Project Charter for Recyclr

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Problem Statement:

Recycling is important in today's world, given the number of people and the sheer amount of waste generated on a regular basis. A lot of people/organizations shy away from recycling products because of the cost and the logistical issues associated with it. Recyclr aims to promote collaborative recycling within a community. People who have a lot of products to recycle are encouraged to hold on to it until they have a substantial amount of waste, which they can then put up as a listing on Recyclr, and interested recycling companies can coordinate a time to come pick it up.

Project Objectives:

- Incentivize recycling in areas with limited access to recycling programs.
- Allow users and organizations to gain some value for waste that could otherwise be recycled.
- Provide an easy to use service for users to get rid of their recyclable waste

Stakeholders:

- Project Coordinator: To be determined
- Project Owners: Development Team
- Developers:
    - Cory Laker - claker@purdue.edu
    - Geoffrey Myers - myers259@purdue.edu
    - Pranav Vasudha - pvasudha@purdue.edu
    - Ryan Walden - waldenr@purdue.edu
    - Vedant Nevetia - vnevatia@purdue.edu
    - Zachary Rich - richz@purdue.edu
- Application Users:
    - Recycling and Landfill/Garbage Disposal companies
    - People with limited access to recycling

Deliverables:

- Provide a frontend to the web application using React, giving the users a way to use the app.
- A backend cloud-hosted server and API written in Go using GraphQL.
- Profiles and user authentication for organizations and users.

- Database and persistent data storage using PostgreSQL
- Pickup scheduling and monitoring system for users to be able to keep track of their recycling process holistically.

Past CS 30700 Projects:

- **Geoffrey Myers, Zach Rich: Upgrade - https://github.com/Ztrains/upgrade**
    - Upgrade is a mobile application to connect students with tutors and other students to study together. Students can get paired with tutors for 1-on-1 help, or just use class message boards to discuss the class and ask questions.
- **Pranav Vasudha, Vedant Nevetia: Pecan - https://github.com/vnev/pecan**
    - Pecan is a survey application to make and share surveys, with built-in data analysis tools such as graphing, and also some machine learning elements to predict trends in the data.
- **Cory Laker, Ryan Walden: Where@ - (Github is private)**
    - Where@ is a travel guide for tourists looking for a unique local experience such as attractions, restaurants. Furthermore, it provides a chance for local/small businesses to attract a larger customer base. Where@ will allow users to post and vote on locations and experiences.