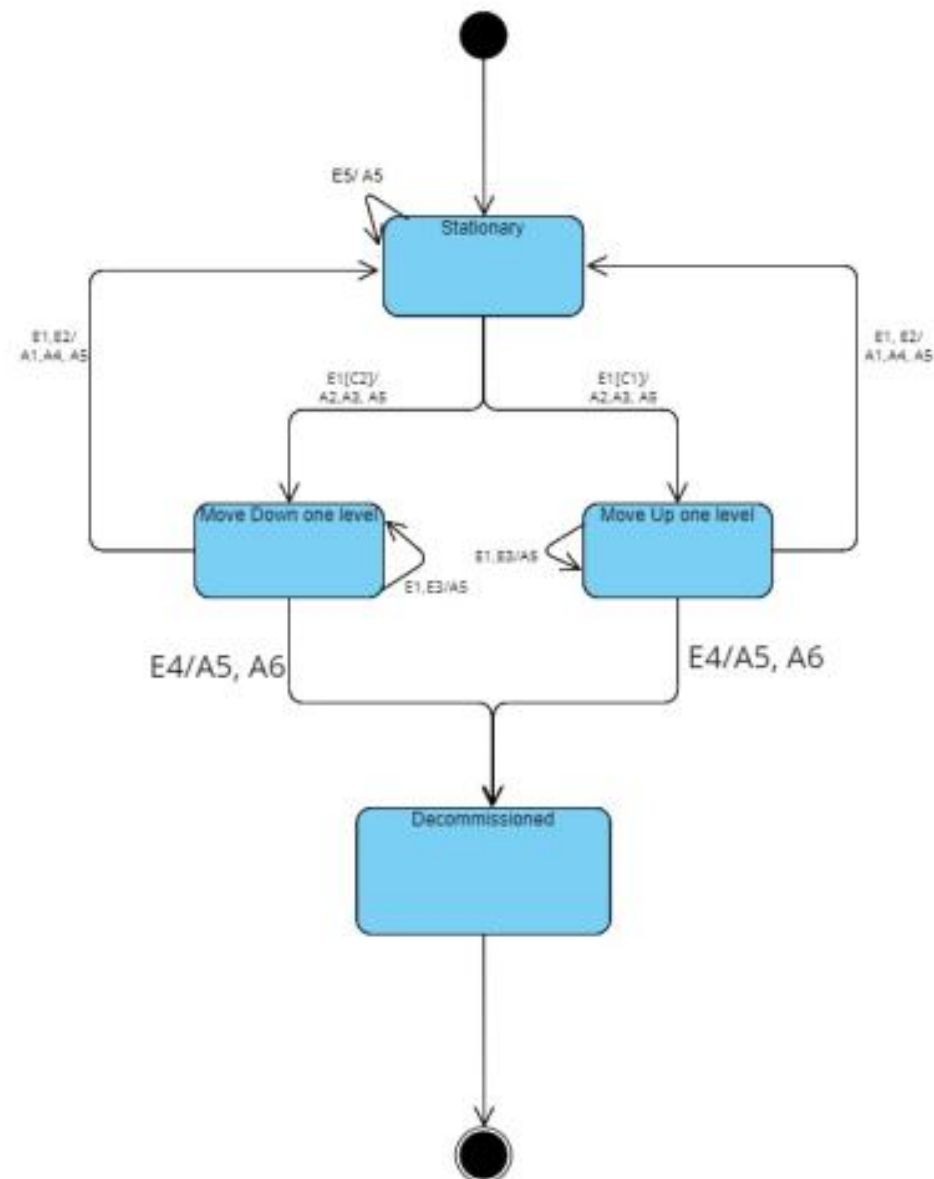


Elevator State Diagram



Events:

E1: Request received from scheduler
 E2: Elevator reaches its destination
 E3: Elevator does not reach its destination
 E4: Elevator stuck between floors
 E5: Door stuck open

Actions:

A1: Door opens
 A2: Door closes
 A3: motor starts moving
 A4: motor stops moving
 A5: send request to scheduler
 A6: Decommission elevator

Conditions:

C1: The request is for a higher floor
 C2: The request is on a lower floor