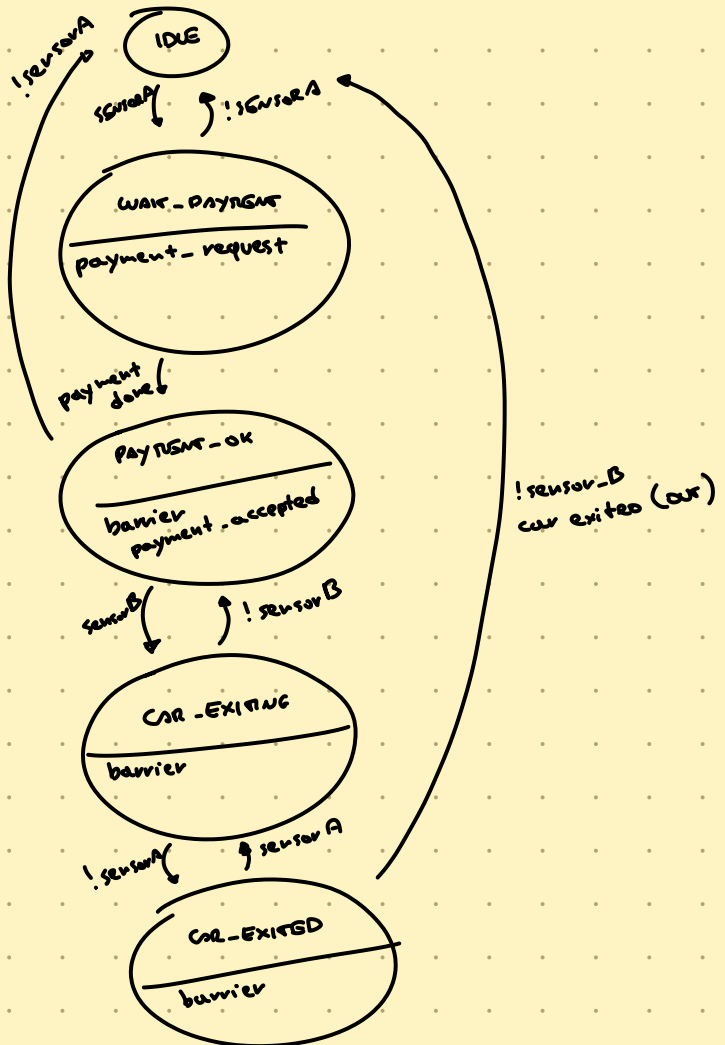
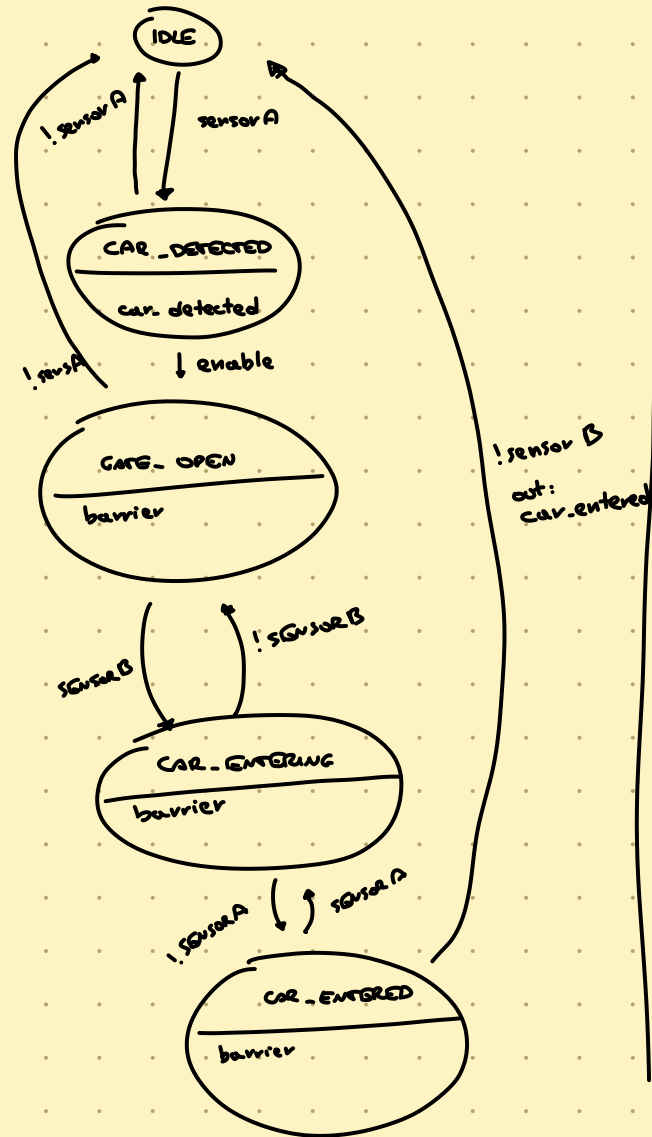


IN FSM: clk car_detected
 reset car_entering
 sensor A car_entered
 sensor B barrier
 enable

OUT FSM: clk
 reset
 sensorA
 sensorB
 payment_done

barrier
 payment_request
 payment_accepted
 car_exited



controller

internal :

PARKING_CAPACITY

car_count

car_detected - 1

car_entering - 1

car_entered - 1

car_detected - 2

car_entering - 2

car_entered - 2

enable - 1

enable - 2

payment_request

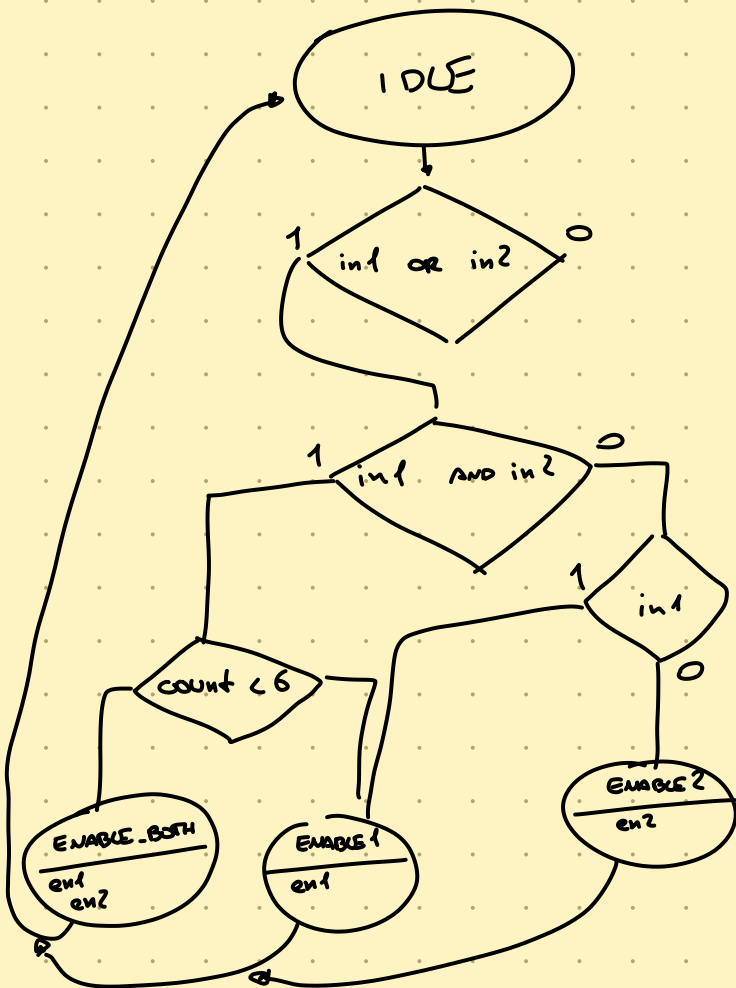
payment_done

payment_request

car_exited - 1

car_exited - 2

ENTERING



EXITING

req 1 \Rightarrow req

req 2

acc1 \Rightarrow acc

acc2

CONTROLLER

PARKING

counter

if car_ent : +1

if car_exit : -1

+ PARKING

+ LED : if counter < max: green
else red

+ Display : DISPLAY max-car count