This State Machine UML was Designed by - Amr Ahmed Abd El Rahamn - Ahmed Mohamed Halim - Mahmoud Samy - Abd El Rahman Essam - Abd El Rahman Hendi **Elevator Idle** Up Request/Prepare Up -Download Request/Prepare Down **Door Closing Door Closing Approaching** Floor/ Check Door Closed/Request up Door Closed/Request down Floor **Elevator Up Elevator Down** Started Departing-Moving -Started Departing Approaching Floor / Stop **Stop Elevator Elevator Stopped At Requested Floor Open Elevator Door** No Request **Door Opening Up Request** Door Opened / Start timer Down Request **Check Timer** Alarm signal fired Timeout / Check Lift Capacity [Lift Capacity-Current Available Capacity<0] **Check capacity** Not full [Lift Capacity - Current Available Capacity > 0)] / Check Next Destination (Sorted Queue)

Checking Next Destination