSED
19	Multiple Panel Buttons Pressed with Interval	Elevator-2 On Ground;Request from Panel in order -9,2 ; After it crosses floor 6 request from Panel in Order-6,8,3	Elevator-1 goes to floor in Order-2,8,9,6,3	PASSED
20	All buttons Pressed on all Panels-1(Using test.py file)	All Elevators on Ground;All panel Buttons are pressed using code for all the	All Elevators move simultaneously to each floor and halts at Floor 9	PASSED

		Elevators		
21	All buttons Pressed on all Panels-2(Using test.py file)	All Elevators on Floor 9;All panel Buttons are pressed using code for all the Elevators	All Elevators move simultaneously to each floor and halts at Floor 0	PASSED
22	Scheduling Test 1	Elevator1-floor 6;Elevator2-floor 2;Elevator3-floor 0;Elevator4-floor 2;Floor Button 9 Down then 5 Down pressed	Elevator-1 goes to floor 9;Elevator-2 or 4 goes to floor 5	FAILED(Elevator-1 goes to Floor 9 and then Floor-5)
23	Scheduling Test 2	Elevator1-floor 6;Elevator2-floor 2;Elevator3-floor 0;Elevator4-floor 2;Floor Button 9 Down then 5 Up pressed	Elevator-1 goes to floor 9;Elevator-2 or 4 goes to floor 5	PASSED
24	Scheduling Test 3	All Elevators on Ground;Panel-1-Floor 9;Floor 6 – Up;Floor 8-Down;After Crossing Floor 5 by Elevator-1 , Press Floor 5 -Up	Elevator-1 completes the request in Order:-1,6,8,9Any Other Elevator completes request for Floor-5	PASSED
25	Scheduling Test 4	All Elevators on Ground;Panel-1-Floor 9;Floor 6 – Up;Floor 8-Down;After Crossing Floor 5 by Elevator-1 , Press Floor 5 -Down	Elevator-1 completes the request in Order:-1,6,8,9Any Other Elevator completes request for Floor-5	FAILED(Elevator-1 goes to Floor 9 and then Floor-5)
26	Scheduling Test 5	Elevator1-floor 4;Elevator2-floor 8;Elevator3-floor 0;Elevator4-floor	Elevator-2 goes to Floor 7,6Elevator-4 goes to Floor-	PASSED

		2;Floor 7 – Up;Floor 6-Down;Floor 3-Down;Floor 1-Up;Floor 9-Down;Floor 6-Up;	3Elevator-3 goes to Floor-1Elevator-2 goes to Floor 9Elevator-1 goes to Floor 6	
27	Scheduling Test 6	Elevator1-floor 7;Elevator2-floor 6;Elevator3-floor 1;Elevator4-floor 3;Floor 4 – Up;Floor 2-Down;Floor 3-Down;Floor 5-Down;Floor 6-Up;	Elevator-4 goes to Floor 4; Elevator-3 goes to Floor-2; Elevator-4 goes to Floor-3;Elevator-2 goes to Floor 5,6	PASSED
28	Elevator Panel request acceptance without any Person Inside	Elevator-1 is Idle and at Ground; Person count=0;Panel Button-2 is pressed	Nothing Should happen! (As there is no one to press button)	FAILED(Elevator goes to Floor-2)
29	Elevator Panel request acceptance without any Person Inside	Elevator-1 is Idle and at Ground; Person count=0;Floor Button-2 is pressed	Elevator completes requests normally with Proper Scheduling	PASSED