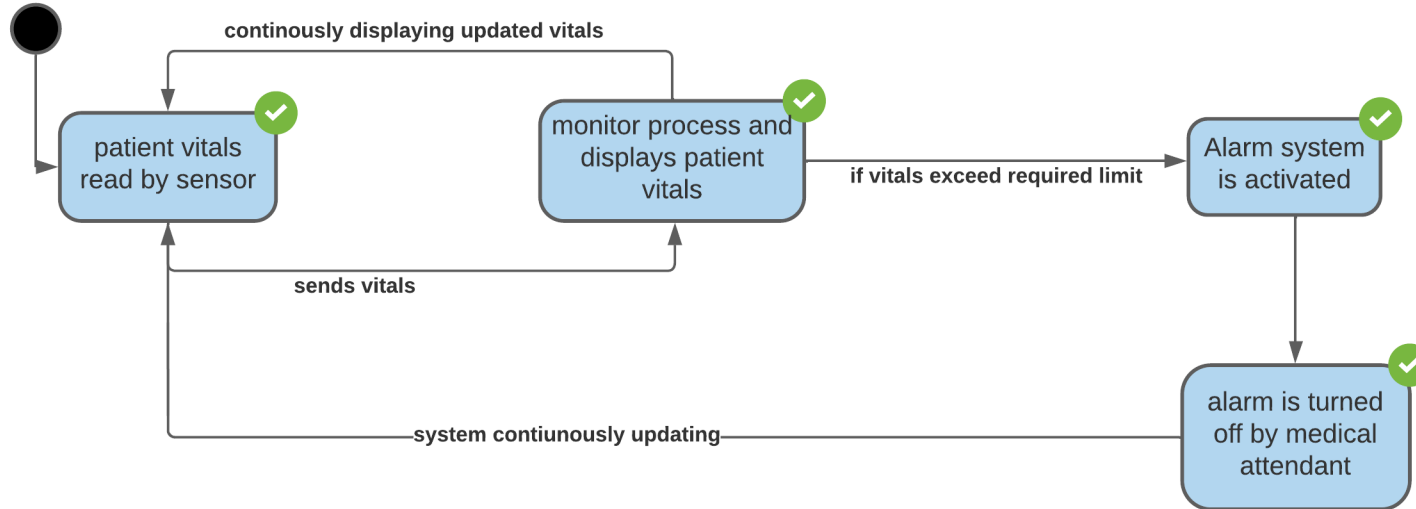

PATIENT MONITORING DEVICE

Ashraffuzaman siddiqi
Mohammad



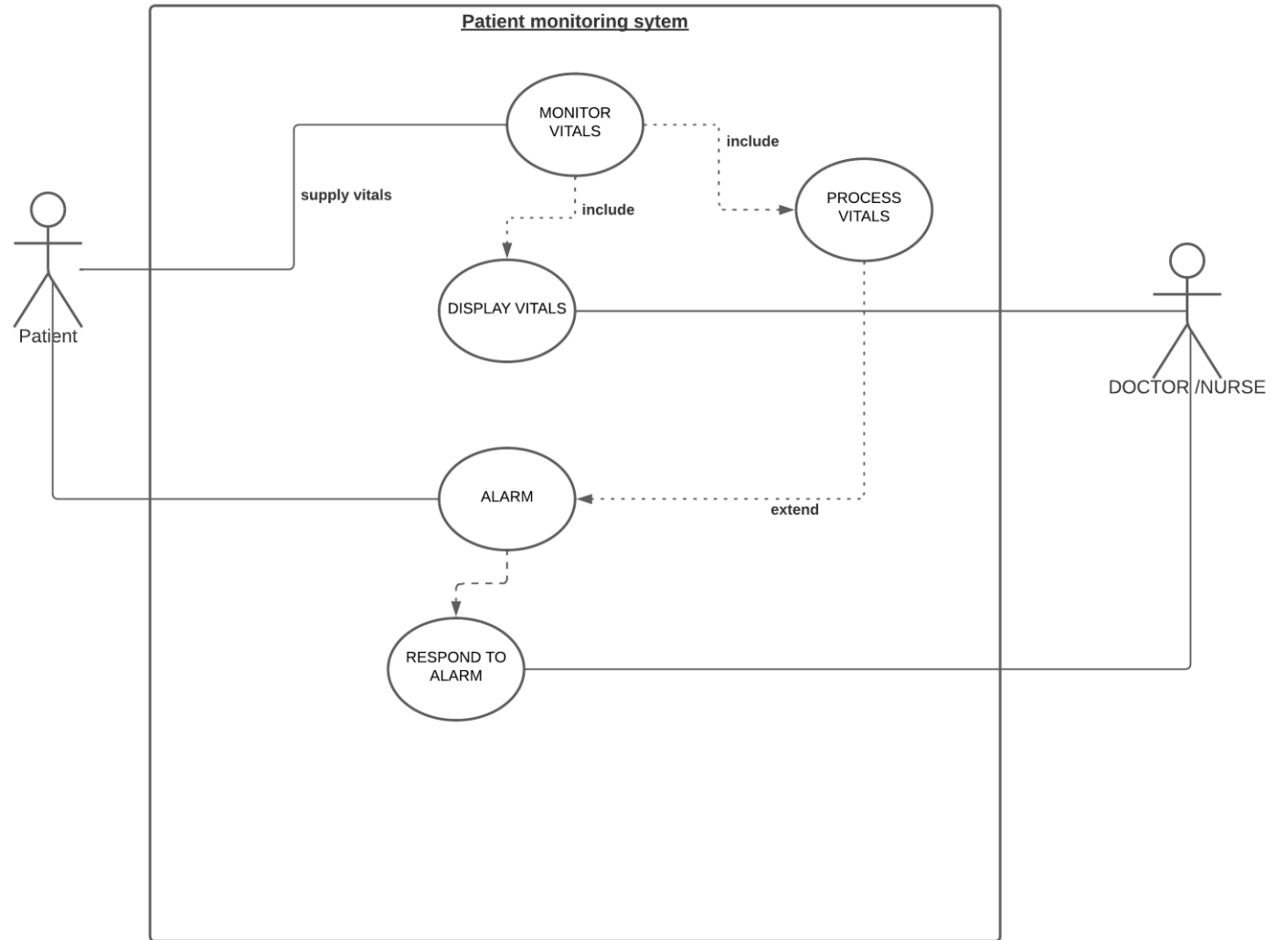
SYSTEM OVERVIEW



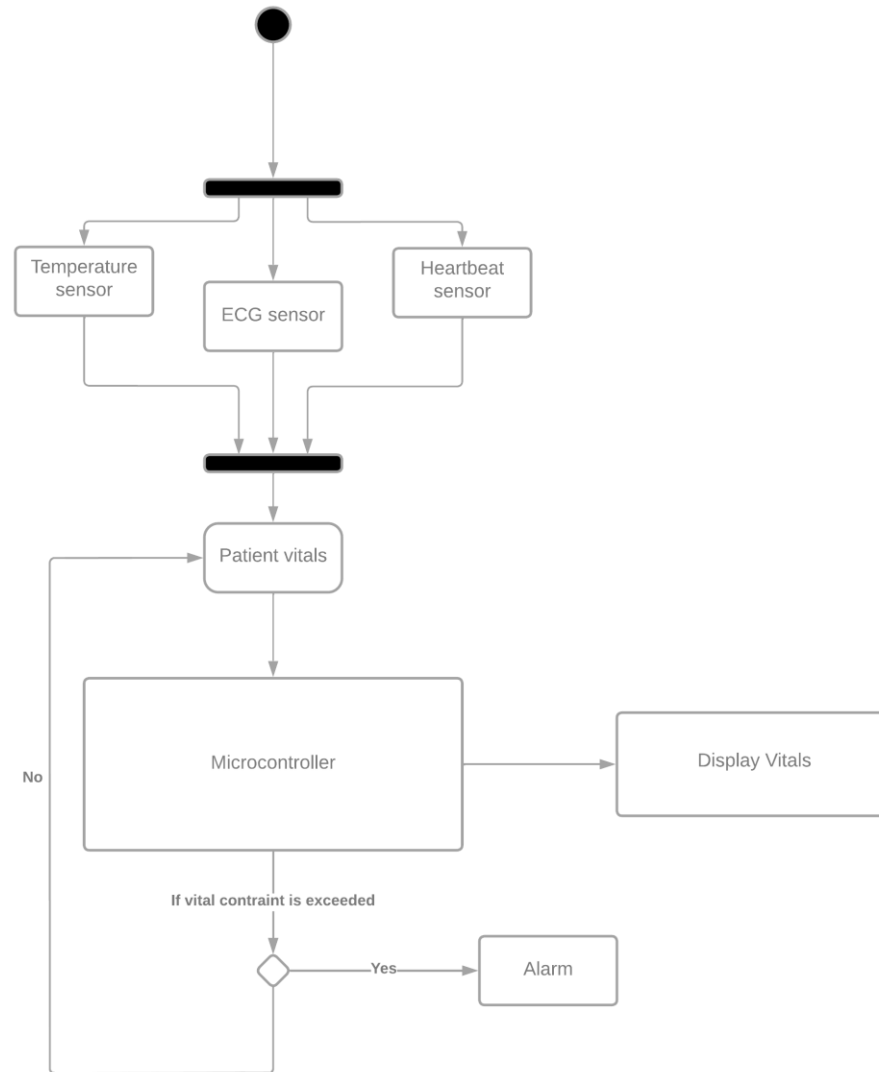
REQUIREMENT

- Functional
 - *The system shall operate in Real time*
 - *The system shall Display patient information and vitals*
 - *The system shall activate alarms in the right scenario*
 - *The system shall regularly collect vitals from the patient*
 - *The system shall process vitals collected and detect abnormal readings*
 -
- Non Functional
 - *Availability: system should be operational 24/7*
 - *Reliable: As a medical system it should be fully functioning*
 - *Design: screen should be 15 inches with touch screen capabilities and button functions*
 - *Performance: the system should update the vitals data every second*

USE CASE



ACTIVITY DIAGRAM

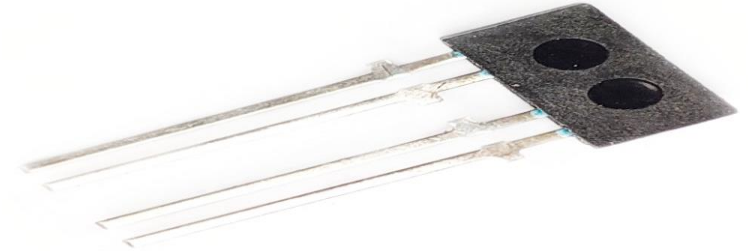


HARDWARE SPECIFICATION

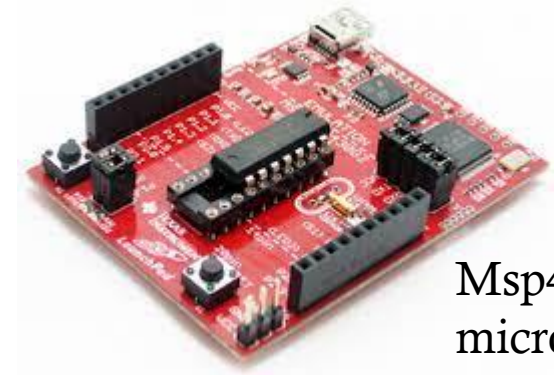


Ecg sensor

Heart rate
sensor



Blood pressure
sensor



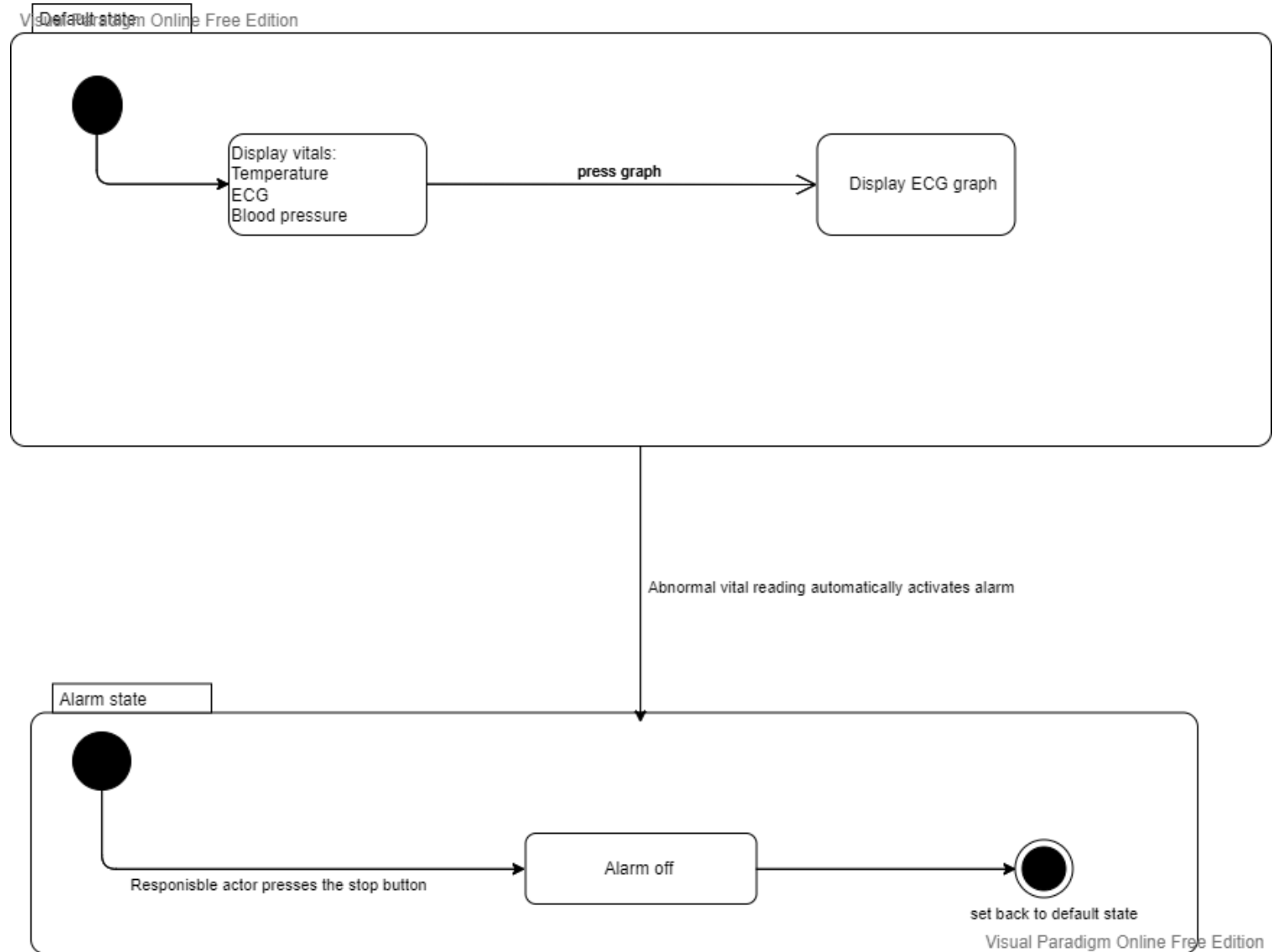
Msp430
microcontroller



USER INTERFACE

Bpm pulse	
Heart Rate	
ECG	
Temperature	
	<div>Graph</div> <div>Stop</div>

USER INTERACTION



- This presentation discusses the techniques that can be used to provide the necessary information about any patient's physiological conditions by taking body parameters into account. It gives an adequate and relatively simple solution to the problem that doctors face with having multiple patients and no easy way to access their data at any required time.

CONCLUSION