

# EE / CPRE / SE 491- sdddec20-10

## Warehouse Inventory Automation

### 4 Weeks Report

3/16/2020 - 4/12/2020

Client: none

Faculty Advisor: Dr. Diane Rover

#### Team Members:

Jacob Ramsey-Smith

Jack Creighton

Stamati Morellas

Amir Hamza

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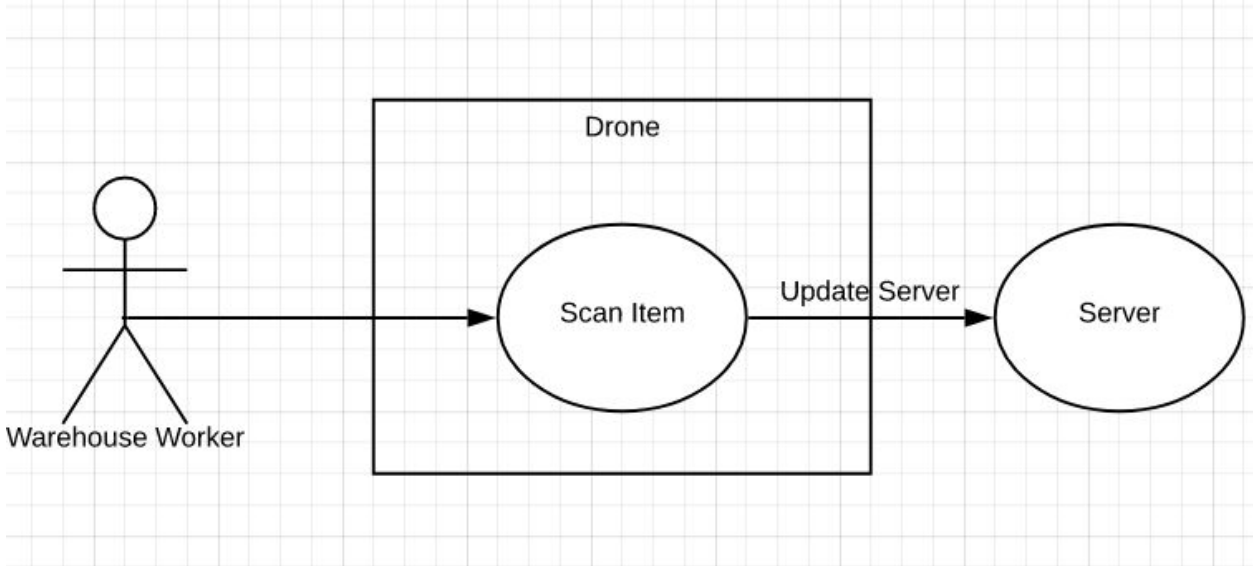
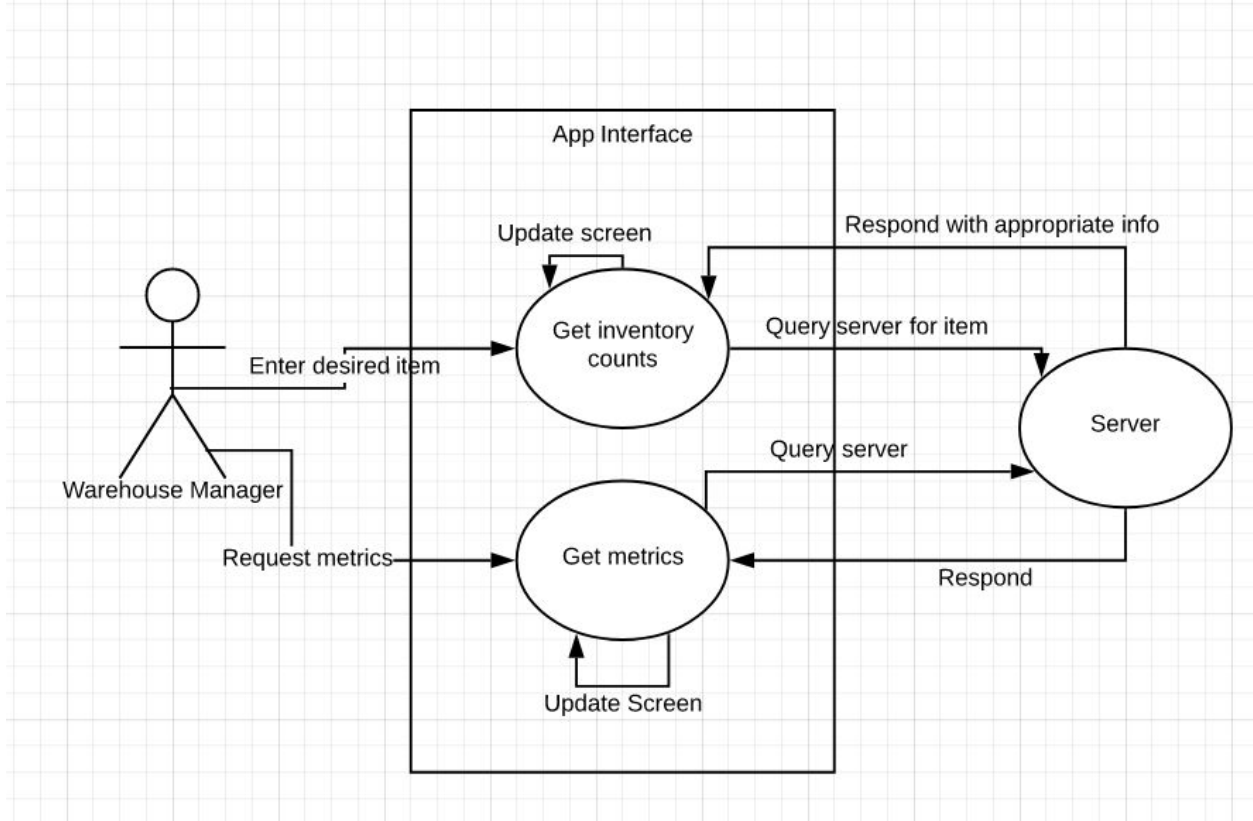
#### Past Week Achievements

- Completed sections 3 and 4 of our design document.
- Created a contingency plan to work around the COVID-19 pandemic.
- Finished a lightning talk detailing technical challenges we have overcome and challenges we expect to face in the future.
- Create some use case diagrams detailing the functionality of our project.
- Finished drone and controller schematics

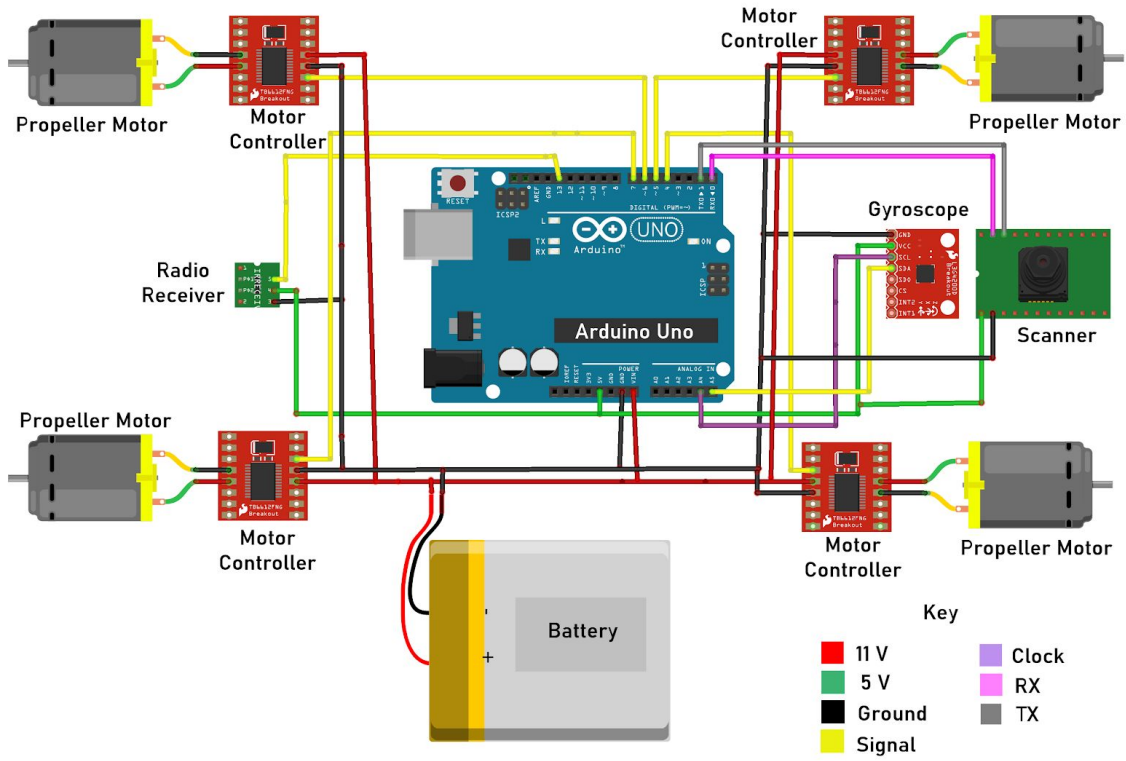
#### Individual Achievements

Team Member	Contribution	Weekly Hours
Jacob Ramsey-Smith	Contributed to the contingency plan, researched optic flow sensors and options for autonomy	5
Jack Creighton	Created diagrams, contributed to design document, contingency plan, and lightning talk	6
Stamati Morellas	Update website, lightning talk, design document.	5
Amir Hamza	Functional diagram and researched simulating software	5

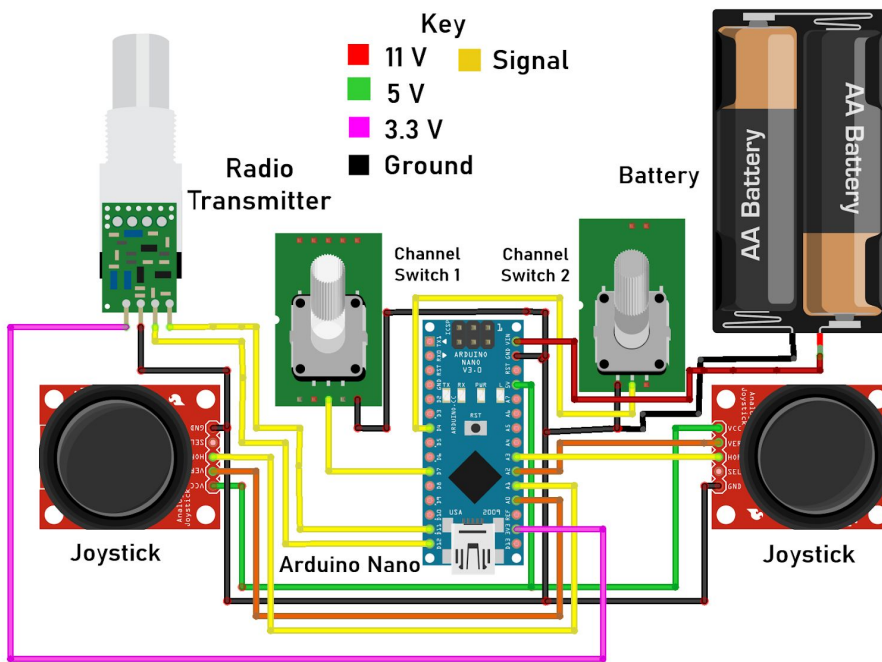
# Software Use Case Diagram



## Drone Schematic



## Drone Controller Schematic



### **Pending Issues**

- Getting parts for our drone and assembling it has become more complicated due to the Coronavirus

### **Plans for the coming weeks**

- Create a simulation for our drone
- Submit functional diagrams for each component of the project to our faculty advisor
- Develop a rigorous schedule for next semester in order to make up for the missed time this semester due to COVID-19