- Hardware requirements will be completed.

Deliverables	**Assigned to**	**Due Date (Week/Date)**
Possible Logic PCB to analyze the logic (Altium) ● Input: from all the function in the code ● Output: a signal connected port #(SMS function) to generate a SMS when high ● Design schematic, footprint, component library, PCB layout.	Khanh Le	2/13 (Week 4)
Transceiver testing to transfer information between Arduino boards ● Ability to send an input to another arduino through the use of a transceiver channel ● Code the software to set up a communication pathway between both transceivers	Marshall	2/27 (Week 6)
New 3D printed enclosure ● Update for new circuit+ power supply+wires from last semester	Khanh Le	3/20 (Week 9)
Alarm Logic for the whole system ● Digital design*(help with memory storage) ○ Logic diagram ○ Logic map	Khanh Le	2/20 (Week 5)
SMS module ● Research (due 2/20) ● Use SIM card to send SMS	Mutlaq	2/27 (Week 6)
On/Off Switch for power supply ● A switch ● Circuit protection (diode)	Phong	2/27 (Week 6
AC power supply compatible ● Circuit protection	Abdul	2/27 (Week 6)

Software requirements will be completed.

Deliverables	**Assigned to**	**Due Date (Week/Date)**
Read and auto calibrate/zeroize strain gauge function (Github) ● Input: Take digital signal from strain gauge. ● Calibrate: translate the signal to a unit of measurement (kg) ● Zeroize: Zero out the weight detected in the first 15 second ● Output: A signal to the logic board	Phong	2/27(Week 6)
Detect movement, IR break function (Github) ● Input: Take analog signal from sensors ● Output: A signal to the logic board ● Take into account light sources, distances,...	Abdul	2/27 (Week 6)
Wifi Connection Function(Github) ● Option 1: Use two Arduino Uno to make a host and client network. Let the host control the web server and host a webpage. Allows clients to access webpage and keep track of the alarm status ● Option 2: Same thing, but using transceivers to tie the two arduinos together and using SMS to notify the caretakers	Marshall	2/27 (Week 6)
Wifi Web Page UI (Github) ● User friendly/ working interface ● Shows alarm status ● Shows current data of sensors?	Marshall	3/13 (Week 8)
Sending SMS Function (Github) ● Input: Take data from sensors ● Output: Alarm caretakers if sensor data is in the parameters	Mutlaq	3/6 (Week 7)
Add time to Arduino and webpage (Github) ● Connect the Arduino to wifi and using the NTP to get the time and date ● Or RTC clock	Abdul	3/6 (Week 7)