Project progress vlog #2 requirements

Preliminary

This vlog is due November 16, 2020, at 11:30 am in your team's GitHub and URCourses team project wiki (under "Vlogs" - post a link to your video)

Team member (re)introductions

Avery Cameron: Project Management/Flexible Developer

- Manage our GitHub structure and CI/CD
- Record meeting minutes
- Organize project meetings and milestones
- Organize meetings between URStreamSight and mentors
- Manage project documentation
- Help with Front-End and ML as needed

Raymond Knorr: Lead UI/API Developer

- Lead API and Front-End Developer
- Manage integration and documentation of our software with Prairie Robotics
- Manage Trello board for workflow organization
- Manage communications between URStreamSight & PrairieRobotics

Noah Rowbotham: Lead Machine Learning Technician

- Lead development of classification model and documentation
- Understand how to integrate with and operate within Amazon SageMaker and other products

Although we have defined roles, we intend to provide insight and support to each other regarding all other aspects of development during this project.

Brief project blurb

What is URStreamSight?

We intend to produce a software solution that will monitor the quality of municipal recycling and give meaningful feedback to the municipalities. Our project will identify contaminants when curbside recycling is collected to provide analysts with neighborhood specific data on contamination in recycling. With this information, municipalities can deliver targeted education to reduce contamination in recycling streams and increase the quality of recycling.

"Show ~~me~~ us what you got"

We have been working on documentation and expanding on our design and making sure we are addressing comments to provide better rationale. We have also been working hard on the project planning phase and are close to moving onto the executing phase.

Talk about expanded rationale doc

We developed a series of empathy maps to better understand the needs and wants of the various groups involved with our product.

We also worked on Hifi prototypes using Balsamiq to create the vision for the front-end of the project.

We have created initial User Story Maps which have helped provide a better vision and understanding of needs and future tasks. We are using Stories on Board and have created personas, added releases and annotated the cards to help keep the USM clear.

We have created a layout for our CICD pipeline which we will show. We wanted a flexible model that ensures we are following proper development practices and provide Prairie Robotics with a product that is maintainable.

Project demo (from lofi, to hifi, to coded MVP(s))

If you have done some project execution, demo what ya got! (keeping in mind your team might still be planning things out at this stage and might not have anything to demo)

Expanded Project Rationale Doc

- Societal Impact, general FAQ, and Scope Exclusions

Empathy Maps

- Municipality Analyst
    - Having access to a tool that provides relevant, specific data to their municipality will help create much more specific education
- Municipality Leadership
    - Regardless of the current education and communication being used presently, contamination remains high. Knowing where it is coming from and what is the most common mistakes could make education more targeted and therefore effective
    - Many trucks are compromised, meaning there's so much contamination that they have to be emptied at the landfill directly. Municipalities really want to lower the amount of trucks being compromised.
- Household Recyclers
    - Privacy, we need to ensure we keep the data of individuals secure, mostly by ensuring data regarding someone's recycling cannot be traced back to the household directly
- Prairie Robotics
    - Peretto problem?

HIFI

USM

- 3 main epics

- Municipality Analyst and Leader Users
- Documentation, Setup and UI annotations
- Provide work for future releases

CICD

- We are starting with a linting/style guide check to ensure our code meets readability standards and is consistent
- We are running tests on the code
- and then building and deploying the package

Next up

Discuss your team's plan for the next several weeks with respect to software design and development activities.

1) Review HIFI prototype feedback

2) Begin creating tasks and developing our Front-End

3) Work on API Design Documentation

Team reflection

Does the team feel "on track"?

We feel we are on track, we are moving into the executing phase now after lots of planning and we feel like we have a strong base to build on.

What progress does the team particularly feel good (great) about?

The extra focus on the progress rationale and user-centric requirements makes us feel more confident about the app we are building and why.

What barriers (if any) does the team feel is a current impediment to success?

There is a lot of work to do coming up but we feel barrier free at the moment.

What help (if any) does the team require to move positively forward?

We don’t need specific help at the moment but may require some help with privacy legislation and considerations moving forward.

What questions or concerns does the team have (if any)?

A review about Privacy concerns centered around our application and how the Local Authority Freedom of Information and Protections of Privacy (LA FOIP) applies would be helpful.