**Release Plan**

**Greens Only**

**Revision Number:** 3

**High level goals:**

* Do research and test the most effective methods of detect contaminants on edible green vegetables in a packaging plant.
* Combine the best parts of different softwares to program software that can detect objects based on color and edge, in order to detect contaminants in produce.

**User stories for release:**

Sprint 1:

* As a developer, I would like to determine the effectiveness of color detection software in terms of differentiating between produce and contaminants. (5 points)
* As a developer, I would like to determine the effectiveness of edge detection software in terms of differentiating between produce and contaminants. (5 points)
* As a developer, I would like to determine the effectiveness of comparing images against each other in order to help find contaminants in the produce. (5 points)

Sprint 2:

* As a developer, I would like to combine the multiple detection softwares in order to collect useful data. (8 points)
* As a developer, I would like to determine a “base state” for the produce so that it’s possible to identify when there is no contaminants in a given image. (5 points)
* As a customer, I would like a system that when given video footage highlights a point in an image, or an image itself, where a possible contaminant has been identified. (8 points)
* As a developer, I would like to create a preprocessing script that will delete any unnecessary information. (8 points)
* As a customer, I would like to have a way to identify that there is a contaminant within an image. (13 points)

Sprint 3:

* As a developer, I would like a system that will provide the final results of the contaminant detection. (13 points)
* As a developer, I would like to thoroughly test the system with multiple parameters to determine the limitations of the software. (8 points)

Sprint 4:

* As a developer, I would like to combine the functionality of the two contaminant detection algorithms for more accurate results. (8 points)
* As a developer, I would like to thoroughly test the system with multiple parameters to determine the limitations of the software. (8 points)

**Product Backlog:**