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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