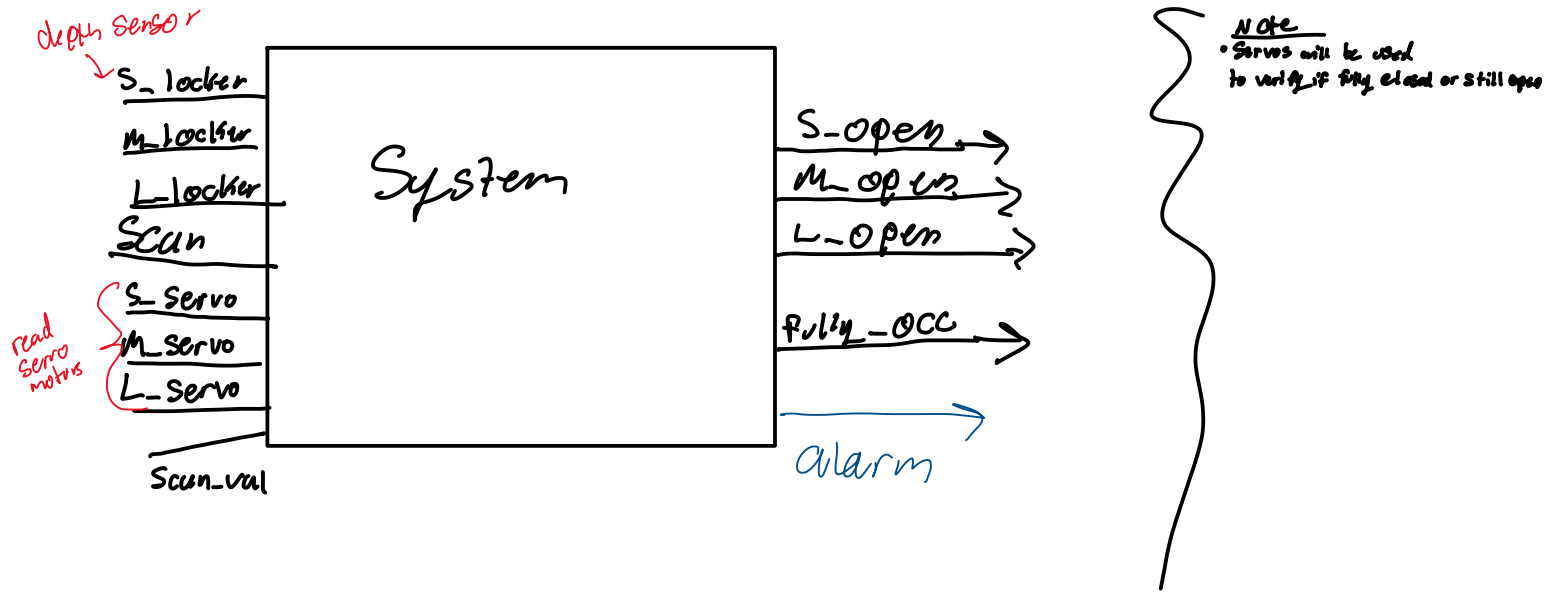


FSM

Tuesday, April 1, 2025 9:25 AM



FSM Diagram

S_locker, M_locker, L_locker \Rightarrow $\begin{cases} \text{False, occupied} \\ \text{True, available} \end{cases}$
will be values from sensors to check if a locker is occupied or available

Scan \Rightarrow $\begin{cases} \text{false, No box scanning} \\ \text{True, box is scanning} \end{cases}$

S_Servo } false, Not fully closed
M_Servo }
L_Servo } True, fully closed

Output

$\left. \begin{matrix} S_open \\ M_open \\ L_open \end{matrix} \right\} \Rightarrow \begin{matrix} \text{false, don't open} \\ \text{True, open} \end{matrix}$

$\text{fully_occ} \Rightarrow \begin{cases} \text{false, still space} \\ \text{True, full} \end{cases}$

