Activity Process of Lift

1. Arrive at lift
2. Press button to call lift.
   1. In doing so you press up/down.
      1. This lets the lift plan ahead to know which stops to go too.
   2. Where is the lift currently?
3. Lift arrives.
4. Doors open.
5. You go in.
6. Lift runs object detection.
   1. If no one in the way. Doors close.
7. Once doors close.
8. Lift goes to floor.
9. Someone on a different floor calls lift.
   1. In doing so press up/down.
10. Lift continues to its destination from previous user.
11. Once at destination, lift calculates most efficient route that includes picking up any new users (that may put in a new floor).
    1. This part of logic.
12. Left arrives at next floor.
    1. Repeats process.

States of lift:

1. Moving up
   1. Does shall not open/close
2. Moving down
   1. Doors shall not open/close
3. Idle (when at floor)
   1. Doors can open
   2. Doors can close
4. Emergency