**Mastering Embedded System Online Diploma**

**www.learn-in-depth.com**

**First Term (Final Project 1 )**

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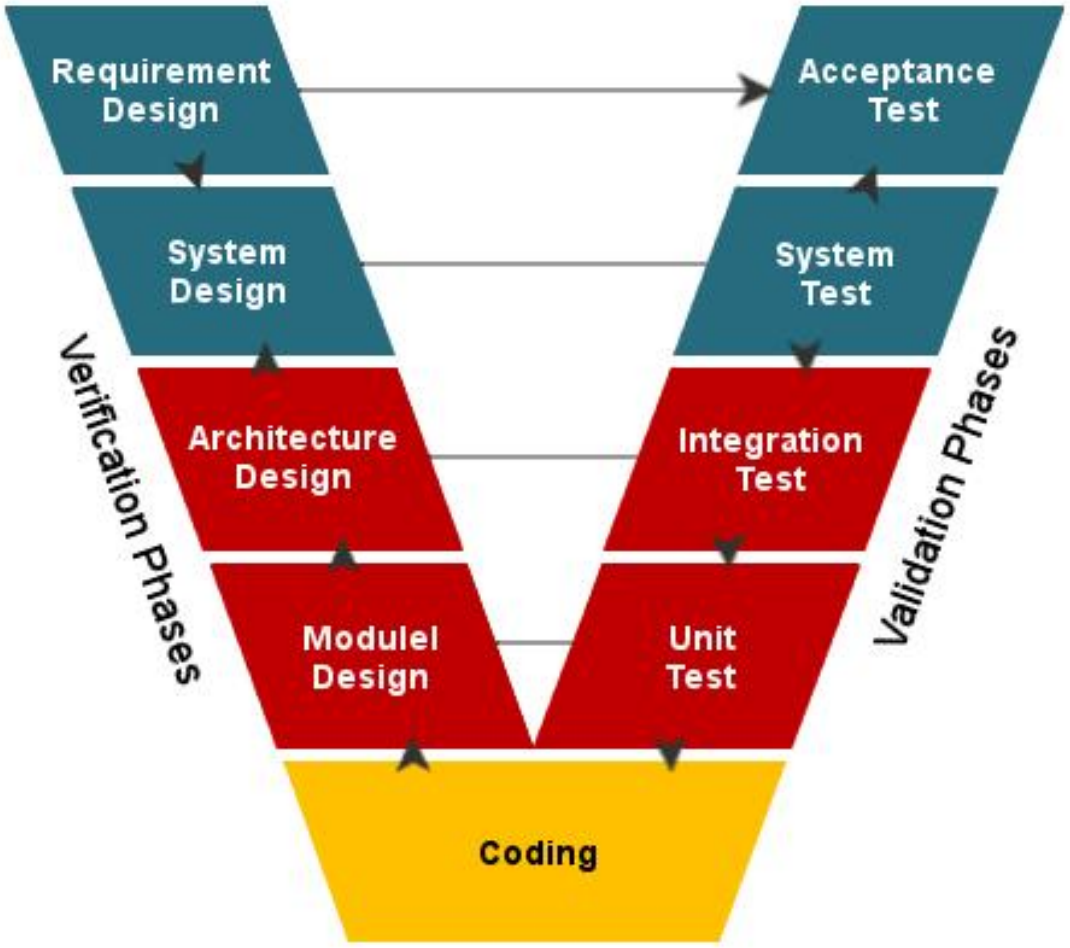
# REPORT

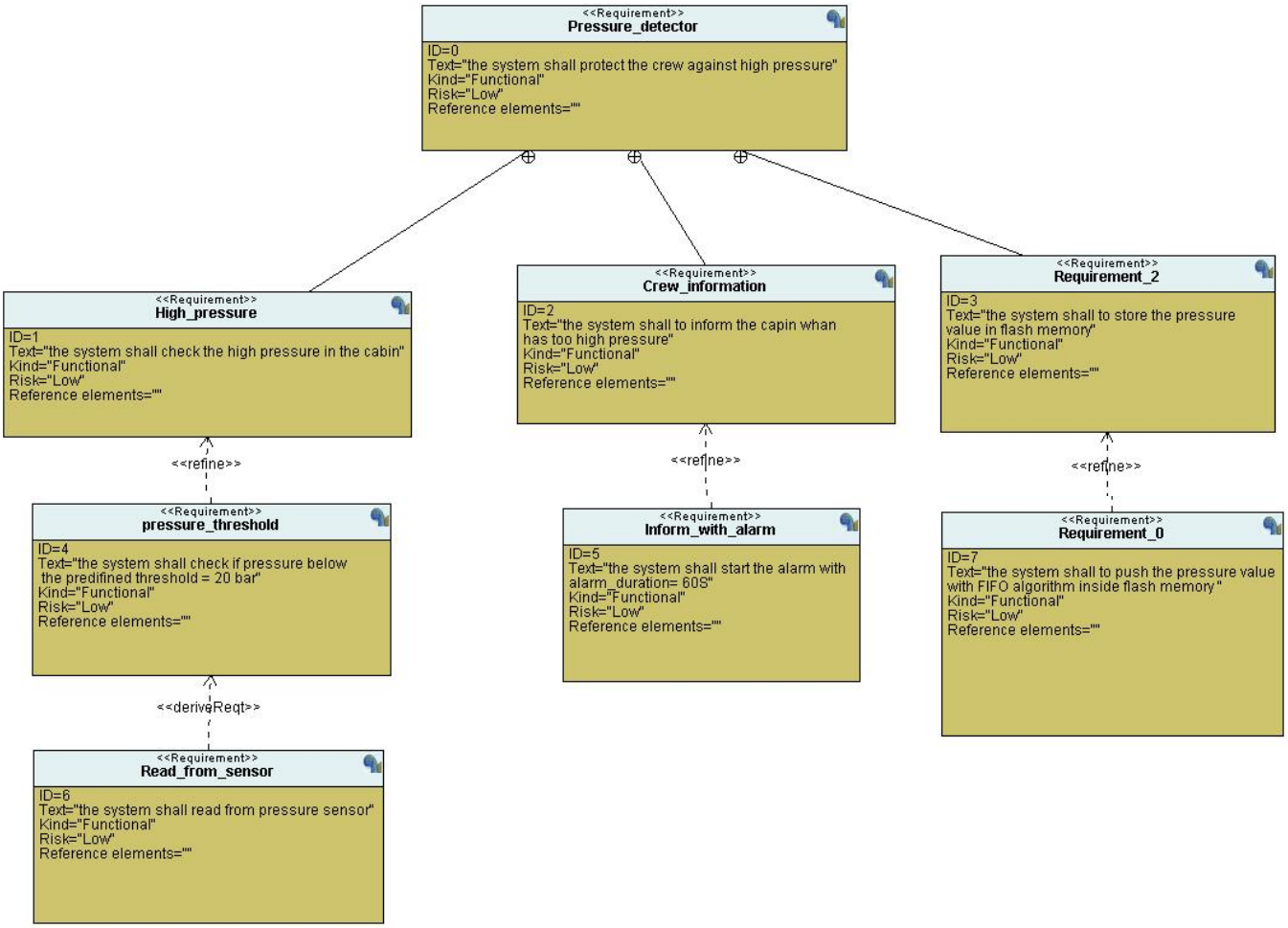
# DESCRIPTION:

When the pressure inside a cabin exceeds 20 bars, a pressure controller alerts the crew of the cabin with an alarm. The alarm goes on for 60 seconds.

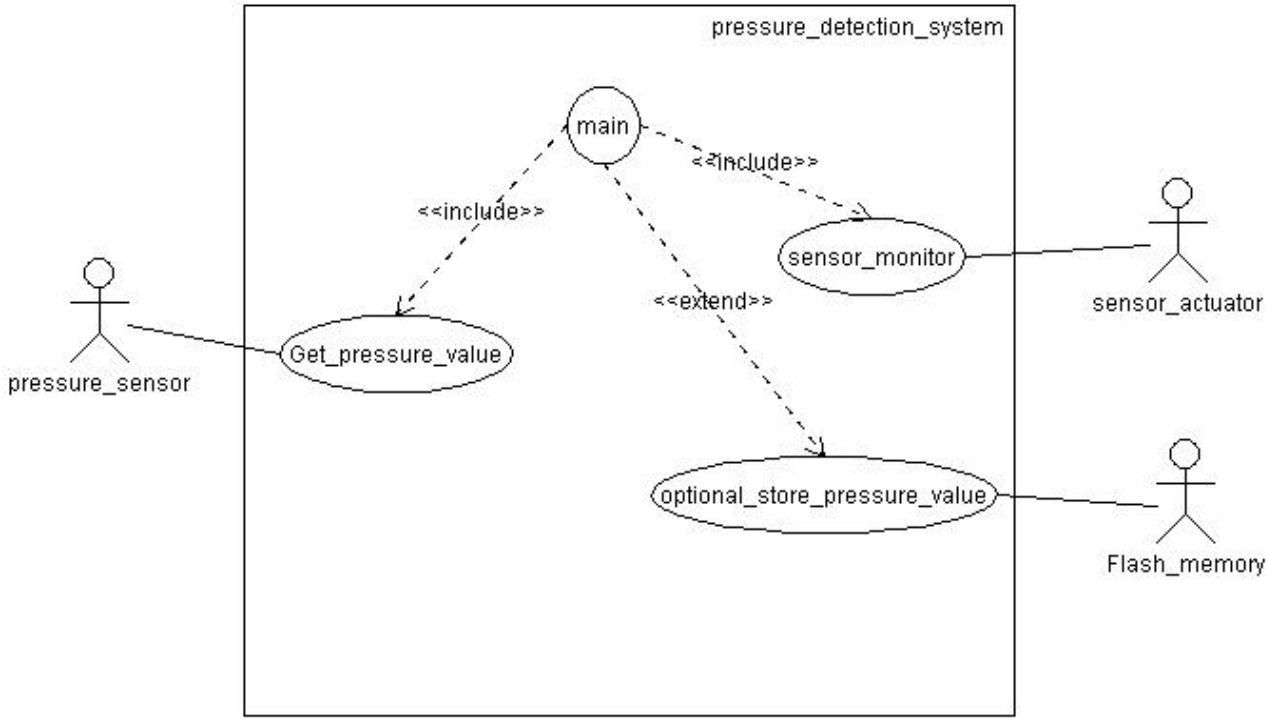
# METHOD:



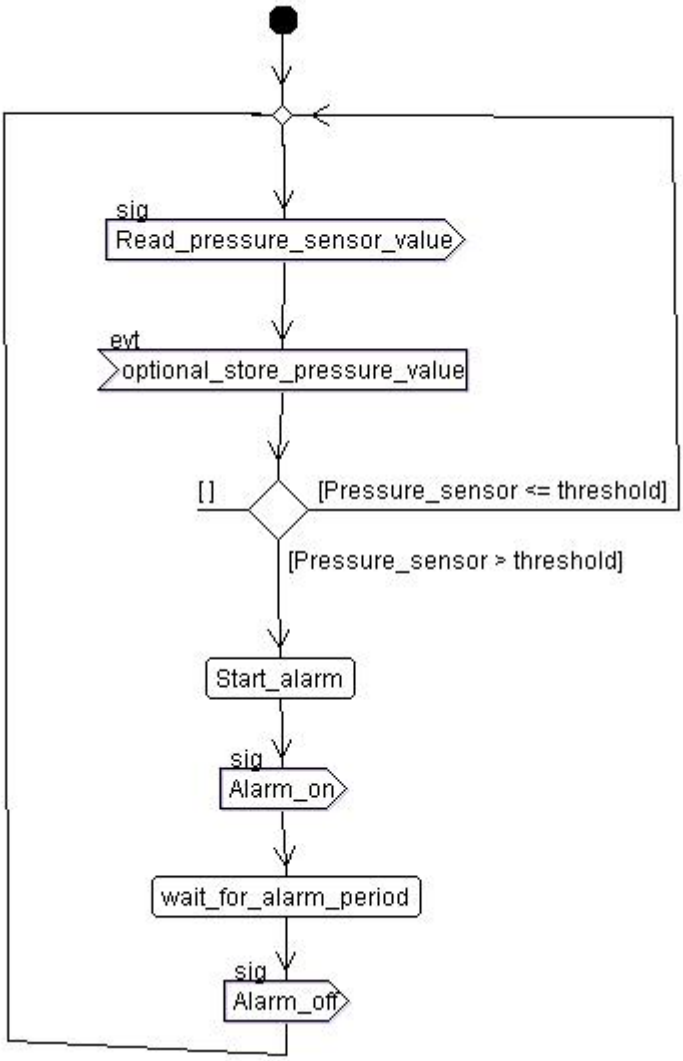
# REQUIREMENT DIAGRAM



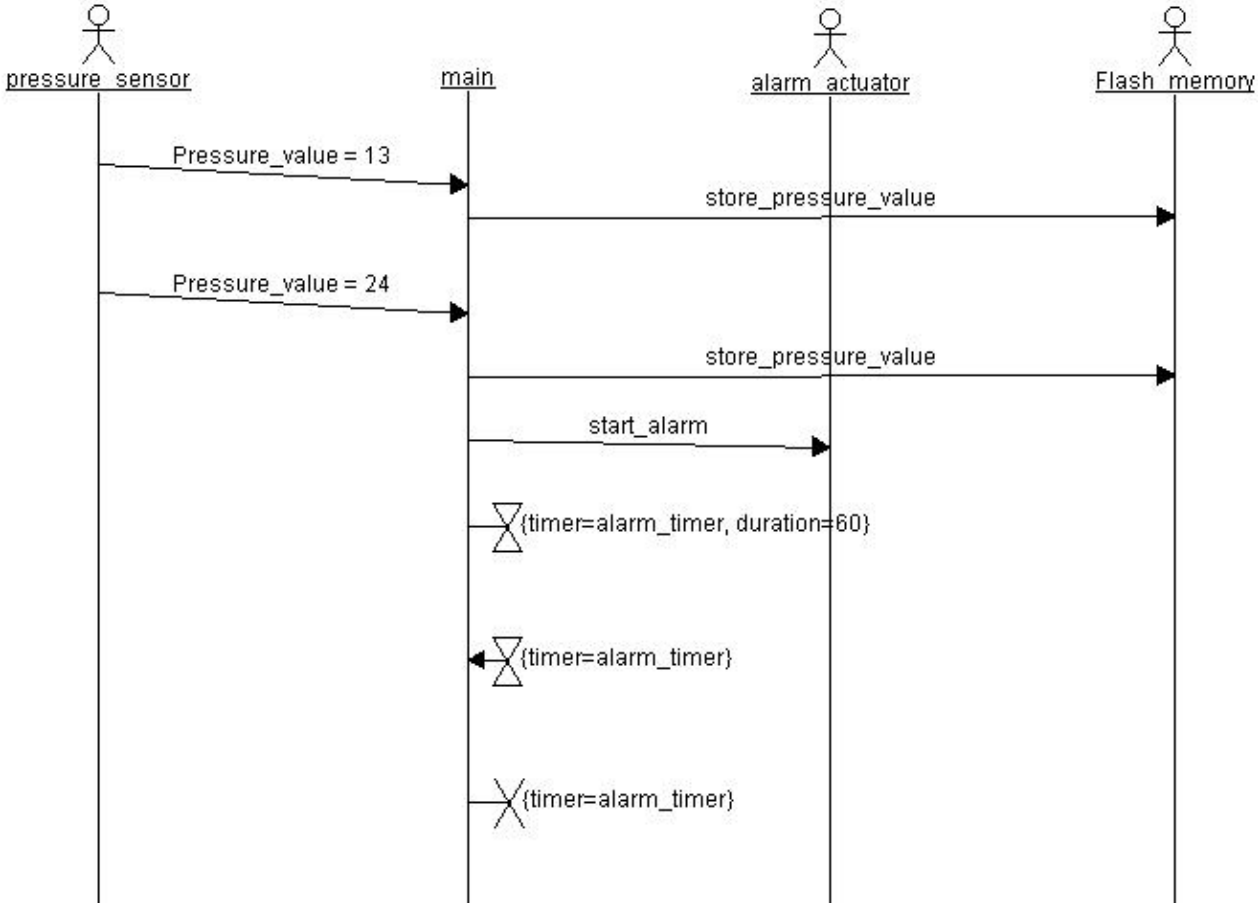
# SYSTEM ANALYSES : USE CASE DIAGRAM



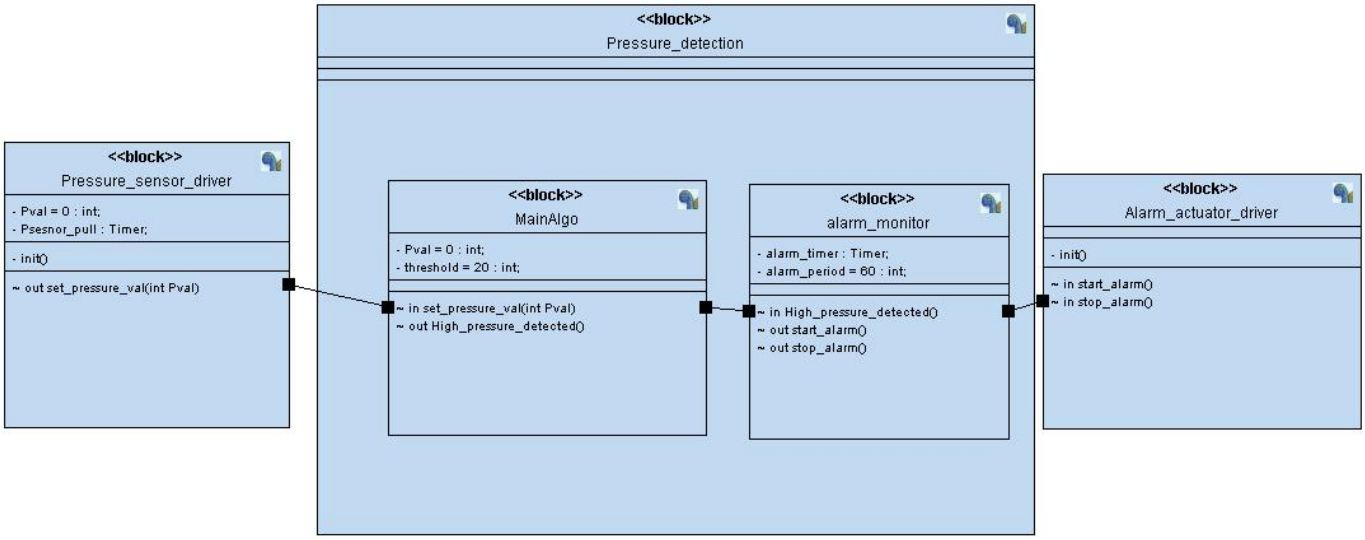
# SYSTEM ANALYSES : ACTIVITY DIAGRAM



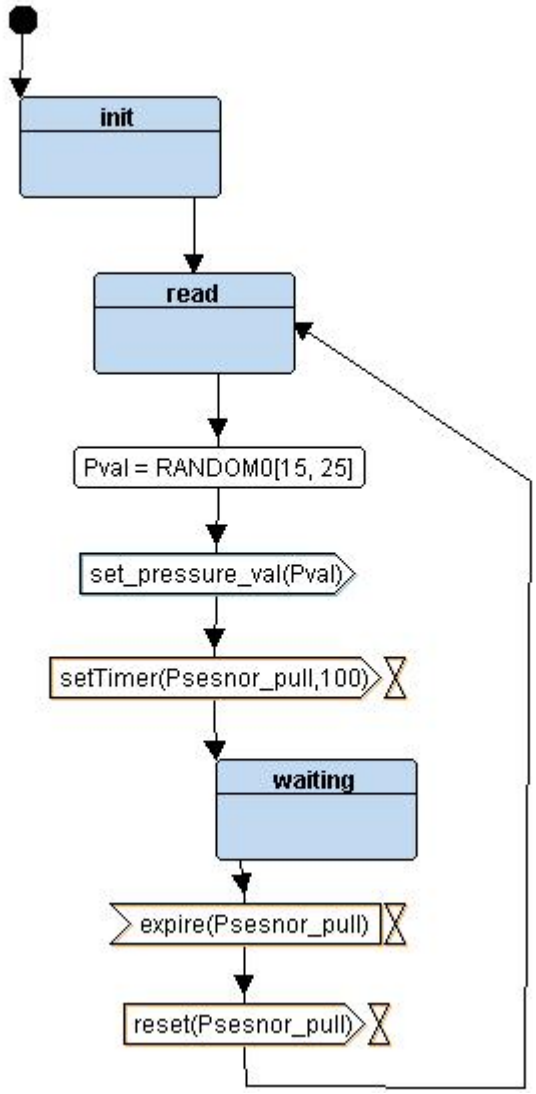
# SYSTEM ANALYSES : SEQUENCE DIAGRAM



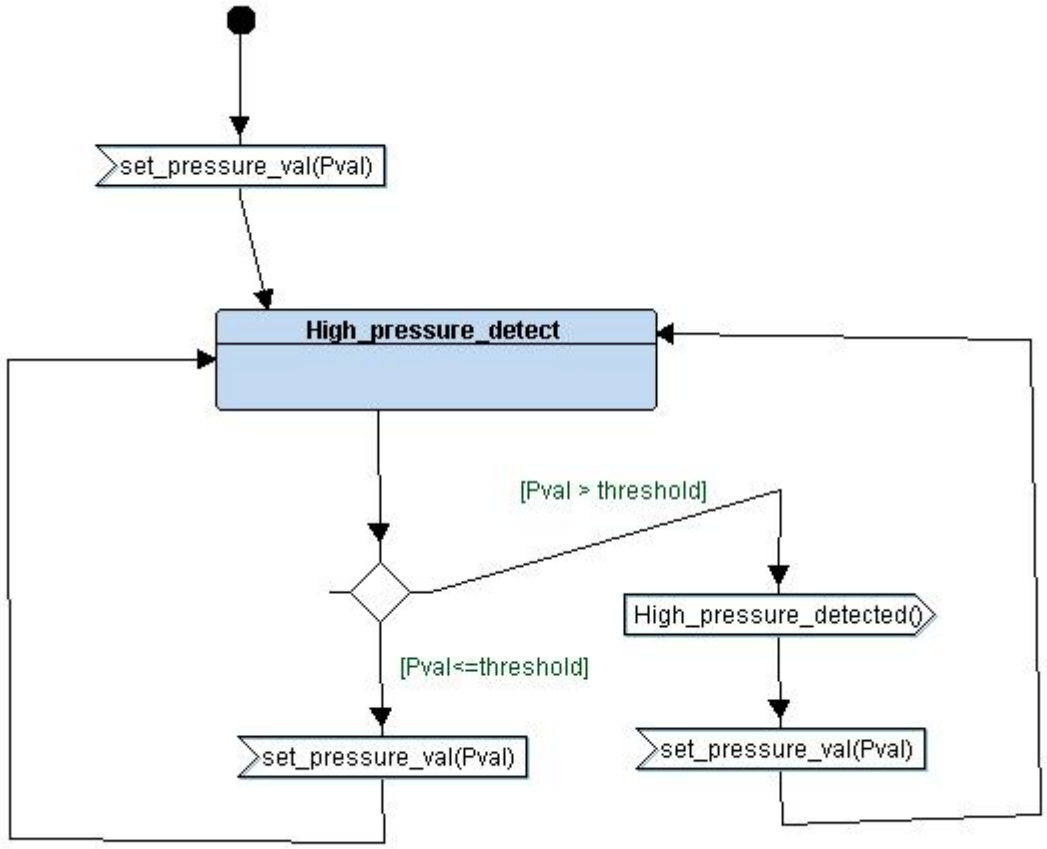
# SYSTEM DESIGN



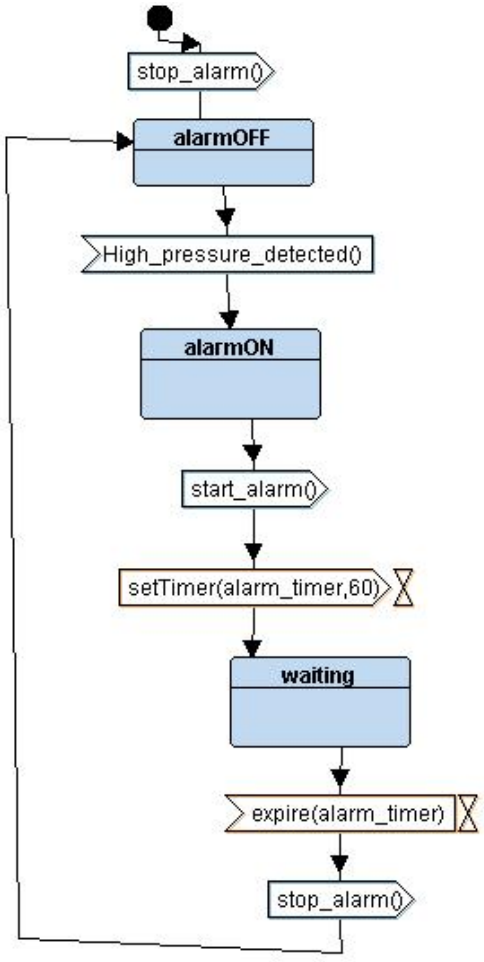

## Pressure sensor driver block:



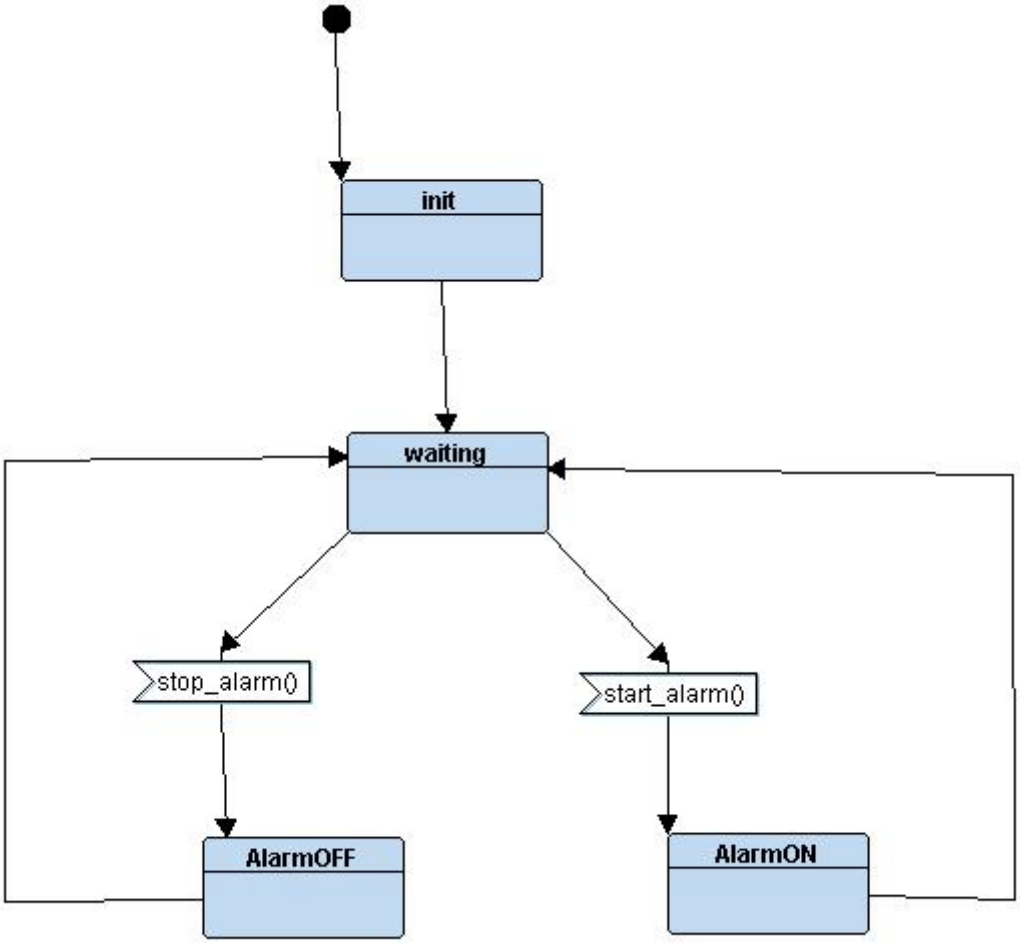
# MainALG block:




# Alarm monitor block:



# Alarm actuator block:



# PROTEUS

## - pressure = 16 ---> alarm off

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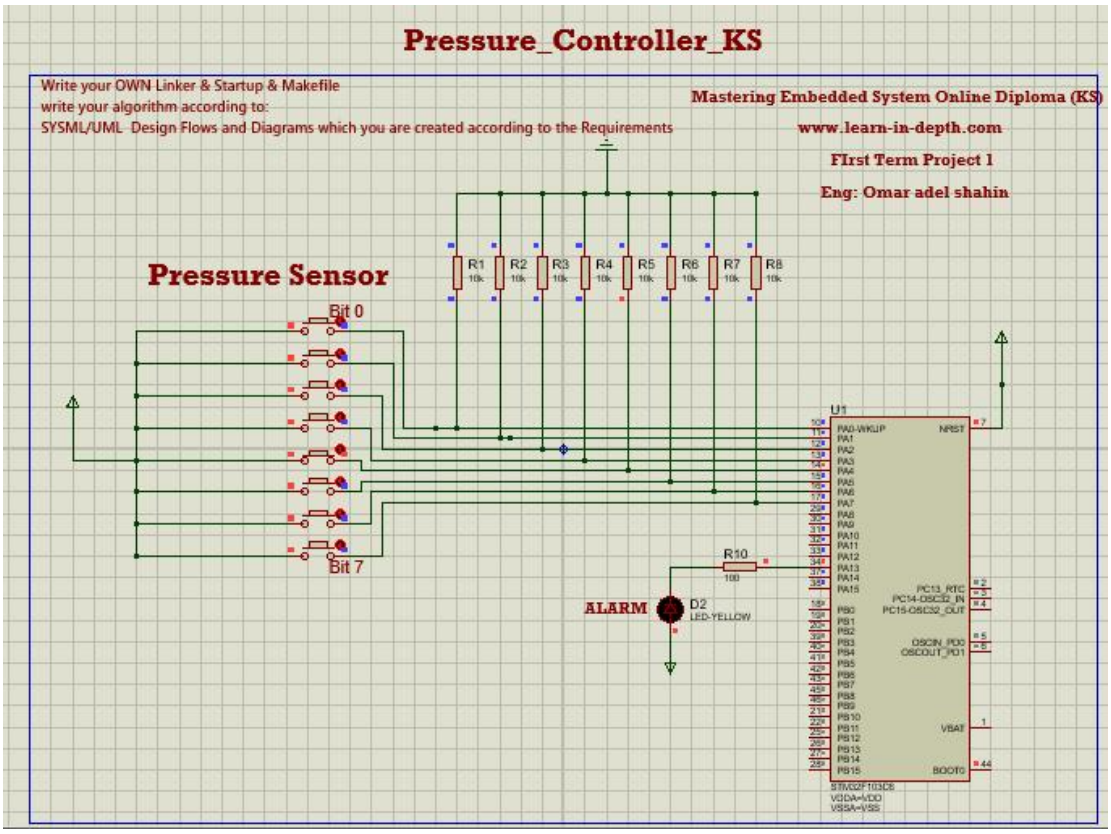

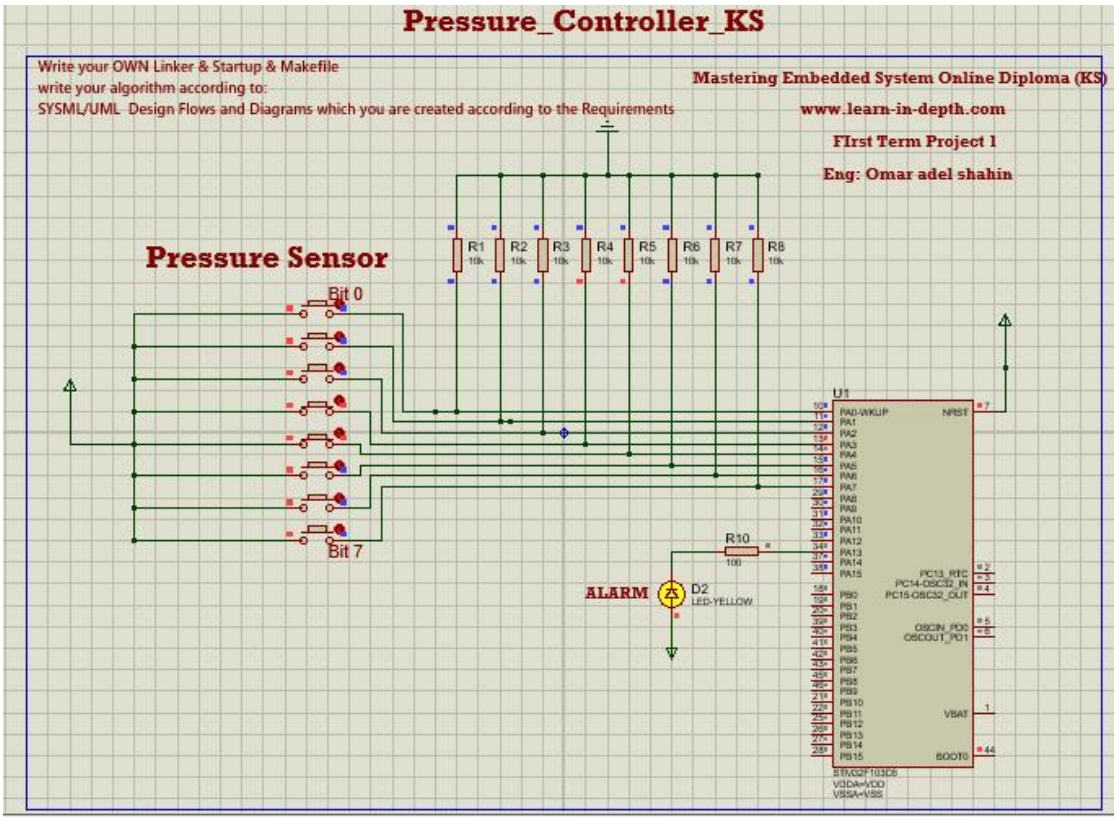
## pressure = 24 ---> alarm oN