**#1 Manual - QA an Elevator**

**Scenario:**

* **You have to QA a 10 story new elevator. The elevator needs to be available on the opening day of the building in 1 week.**
* **Write tests scenarios that you would execute to ensure the elevator is ready to use in time for the release.**
* **The 5th floor will have a broken elevator button. What do you do?**

Since the opening of the elevator is already in a week, we will not have time to test the all functionality.

I will start with the smoke testing - the goal is to check the basic functionality.

Smoke testing means making sure that the release candidate is stable and all major components are working. It’s kind of like the home inspection performed before buying a house.

* Elevator is capable of moving up and down.
* It is stopping at each floor.
* It moves exactly to that floor when corresponding floor no is pressed.
* It moves up when called from upward and down when called from downward.
* If anyone steps in between the door at the time of closing, door should open.

Here I’ll find out that - The 5th floor will have a broken elevator button – and create the bug immediately.

Smoke testing validates a release candidate to ensure that it’s ready to be tested.

Then need to carry out regression testing.

All positive tests first.

Go through requirements.

**Outside Elevator**

* You can call elevator from every floor
* Elevator must not open doors while moving when “open doors” button is pushed.
* Elevator alerts arrival with a sound
* The elevator doors open within a required amount of time after arrival
* The elevator doors remain open within a required amount of time
* Elevator doors reopen when blocked during closure

**Inside Elevator**

* Pressing all buttons from bottom floor causes elevator to stop at each ascending floor in succession.
* Pressing all buttons from top floor causes elevator to stop at each descending floor in succession.Check all floors buttons stoppage
* Check all emergency buttons
* check for fan and light buttons
* check for the calling phone is working
* Elevator travels in the same direction until all illuminated buttons have extinguished in that direction.
* Elevator changes direction when there are no more illuminated buttons in that direction.
* Elevator remains at the last delivered floor until called upon.
* Floor numbers are accurate and clearly visible upon reaching their corresponding floors.
* Lift when empty, should not move.
* There should be emergency contact information listed inside the lift

**PERFORMANCE TESTS**

* The amount of time (speed) elevator travels between floors meets specification.
* The amount of time elevator waits between opening and closing doors meets specification.

**SECURITY TESTS**

* STOP button causes elevator to stop.
* Pressing ALARM button reaches security within specified amount of time.
* Verify elevator’s maximum weight capacity meets or exceeds specification.

**USABILITY TESTS**

* The lift should have all numbers starting from the basement to the top floor of the building.
* The lift should have close and open button which can be pressed while each stop.
* Each time lift gets stopped on any floor then it shall display the number of floors on the LED display.
* Each time lift gets stopped on any floor then it shall announce the number of floors.
* Lift’s should be made such that it the user can get comfortably stand while the movement.
* The lift should properly display stating the maximum and minimum range or weight and people allowed in it.

**LOAD TESTS**

* At which load does the elevator break? Test this between floors.
* At which load does elevator refuses to move?