

Optimizing Recycling: ReWaste

Problem: Many people will not recycle because they are unsure what is recyclable in their region and will decide to just throw the items away. Others will recycle but do more harm than good when they put items in the recyclables when they are actually not. Mixing recyclables with trash reduces the effectiveness of recycling systems because they will need to be found and sorted out.

Solution: Creating an app (ReWaste), that will help sort trash and recyclables from each other based on the area. It will have waste sorting guides, waste areas with maps, rewards, have reminders, and collection routes.

Existing Solutions: There are similar apps that have features such as a sorting guide, recycling reminders, and local recycling information. ReWaste is different because its waste sorting feature is more generalized, there is a reward system, and routes are based on real time data.

Justification: There is a global waste crisis as the population continues to rise and tons of waste is improperly disposed of every year. A large portion of plastics end up in landfills, oceans, and other landfills. This causes long term damage to the wildlife, natural resources, and the environment.

Software solution:

- Use a dictionary to see if items are recyclable in the first place
- Recycling reminders will appear based on user input
- Points are earned based on what is entered (Tuple and Lists)
 - Will automatically add up and print out at the end
- So on