Research Log:

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| **Date** | **Source** | **Comment** |
| 30/09/20 | Meeting with a Nurse. | Gathering ideas on shortcomings in HSE that could improve covid treatment using technology and gaining understanding regarding current protocol.. |
| 01/10/20 | https://www.youtube.com/watch?v=xoxhDk-hwuo | Remembered seeing a video that used a motor mechanism to operate a spray bottle, this would be useful for hand sanitization. |
| 05/10/20 | Meeting with a Nurse. | Recommended temperature a sensor would be a useful addition. |
| 05/10/20 | https://circuitdigest.com/microcontroller-projects/ir-thermometer-using-arduino-and-ir-temperature-sensor | Example of a project that creates its own IR temperature sensor. |
| 05/10/20 | Meeting with a Nurse. | Recommended oxygen saturation would be another useful addition. |
| 05/10/20 | https://create.arduino.cc/projecthub/giulio-pons/really-homemade-oximeter-sensor-7cf6a1 | Project of a homemade oxygen saturation device. |
| 05/10/20 | https://www.houstonmethodist.org/blog/articles/2020/aug/can-an-oximeter-help-detect-covid-19-at-home/ | Article explaining how oxygen saturation levels could help diagnose covid. |
| 05/10/20 | https://www.fda.gov/medical-devices/coronavirus-covid-19-and-medical-devices/non-contact-temperature-assessment-devices-during-covid-19-pandemic | Article explaining how non-contact technology such as an IR temperature sensor is very useful for diagnosing covid. |
| 05/10/20 | http://arduinoinfo.mywikis.net/wiki/Esp32 | Looked up information about ESP32 board recommended by Brian. |
| 12/10/20 | https://www.w3schools.com/html/html\_forms.asp | Looked over HTML forms with Brian. Got some good ideas including methods to protect users sensitive data. |
| 26/10/20 | https://www.mongodb.com/nosql-explained | Looking up databases. |
| 26/10/20 | https://www.google.com/search?q=microservices+example&tbm=isch&ved=2ahUKEwjQu6j7x9LsAhUXYhUIHdTmCtQQ2-cCegQIABAA&oq=microservices+example+&gs\_lcp=CgNpbWcQARgBMgQIIxAnMgYIABAeEBMyCAgAEAgQHhATMggIABAIEB4QEzIICAAQCBAeEBMyCAgAEAgQHhATMggIABAIEB4QEzIICAAQCBAeEBNQmqECWJqhAmCKsAJoAHAAeACAAXWIAXWSAQMwLjGYAQCgAQGqAQtnd3Mtd2l6LWltZ8ABAQ&sclient=img&ei=sumWX9CaB5fE1fAP1M2roA0&bih=913&biw=1280&rlz=1C1GCEA\_enIE921IE921#imgrc=ky8VXmoJ9q0b1M | Looking up architecture diagrams of microservices. |
| 11/11/20 | https://aws.amazon.com/blogs/database/best-practices-for-securing-sensitive-data-in-aws-data-stores/ | Researching how to secure user data. |
| 11/11/20 | https://www.youtube.com/watch?v=-ObImxw1PmI | Watched a YouTube video on AWS cloud security. |
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