

SQUANDER

SPRING 2022 CAPSTONE PROJECT | PROF HENRY WONG

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AGENDA



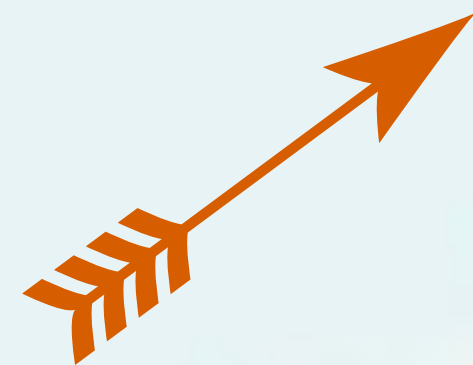
Project Description



Technologies



Market Analysis



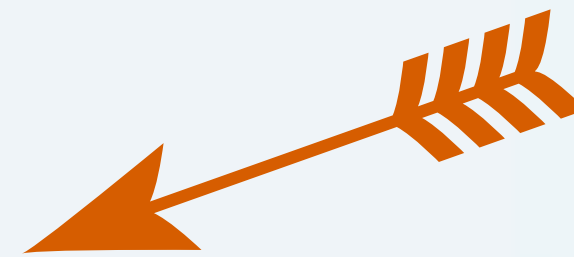
Personas



Sprint Schedules



Retrospective



PROJECT DESCRIPTION



PROJECT DESCRIPTION

- Squander is an application that allows users to manage waste by analyzing images to categorize types of waste and to plan waste management accordingly.
- The goal of this project is to make it easier to recycle waste after any kind of event or project.

TECHNOLOGIES

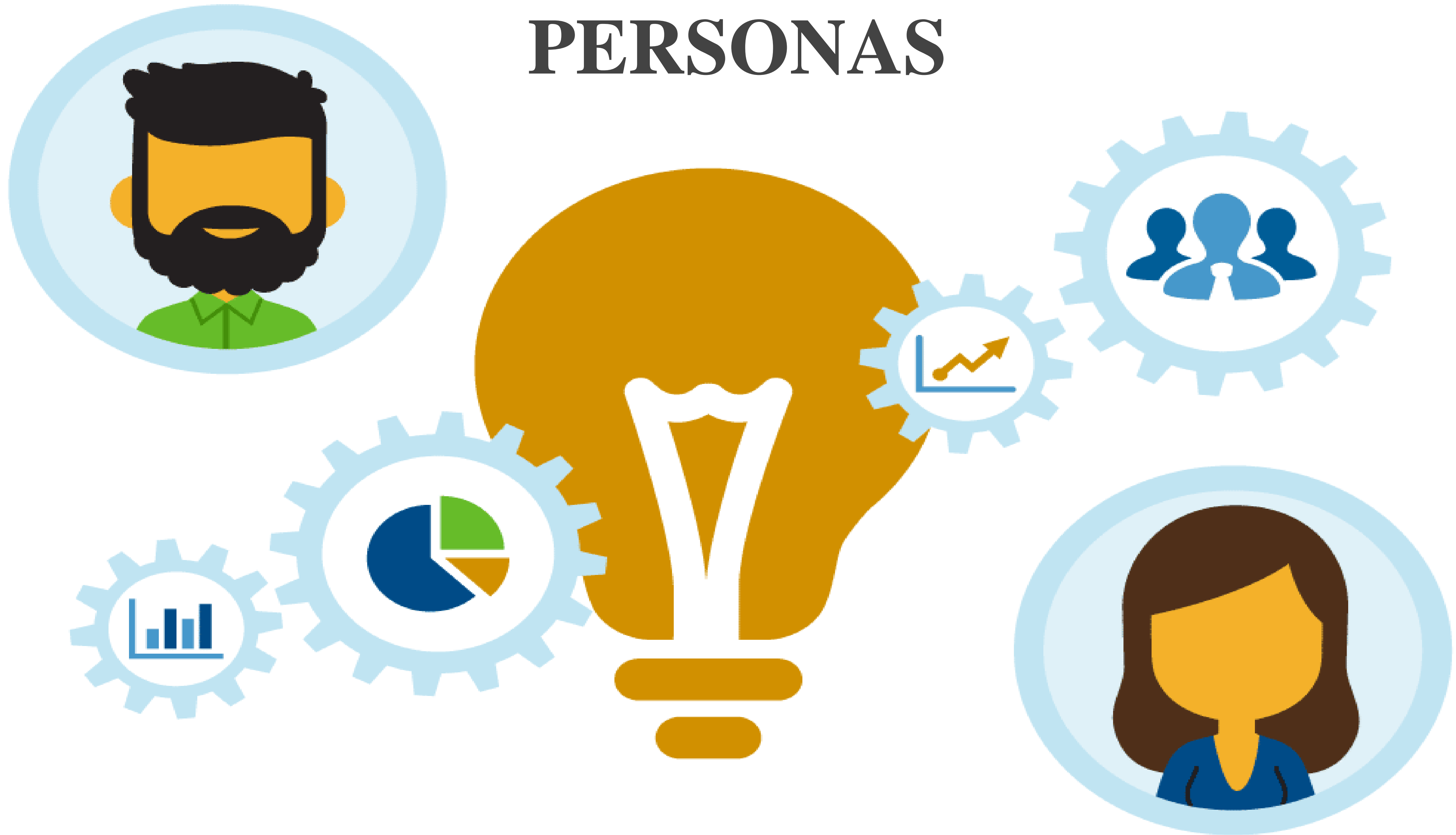




MARKET ANALYSIS

AppName	Platform	Image Recognition	Function
Squander	Web and Mobile Application	Yes	Uses Image recognition to detect waste and allows user to find proper recycling plants and schedule pickup.
RecycleNation	Web and Mobile Application	No	Can locate recycling centers on map, tracks user contribution to recycling movement.
WhatGoesWhere	Web and Mobile Application	No	Guides user for curbside program and drop-off location to maximize recycling.
WM	Web and Mobile Application	No	Allows pickup Service for residential, business waste by prior scheduling.

PERSONAS



Simon : Manager at discreteWaste.co



Simon is the manager at discreteWaste company. He is responsible for creating an efficient system that could segregate the waste into categories that could improve the value generated from the waste segregation and reduce the cost of disposal.

Jill: Environment Philanthropist



Jill is rich business man, he wants his money to make an impact of the world for his grandchildren. His passion is on improving how we manage the waste and wants to invest money on waste segregation tools and improve recycling.

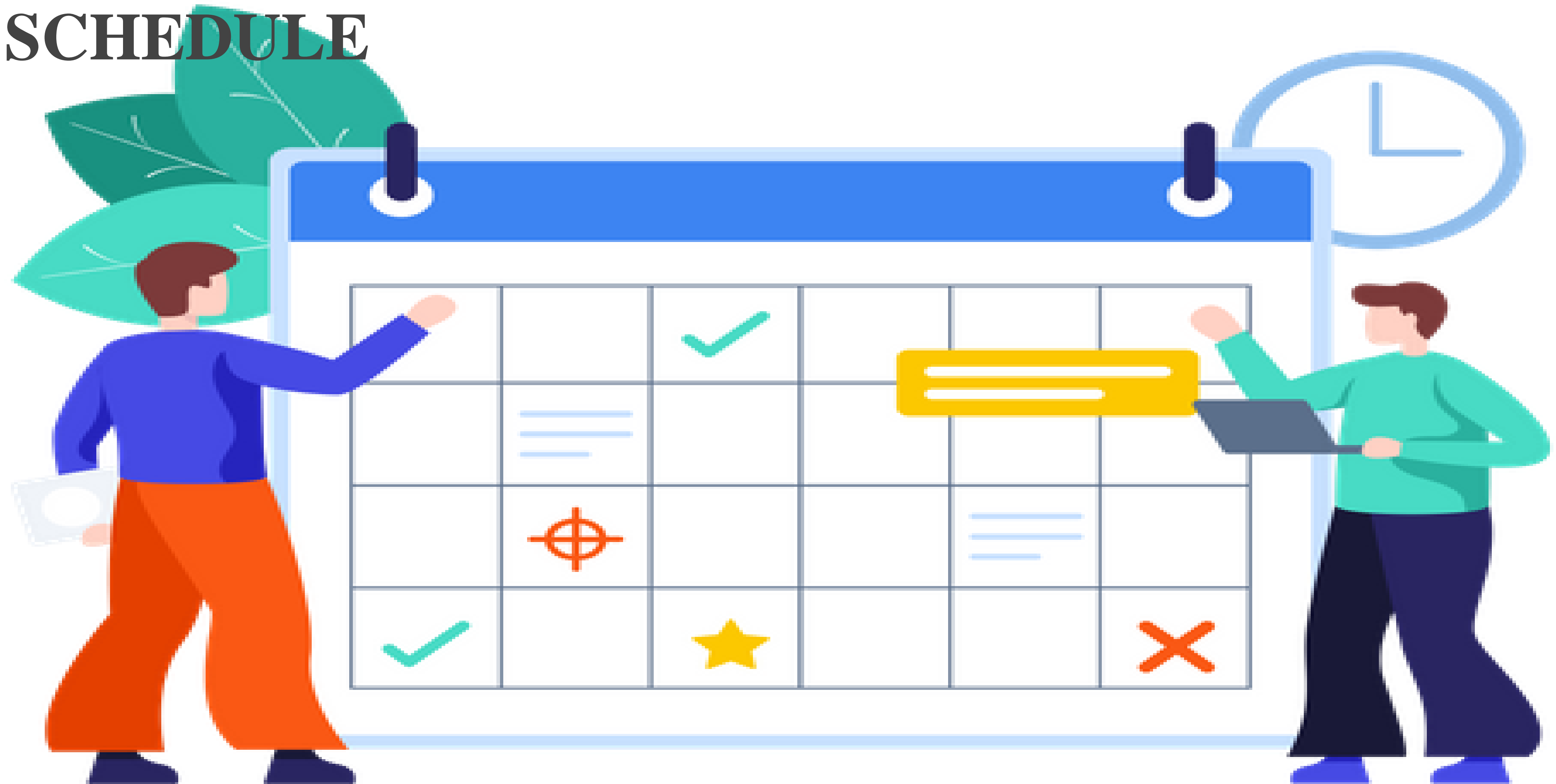
Mark : Engineer



Mark works at the segregation engineering team and want a system to analyse the efficiency of the current segregation system. He also wants to keep the quality of the process high even during the automated phase of the system.

SPRINT

SCHEDULE



Sprint 1 Feb 3 - Feb 24			
Name	Status	Priority	Estimation(days)
Discuss Project ideas and brainstorming	Done	High	10
Create Team Roles	Done	Medium	2
Establish Weekly Meetings	Done	Medium	3
Set up Github and Wiki Page	Working on it	Medium	2
Work on Deliverable 1	Working on it	High	5
Total			22
Sprint 2 Feb 24 - March 10			
Name	Status	Priority	Estimation(days)
Research Existing Models	Working on it	Medium	2
Research on various types of waste	Working on it	Medium	2
Create User Stories	Not Started Yet	High	2
Use existing models to train a new model	Not Started Yet	High	3
Collect Training Data	Working on it	Medium	3
Work on Deliverable 2	Not Started Yet	Medium	3
Total			15

Sprint 3 March 10 - April 7			
Name	Status	Priority	Estimation(days)
Draft Technical Paper	Not Started Yet	Medium	7
Train ML Model	Not Started Yet	High	7
Test/Evaluate ML Model	Not Started Yet	High	7
Incorporate the ML Model into the Application	Not Started Yet	High	5
Work on Deliverable 3	Not Started Yet	Medium	7
			Total: 33
Sprint 4 Apr 7 - May 5			
Name	Status	Priority	Estimation(days)
Finish Development of Application	Not Started Yet	High	5
Finish Project Demo	Not Started Yet	Critical	5
Finish Technical Paper	Not Started Yet	Critical	5
Work on Deliverable 4	Not Started Yet	Medium	7
			Total: 22

RETROSPECTIVE



WHAT WENT WELL

- We did well collecting useful and relevant background information for the project
- We have done a good job defining goals and agendas before having meetings

WHAT NEEDS IMPROVEMENT

- Creating a consistent meeting time to better coordinate parallel workflows in the team.
- Work on more ways to consolidate the information we collect individually.

FUTURE STEPS

- Keeping track of various task and proper time scheduling.

CONCLUSION