Mastering Embedded Systems

Online Diploma

Project 1

Pressure Controlling system.

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Be Professional In Embedded System

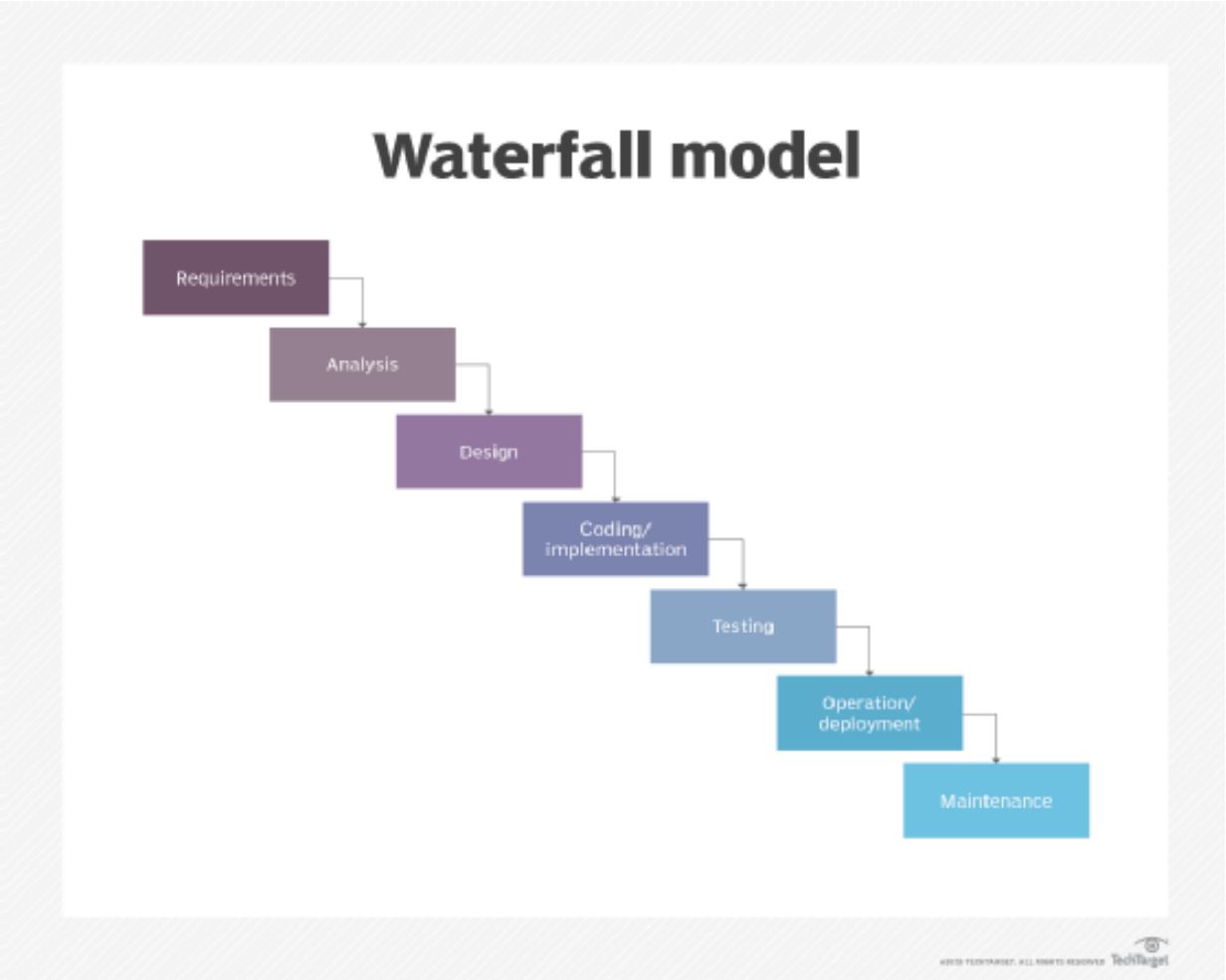
Eng. Keroles Shenouda

I. Project Overview

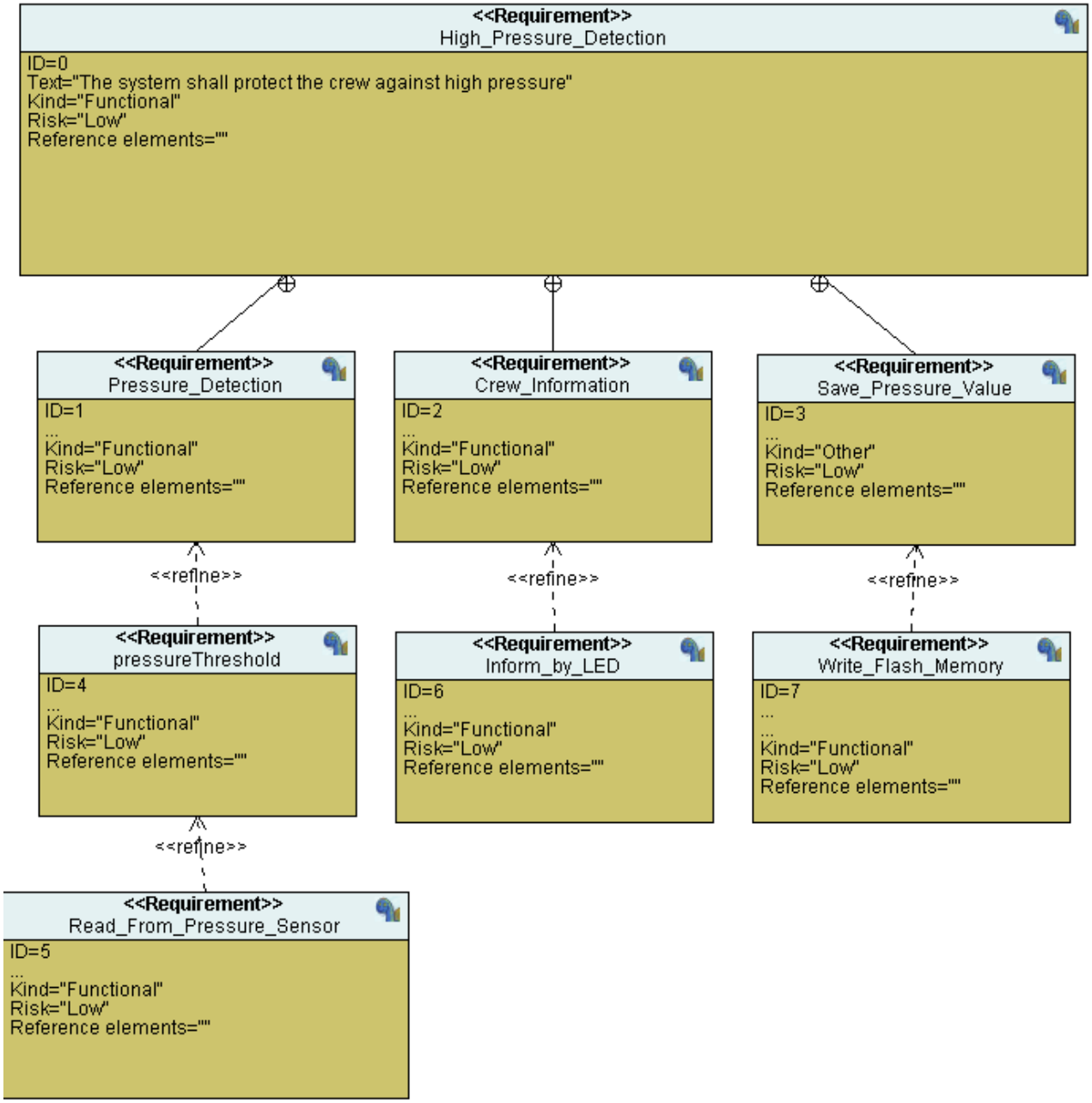
- We are required to deliver a pressure controller that informs the crew of a cabin with an alarm when the pressure exceeds 20 bars in the cabin.
- The alarm duration equals 60 seconds.

II. Method

- In this project I choose waterfall model due to its simplicity

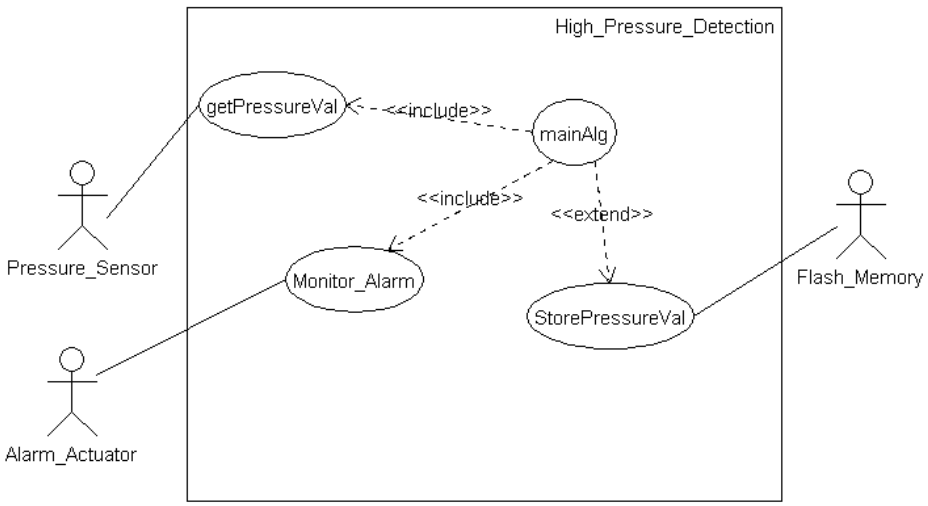


III. Requirement Diagram

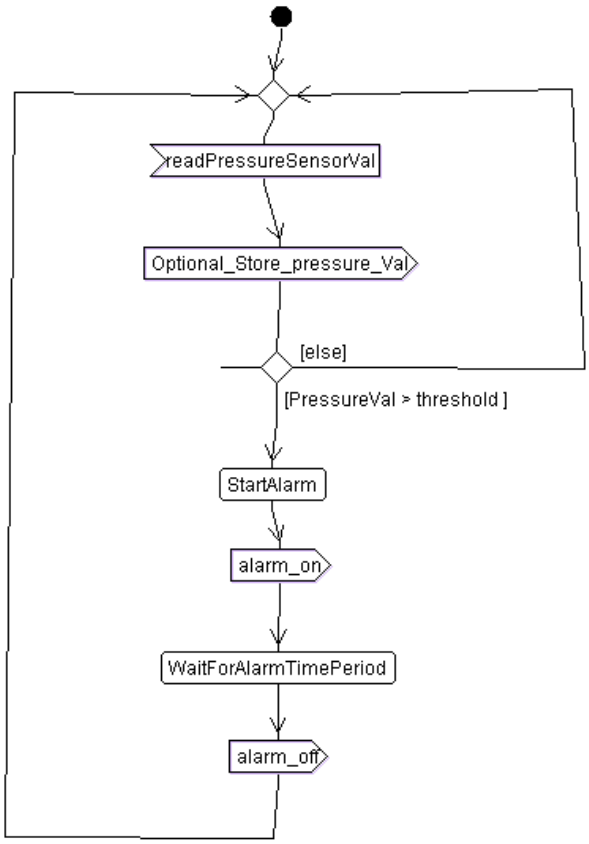


IV. System Analysis

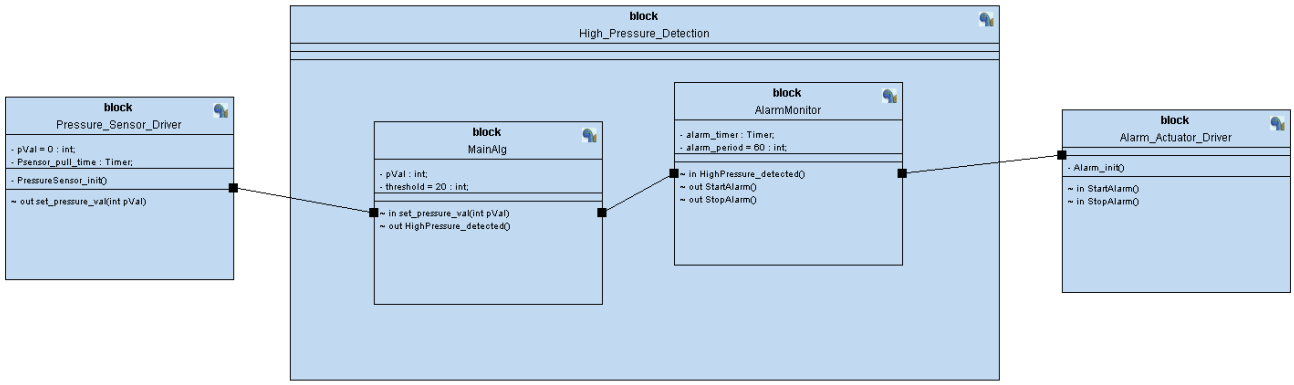
i) Use case diagram.



ii)Activity diagram.

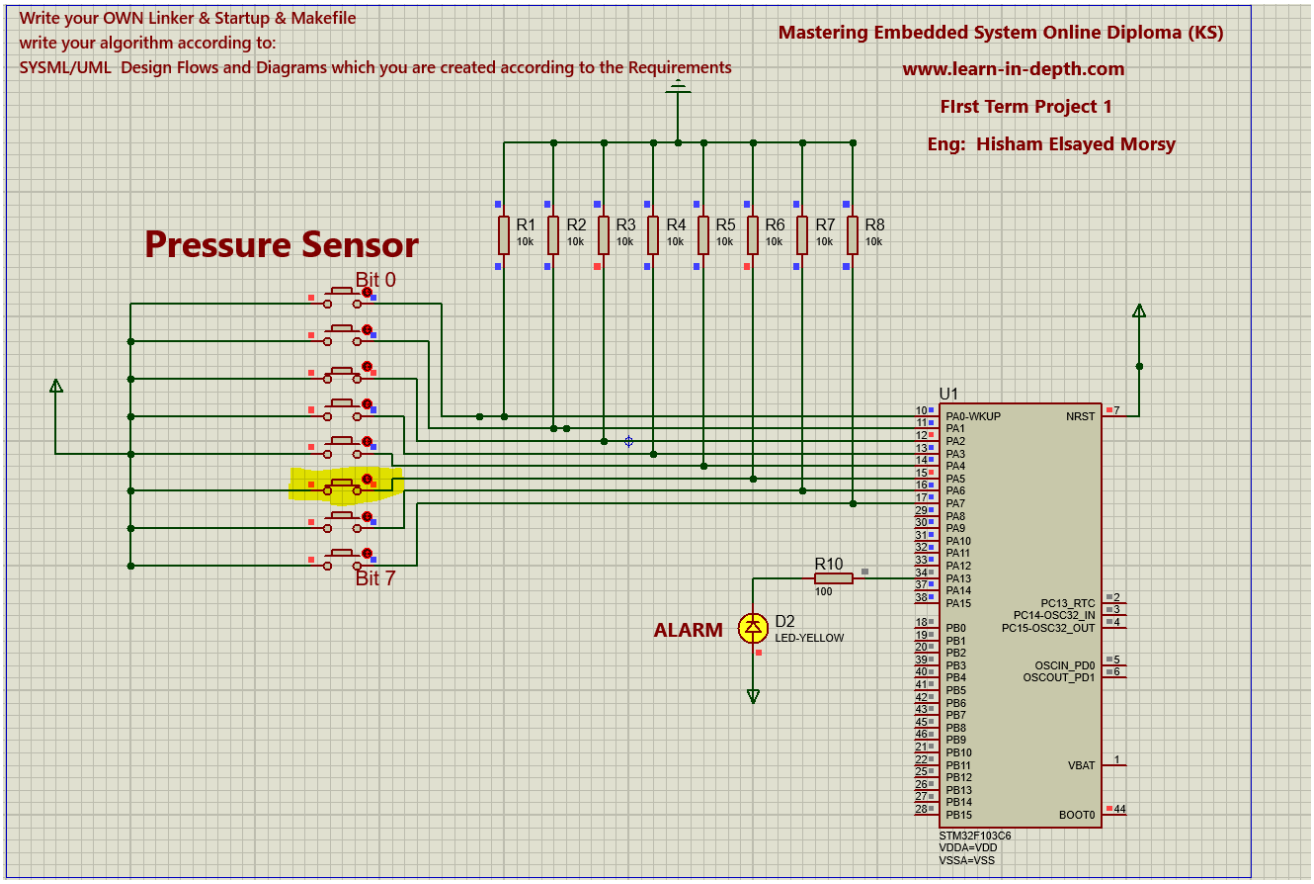


V. Design



Pressure Reading: 32 (Greater than threshold)

- Alarm ON



Pressure Reading: 6 (Less than threshold)

- Alarm OFF