
Team Name: Team GoGetter

Date of Submission: October 30, 2021

Meeting Date & Time: October 30, 2021, at 7:00 PM

Meeting Location: Zoom

Meeting Duration: 2 hours

Team Members	X = Present	Notes
Khanh Le	X	
Phuong Nguyen	X	
Abdullah Alhoulan	X	
Mutlaq Alotaibi	X	
Marshall Aurell	X	

Progress: The team dropped the idea for the NRF24 module. Instead, we will use the extra Arduino board to transfer data straight to the server. Each Arduino will have their own IP address and they will communicate with each other using their wifi capabilities. An idea for an extra keypad or fingerprint sensor is being discussed.

Abdullah: We met on Zoom for 2 hours, and discussed a lot of things. The most important was the distribution of tasks to the actual experience in our project. My job is to work on the IR (the sensor) in all respects and test it.

Mutlaq: We met via Zoom and discussed different tasks to be done next week. I will have to test our project if everyone is done with their task.

Phuong: I will be responsible for testing and calibrating the strain gauge.

Khanh: A 3D model for the whole assembly should be done by the end of the week. The 3D model of the enclosure is due in the next following week.

Marshall: Discussed tasks to be assigned to each team member. (Strain ga., IR sensor, Build, Test, WiFi, Integration)

Strain Ga. (Phuong)	IR (Abdul)	Build (Khanh)	Test (Mutlaq)	WiFi (Marshall)	Integration
Calibrate	Prox. Sensor	3D model	Give parameters of the project	Setup	Make the story work
Weight-Value (The breakdown weight it can handle)	Daylight/Night	Hooking everything up	Environmental Factors (different lighting, door frames, bed weights)	Protocol	Keypad/finger sensor
Test	LED/Fluorescent	Battery(Arduino, Sensors)		peer to peer	
Zeroize	code into arduino	Enclosure		dhcp	
Code into Arduino					
arduino uno with HTTPS	arduino uno with HTTP				

Components:

ID	Price	Manufacturer	Manufacturer Product Number	Link
Load Cell	\$11.19	Degraw Design	4 x Load cell 0-50KG 1 x HX711 24BIT Precision ADC Module on breakout board 10 x Breakaway header pins for HX711 connection	https://www.amazon.com/Degraw-Amplifier-Weight-Arduino-Bathroom/dp/B075Y5R7T7/ref=sr_1_8?dchild=1&keywords=load+cell+arduino+150k&qid=1631958394&sr=8-8
Arduino Board with Wifi #2	\$44.80	Arduino	Code: ABX00021 / Barcode: 7630049200234	https://store-usa.arduino.cc/products/arduino-uno-wifi-rev2

Motion Sensor	\$			JBC 106
Amplifiers				JBC 106

Plan (future work):

Assignment	Due Date
Test the logic	Codes for IR sensor need rework and codes for strain gauge (calibrate and logic) need to be tested
Test the wifi webpage	Connection is done, focus on the webpage
Create the first prototype	TBD
Test the prototype	TBD

Issues: Test the software of the project and fix the code problems. Need to order the parts

Include the schedule for the next meeting:

Meeting Date & Time: TBD

Meeting Location: JBC 106