

Product Backlog for Team 7: 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.

Background Information

There are many local communities in the US with limited access to recycling. There are currently very limited incentives to recycle besides genuine interest in such areas. No other alternatives besides smaller local efforts exist to recycle material and waste in areas where it is not an option. We plan to provide incentives to recycle to encourage even people who ordinarily wouldn't care about it.

Similar systems exist certain state/local governments, such as offering coins in exchange for bottles or residents paying for a curbside recycling service. While Recyclr would not offer a monetary compensation like the government solutions, it would provide incentives for users to gather and sort recycling, as well as incentives for others to collect user's recycling.

Although there has been a large push for recycling in urban areas, there are many neighborhoods that don't have the option to recycle. Recyclr will aim to aid those areas, as some of the residents of the neighborhood may want the option to recycle when the local/state government does not offer the choice. Another limitation of larger recycling operations is the large cost of lengthy routes and heavy load. Recyclr will also aim to lower route times and load weights by allowing smaller operations to offer their services.

Requirements

- **Functional**

1. As a user, I would like to sign up with an account on Recyclr.
2. As a user, I would like to sign in with my account on Recyclr.
3. As a user, I would like sign up option using Google.
4. As a user, I would like sign in/sign out option using Google.
5. As a user, I would like to sign out of my account.
6. As a company, I would like to be able to sign up with an account on Recyclr.
7. As a company, I would like to be able to sign into my account on Recyclr.
8. As a company, I would like to be able to sign out of my account.
9. As a user, I would like to be able to change my email and password.
10. As a user, I would like to be able to change my account settings.
11. As a user, I would like to be able to delete my account.
12. As a user, I would like to be able to track my own recycling progress.
13. As a user, I would like to be able to share my recycling progress on social media.
14. As a user, I would like to be able to pay for my recycling to be collected at my home.
15. As a user, I would like to be able to use convenient payment methods like PayPal.
16. As a user, I would like to be able to arrange times and locations for my recyclables to be picked up.
17. As a user, I would like to post information about my recyclable material
18. As an admin, I would like to ban abusive users.
19. As a company, I would like to be able to view users who have put up recyclable items for pickup in a given vicinity.
20. As a company, I would like to be able to contact the user whose items I am picking up with information about arrival time, etc.
21. As a user, I would like to be able to track the progress of my recyclable items.
22. As a user, I would like to have an option to be incentivized upon completing a certain number of recycles.
23. As a user, I would like to be able to track my incentivized progress.
24. As a user, I would like to be able to view my invoice for previous transactions.
25. As a company, I would like to be able to charge the user based on the weight of the amount of recyclable material.

26. As a user, I would like to be given subsidized costs when the weight of my recyclable items exceeds a minimum.
27. As a user, I would like to be able to see how available companies are in the area
28. As a company, I would also like to be able to view my transaction history.
29. As a user, I would like to be given a summary of the total weight of recyclable items I have sold, as well as how much space I have saved in a landfill.
30. As a company, I would like to know the total weight of recyclable items I have bought and recycled.
31. As a user, I would like to be able to learn more about recycling.
32. As a user, I would like to be able to sell compost material (if time permits).
33. As a user, I would like to be able to buy compost material (if time permits).
34. As a company, I would like to be able to pick up compost material (if time permits).
35. As a user, I would like to be able to see the current prices of recyclable raw materials.
36. As a user, I would like to be able to rate a company that picked up my recyclable material.
37. As a user, I would like to be able to view a company's rating.
38. As a As a developer, I would like my code to well documented.
39. As a developer, I want a streamlined deployment pipeline
40. As a developer, I would like my application to well tested.

- **Non-Functional**

1. Quick response time from the server
2. Encrypting private user information such as passwords, email addresses and home addresses
3. Our web app will be accessible and easy to use.
4. Our web app will be able to handle numerous users at time
5. Our database will quickly handle all the users at a given time and give quick responses.