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Group 8
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Deliverable B

Introduction:

On the 26th of January 2021, we met with the client Mitch Bouchard, to discuss the development of an effective waste management system. Throughout the meeting we were able to engage Mitch with many relevant questions and take the appropriate notes in order to fully understand the needs of the client. The waste management system is to be designed for users in such a way that it can be used for household recycling. The designed application is to be up to 95 percent effective while minimizing the cost and is under the $100 price cap. After meeting with the client, we were able to determine the needs of the customer and how the product is to perform. The following deliverable contains useful information that will aid in creating a suitable design that meets the clients' standards.

Client Needs:

Number	Customer Statement	Interpreted Need
1	An effective new way or more efficient to the current way to sort recyclable materials (mostly plastic), so less ends up in landfills, or can be bought by people who use recyclable materials	The application is effectively able to sort recyclable materials (mostly plastic)
2	To make recycling easier, and more user friendly	The application is easy to manage
3	Solution is user friendly	The application is easy to use
4	Is cost effective	The application is low cost
5	Scalable	The application is scalable
6	Currently targeting household users	The application targets households
7	Would like a 95% effective solution for sorting	The application is accurate
8	Catches materials in the wrong bin earlier than the current process	The application is accurate

Importance of Needs:

1 - most important, 7 - least important

Number	Client Need	Importance
1	The application is effectively able to sort recyclable materials (mostly plastic)	1
2	The application is easy to manage	4
3	The application is easy to use	2
4	The application is low cost	6
5	The application is scalable	7
6	The application targets households	5
7	The application is accurate	3

The problem is that many of the existing methods for dealing with recyclable waste are not efficient enough, which makes it harder and harder to dispose of the plastic around us. This is not just an individual problem, it is a problem for all people living on the planet. We need to provide a solution to effectively solve the problem of recycling recyclable waste. This method needs to be easy to use, accurate, easy to manage. And scalable, targeting as many household units as possible.

Problem Statement:

A need exists for recyclable materials, focusing on plastic, to be sorted more effectively with an application that is user friendly, scaleable, and cost effective for household users.

Conclusion:

In conclusion, Mitch is looking for a solution to decrease the amount of recyclables going to landfills by creating a cost-effective, user-friendly, accurate/effective, and scalable solution. Mitch would prefer if the solution is 95% accurate and stays within the $100 budget. As a team, we think the most critical needs are effectiveness and user-friendliness, as it is important that the solution improves the current waste management system. Some current issues at the moment include the time difference between group members, the limited time we have to create the solution, and making it so everyday people will want to use it.