**Sprint 2 Plan**

**Green’s Only**

**Sprint Completion Date:** February 23, 2018

**Revision Number:** 1

**Date:** February 12, 2018 - February 23, 2018

**Goal:** Collect camera and software data for analysis.

**Task Listing**

As a developer, I would like to collect data from capture hardware for webcam and pi camera for sunlight glare

1. Face the cameras towards the sun
2. Measure out distances 10, 20, 30, 40, and 50 ft from cameras
3. Move the license plate to those distances, and take a picture of each from both cameras

* 3 hours

As a developer, I would like to collect data from capture hardware for webcam and pi camera for backlight

1. Face cameras away from sun
2. measure out distances 10,20,30,40,50
3. take pictures of licence plates at each distance

* 3 hours

As a developer, I would like to collect data from capture hardware for webcam and pi camera from different angles

1. Find a shaded location
2. Measure out angles of -30, -20, -10, 0, 10, 20, 30 degrees from cameras, and for each angle, measure out distances of 10, 20, 30, 40, and 50 ft
3. Move the license plate to each specific angle and distance, and take a picture of each from both cameras

* 5 hours

As as developer, I would like to outline a system to organize the data

1. outline a parsing system for the data
2. outline a script to use the parsed data for graph creation

* 2 hours

As a developer, I would like to test an IR camera

1. Test in a dark area, outside or inside
2. set the IR light straight onto license plate
3. Set License plate at 10, 12 ,15,18, 21, 24, 27, 30 feet and take images

* 5 hours

**Team Roles**

Kevin Ajili: Developer, Product Owner

Cesar Neri: Developer, Scrum Master

Arindam Sarma: Developer

David Munoz: Developer

Eric Su: Developer

An Tran: Developer

**Initial Task Assignment**

David Munoz:

As a developer, I want to test the camera for backlight conditions

1. Measure and set distances with increments of 10 feet
2. set up cameras and measure distance from focal point for documentation
3. Take images and store them in team repo

An Tran:

As a developer, I would like to collect data from capture hardware for webcam and pi camera from different angles

1. Measure angles from -30 to 30 ft from camera
2. Measure distances from 10-50 ft from camera for each angle
3. Take images and store them in team repo

Cesar Neri:

As a developer, I would like to test the camera for IR testing

1. Measure and set distances with increments of 2 to 3 feet
2. Set up camera and light and measure all distances for documentation
3. Take images and store them in team repo

Arindam Sarma: As a developer, I would like to collect data from capture hardware for webcam and pi camera from different angles (with different license plate)

1. measure angles from -30 from to 30 ft from camera
2. measure distances from 10-50 ft from camera for each angle
3. take images and store them in team repo

Eric Su:

As as developer, I would like to outline a system to organize the data

1. Research Python libraries for batch testing and text parsing
2. Outline a python script to run all tests at once, and store them to an output plaintext file
3. Outline batch testing and parsing scripts

**Scrum Times**

Tuesday: 7:00 pm (Room 302)

Wednesday: 6:00 pm (Online)

Thursday: 7:00 pm (Room 302)