Last Updated: 2020-11-01
Summary of Changes:
Reverted back to creation to help distinguish created content and value delivered to Prairie Robotics

URStreamSight: PROJECT REQUIREMENTS

Project Name	URStreamSight

Functional Requirements

1. Remove low quality images with a filter system.
2. Classify images as recyclable or non-recyclable.
3. Score recyclable vs non recyclability of bin contents in an image.
4. Provide meaningful data about recycling to households and stakeholders
5. Integrate with front-end for Prairie Robotics to display information to municipalities

Technical/Performance Requirements

Technical Requirements:

1. Create a new API to provide methods to access the data that is stored by Prairie Robotics
2. Machine learning model to train on the bin image dataset and classify items in images as recyclable or not.
3. Create a front-end UI to take the scores and provide visual representation of quality of recycling.
4. Use AWS for API hosting, front-end hosting, image storing as mandated by Prairie Robotics.

Performance Requirements:

Ideal goals:

1. Classifier recall (focus on reducing false negatives) of 90%
2. API response Time of under 500ms