

Requirement ID	Requirement Description	Use case ID	Design element ID-H	Design element ID-L	Code element-H	Code element-L	Class Name	Test Case Number	Test Case Description	Pass/Fail	Remarks
RQ1	A guest shall be able to operate the elevator using the number pad located inside.	1	N/A	user_input.java	N/A	controller()	user_input	TC1	Operate the number pad	Pass	Passed all test cases
RQ2	In car users shall have priority over call button users of the same level and below	2	N/A	order.java	N/A	floor_order()	order_check	TC2	Priority over call buttons	Pass	Passed all test cases
RQ3	An elevator shall stop for a call, when this call is coming from somewhere in the direction of travel of the elevator.	4	N/A	control.java	N/A	direction_check()	control_call	TC3	Stops when it receives a call	Fail	Failed the edgcases so we are dealing with them
RQ4	In case of an Emergency Alert is sent to the Admin	7	N/A	sos.java	N/A	emergency()	sos_help	TC4	Emergency cab response	Pass	Passed all test cases
RQ5	During the Emergency/Power Failure the lift stops at the nearest floor in direction of motion.	6	N/A	sos.java	N/A	emergency()	sos	TC5	Emergency response	Pass	Passed all test cases
RQ6	All logs about the movement of lift are sent to the admin	13	N/A	operator.java	N/A	operator_control()	operate	TC6	Operator control	Pass	Passed all test cases
RQ7	After the traveler exits the elevator doors remain open for 20 seconds before closing.	15	N/A	control.java	N/A	door_check()	door_checker	TC7	Door interval check	Fail	Failed the edgcases so we are dealing with them
RQ8	There shall be access key to open the elevator doors in case of any door malfunction.	14	N/A	operator.java	N/A	door_control()	malfunction_check	TC8	Door function check	Pass	Passed all test cases
RQ9	Display shows the current floor in idle or stopped state and the approaching floor in moving state.	3	N/A	check.java	N/A	move_state()	display	TC9	Display check for state and floor	Pass	Some cases are not tested
RQ10	There shall be one up and down call button on each floor to call the next available elevator	4	N/A	control.java	N/A	controller()	control_call	TC10	Button check	Pass	Passed all test cases
RQ11	Whenever a person leaves or enters the lift the total weight of the lift and total no of people in the lift is checked	10	N/A	limit_check.java	N/A	weight_safety()	arrival	TC11	Check for weight and person count	Pass	Some cases are not tested
RQ12	If the total weight of the lift or total no of persons in the lift is above the capacity, the doors remain open When the call button is pressed which elevator is going to come, is determined by 'minimum wait' schedule first and by the 'minimum travel' schedule second.	12	N/A	limit_check.java	N/A	weight_safety()	door_checker	TC12	Door operation on exceeding weight limit	Pass	Passed all test cases
RQ13	Bell makes sound on arriving to a new floor while opening the doors.	11	N/A	order.java	N/A	floor_order()	order_check	TC13	Floor order generator	Pass	Some cases are not tested
RQ14	Bell makes sound in case of an emergency until the lift stops at the nearest floor and the doors open.	5	N/A	control.java	N/A	door_control()	sound_feature	TC14	Arrival reaction/response	Pass	Passed all test cases
RQ15	In elevator cabs user shall have priority over call button users of the same level and below	6	N/A	sos.java	N/A	emergency()	sound_feature	TC15	Response to emergency	Pass	Passed all test cases
RQ16	When idle elevator shall wait there only for the new request	11	N/A	user_input.java	N/A	floor_order()	order_check	TC16	Floor order	Pass	Some cases are not tested
RQ17		5	N/A	control.java	N/A	controller()	cab_controller	TC17	Idle condition check	Pass	Passed all test cases
RQ18	Failure requests should be sent	7	N/A	sos.java	N/A	emergency()	sos_help	TC18	Checking failure conditions	Fail	Failed the edgcases so we are dealing with them
RQ19	Log report should be provided on request	9	N/A	report.java	N/A	report()	generate_log	TC19	Report generation	Pass	Passed all test cases
RQ20	Checking of max floor should be done		N/A	check.java	N/A	direction_check()	door_checker	TC20	Movement check	Fail	Failed the edgcases so we are dealing with them
RQ21	If weight isn't in limit then warning should be generated	12	N/A	limit_check.java	N/A	weight_safety()	door_checker	TC21	Checking ideal weight limit	Pass	Passed all test cases
RQ22	Check for valid credentials should be done	13	N/A	check.java	N/A	checker()	check_detail	TC22	Password and id check	Pass	Passed all test cases
RQ23	Whenever the call button is pressed it shall be decided in order of minimum wait than minimum serve time	3	N/A	control.java	N/A	floor_order()	order_check	TC23	Confirming order requests	Pass	Some cases are not tested
RQ24	Controller shall be able to redirect it to any floor as per the usage	11	N/A	control.java	N/A	controller()	control_call	TC24	Checking cab movements	Pass	Passed all test cases
RQ25	Emergency floors should be the nearest reachable at the instant	6	N/A	sos.java	N/A	emergency()	sos_help	TC25	Handling emergency calls	Pass	Passed all test cases
RQ26	Lights shall work on opening of doors	14	N/A	control.java	N/A	door_control()	door_checker	TC26	Checking lights	Pass	Passed all test cases
RQ27	On emergency, pending requests should be cleared	7	N/A	sos.java	N/A	emergency()	sos_help	TC27	Clearing pending request	Pass	Passed all test cases
RQ28	Log report shall have exact time details of the user	9	N/A	report.java	N/A	report()	generate_log	TC28	Checking report detail	Pass	Passed all test cases