Team Copy-Waste
Nolan Flegel, Rishabh Prasad, William Peers
Team / Instructor Scrum - 2
Sept. 24, 2021 - Oct. 8, 2021

Team Member Roles:
- Nolan Flegel - Machine Learning Lead
- Rishabh Prasad - Front-End Services Lead
- William Peers - Back-End Services Lead

Business Needs:
- Our business need is to reduce risk and cost to municipalities and waste management employees. As recycling rates increase, the events are a growing concern. An event that happened on Wednesday, at a recycling facility in Regina, emergency services responded to a fire, presumed to be caused by batteries in the recycling stream.
- **Emterra Fire Article:** Firefighters knock down recycle depot fire in Regina's west end
  - https://www.cbc.ca/news/canada/saskatchewan/emterra-recycle-depot-fire-1.6202918

Status: Green
- We are gathering requirements extensively, meeting often, and recording meeting minutes with our scheduled weekly sprints

Individual Contributions:
- **Team**
  - Meetings with Sam, Matt, Avery from Prairie Robotics, Meeting with Dr. El-Darieby and his PhD student George, Technology Stack Access at Prairie Robotics
- **Nolan**
  - Project Charter, Project Proposal, Project Business Case, Research into Yolo and variants, Collecting true negative image datasets, External Meetings with Adam Tilson and Dr. Yow regarding our project concept
- **Rishabh**
  - Stakeholder Analysis, Stakeholder Management Plan, Project Requirements, Green Screen (Community Orientation Research, Business Case Analysis, Technology Inventory), React Architecture Startup
- **Will**
  - Yolo research, Setting up repositories for image scrubbing, Collecting datasets (true negatives), Activity-Based Schedule, Milestone-Based Schedule

Project Issues / Changes:
- No issues or changes at this time

Documentation and Overview:
- Project Charter, Project Proposal, Project Business Case, Stakeholder Analysis, Stakeholder Management Plan, Project Requirements Documents Completed
- False positive recycling bin images are being collected and sorted
- Trello board is being actively used
- Meeting minutes are being noted at the end of every weekly sprint
- Mitacs Proposal is being finalized

Next Up:
- **Team**
    - Meetings planned with our Advisors and with Prairie Robotics
    - Submitting Mitacs Proposal
    - Completing remaining project startup documentation
- **Nolan**
    - Finish collecting true negative images
    - Annotate/classify true negative images
    - Documentation
        - Risk Assessment/Analysis
- **Rishabh**
    - Learn more about how React can facilitate our dashboard
    - Run UR Streamsight to see how it can be iterated upon
    - Prototyping and diagramming user interfaces
    - Designing Front-end MVP Goals
- **Will**
    - Finish collecting true negative images
    - Annotate/classify true negative images
    - Documentation
        - Empathy Mapping

Team Reflection:
- **Does the team feel "on track"?**
    - We believe we are still on track, time management has been a challenge. The next two week have quite a few tasks outside of the capstone.
- **What progress does the team particularly feel good (great) about?**
    - Conversations with Stakeholders have helped us develop a stronger understanding of the business needs and impact.
    - Conversations within our project group have led to a clear set of objectives and focus on specific technology platforms.
    - Our research has clarified a number of questions/concerns.
    - Conversation about Dashboards
        - How it will be used/value to municipality
        - How is it different/innovation on other products

- Stronger understanding of the business need
  - Fire at Emterra
- Research -> Yolov5, yolact++
- **What barriers (if any) does the team feel are a current impediment to success?**
  - The Mitacs Proposal is still being reviewed and completed by Prairie Robotics. We are still awaiting feedback before it can be submitted.
- **What help (if any) does the team require to move positively forward?**
  - Review Project Initialization documents with stakeholders to ensure our visions are aligned
- **What questions or concerns does the team have (if any)?**
  - Do you think that there is something we should focus on in the next 2 weeks?