

Final Programming Project

Balawejder 2022

The Problem:

Recycling of materials is a key aspect to creating a more sustainable world. One problem that comes along with recycling however is when non-recyclable are included in a recycling bin. There are many things to consider when your household waste is being placed into a recycling bin. The term aspirational recycler has been coined for when people take non-recyclable or soiled (most commonly with food) and place them into a recycling bin. This is done in hopes that they are recyclable and wanting to do the right thing for the environment, however, when these non-recyclable item are placed into a bin they can contaminate all of the recyclables in that bin. In this case the best of intentions results in large amounts of recyclable ending up in landfills because they cannot be processed.

Your Assignment:

Develop a program to help assist in the above problem description. This program can take many forms and there are no right or wrong ways to approach this problem. You could consider a possible “gamification” of the recycling problem, an educational tool, an automated solution to prevent miss use or recycling bins, etc.

Things to consider:

- This project is intentionally left open ended so have fun when programming it and work towards an innovative solution
- Points will be given for “creativity and innovation” these points will be rewarded based on a level of effort that is seen in the project.
- Holding a brainstorming session with your group on just how to tackle this problem can be useful in getting your thoughts organized. This session should be held up front to set the course of the project and get everyone working towards the final goal.
- The key to a great project is to have fun in creating it, so do some reading and research and brainstorm a solution that can help the world!