



The Recycle Buddy

ENSE 374: Team Lore

Presented By:

Brydon Herauf, Jasmeet Singh, Yi Xu



01

Project Roles

Project Roles



Brydon

Back-End Developer

Github Manager



Jasmeet

Front-End & UI/UX Design
Developer

Marketing Manager



Yi

Front-End Developer
Communications Manager



02

Project Background



Project Background

What


Our team has decided to make an app that makes it easier for people to get the information they need about recycling. As recycling is extremely necessary for the success of our species moving forward. Without it, waste buildup would get out of control and result in an inhabitable planet for us. By recycling, we are helping to eliminate this risk, while contributing to other issues such as pollution in general, and climate change. An app that encourages more people to start recycling through its ease of use, is something that we can make, which has the potential to make a difference.

Who

Generally, people have good intentions when it comes to recycling, but often do not know how, and don't bother learning. Due to this, we see the need for an all in one information application, where users can go to find what they're looking for, from a trustworthy source.

Why

Ultimately the reason "why" we have chosen this idea, is to raise awareness and do something about the urgent global issues we are facing. Doing something worthwhile, and growing as software engineers at the same time, is truly an opportunity we could not refuse.



An illustration of a person with dark hair in a ponytail, wearing a yellow hard hat, a pink long-sleeved shirt, blue pants, and dark boots. They are kneeling on a light green surface, holding a brown cardboard box with a white recycling symbol. The box is filled with various items including a green bottle, a blue bottle, and some red and white objects. There are green plants and leaves around them. In the background, there are more green plants and a large green bottle. The overall style is flat and modern.

03

Project Planning

Planning Documents

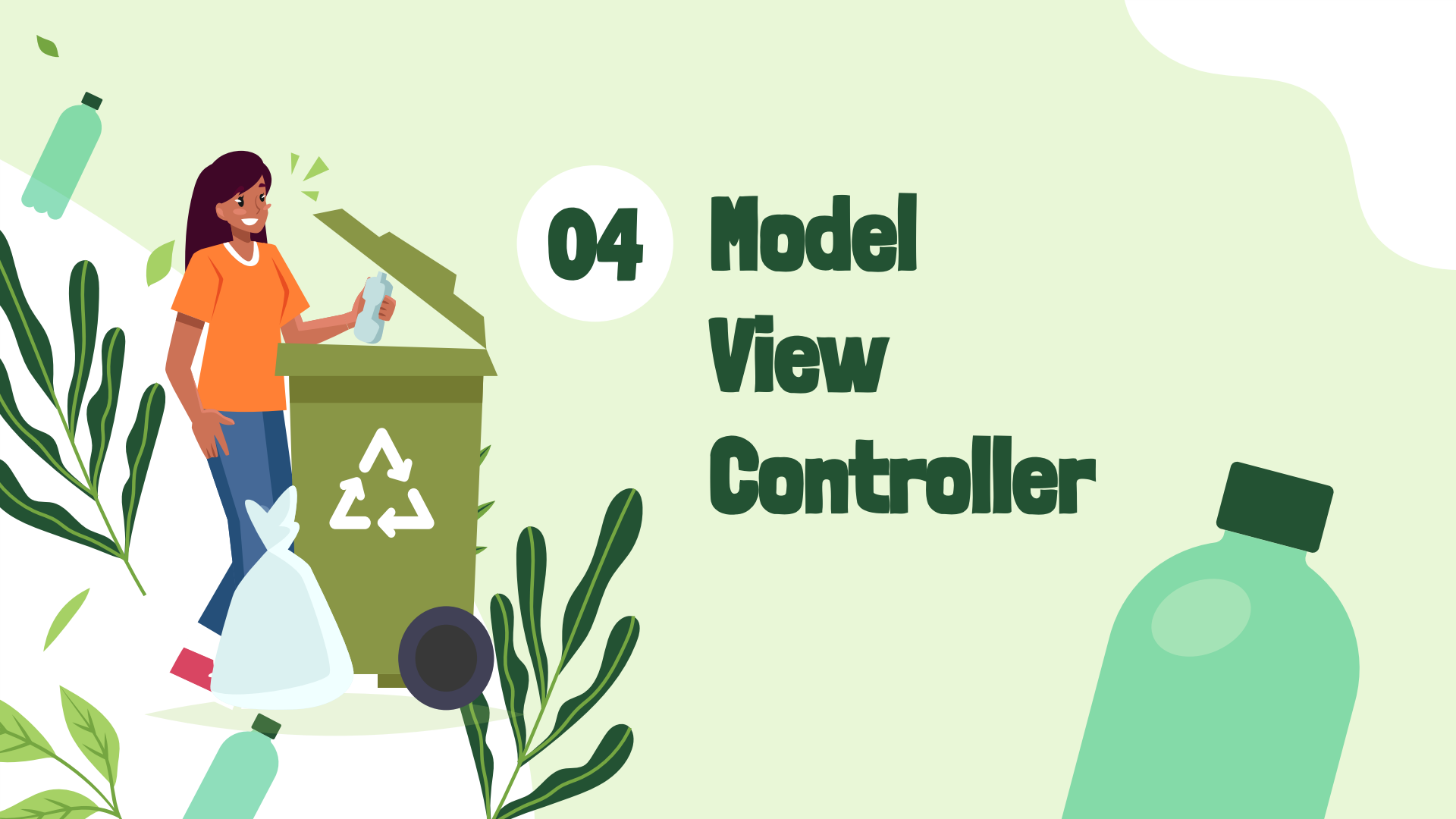
STAKEHOLDER REGISTER				
Project Name	ENSE 374: Team Lore - The Recycle Buddy			
Name	Project Role	Level of Power	Level of Interest	Level of Support
Timothy Maciag	Team Leader and Sponsor	High	High	Supportive
Brydon Herauf	Backend Developer and GitHub Manager	High	High	Supportive
Jasmeet Singh	Frontend UI/UX Design Developer and Marketing Manager	High	High	Supportive
Yi Xu	Frontend Developer and Communications Manager	High	High	Supportive
Primary users	Regina people who are interested in recycling initiatives and moving towards a cleaner environment	Low	High	Supportive
Secondary users	People in Regina that do not currently recycle, but are interested in recycling in the future	Low	High	Supportive
Other users	People who live outside of the city, but visit Regina regularly and want to recycle	Low	High	Supportive
Climate activists	People who also encourage citizens to recycle more	Low	High	Supportive
Recycling organizations	If more people do recycling, they will gain more customers potentially	Low	Low	Neutral

PROJECT CHARTER	
Project Name	ENSE 374: Team Lore – The Recycle Buddy
Date Produced	October 17, 2022
Project Goals	This project aims to create an all-in-one information application for recycling. It hopes to create a highly understandable and usable tool which will encourage more people to recycle. At the same time, this project will help us learn a lot about the development process. This supports the goals of the ENSE 374 course, since it is unique, worthwhile, and will aid in our growth as software engineers.
Project Objectives	For us to grow as software engineers, we will be able to complete at least the first MVP and deliver a complete and well-prepared product in the end. The app will be understandable, for any test user we give it to. It will allow users to come on to the app and find the information they are looking in less than 30 seconds.
Project Budget	This project has no dollar budget. The only resource is our time, which is limited to about 10 hours per week.
Project Sponsor	Timothy Maciag, Ph.D. University of Regina Lecturer, Software Systems Engineering
Project Manager	This project is managed equally by its members: Brydon Herauf, Student, University of Regina, Jasmeet Singh, Student, University of Regina, Yi Xu, Student, University of Regina
Additional Key Project Stakeholders	
Our primary users, who are people living in Regina who are interested in recycling initiatives and moving towards a cleaner environment.	
Our secondary users, who are people that do not currently recycle, but are interested in recycling in the future.	
Other users, who live outside of the city, but visit Regina regularly and want to recycle.	
Climate activists since we are encouraging people to recycle more.	
Recycling organizations like SARCAN, who will potentially gain more customers.	

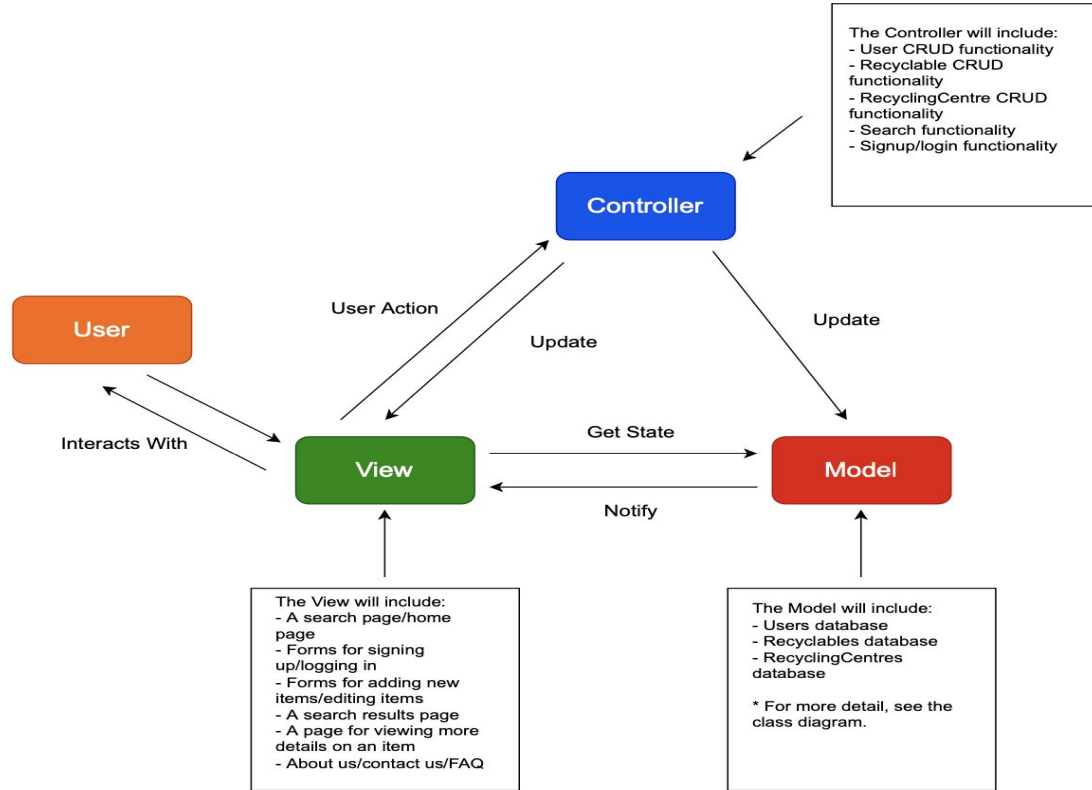
RACI CHART FOR MVP1			
	Y	J	B
Search function	A	A	R
Search bar frontend	A	R	A
Login/signup backend	A	A	R
Login/signup frontend	R	A	A
User entry form	A	R	A
User/Item CRUD	A	A	R
UI/UX	R	R	A
User view/edit their entries frontend	R	A	A
Item info page frontend	R	A	A
Deleting entries as admins frontend	A	R	A
Separation of official and user submitted entries frontend	A	R	A
R—Responsible A—Accountable C—Consulted I—Informed			



Model View Controller



Model, View, Controller





05

KanBan Board



KanBan Board

Brydon13

Projects

ENSE 374 Team Lore KanBan Board (Internal)

Search or jump to...

+

ENSE 374 Team Lore KanBan Board (Internal)

View 1

+ New view

Filter by keyword or by field

3

...

Todo

Draft

Centre CRUD

Draft

Deleting items as admins frontend

Draft

Separation of official and user submitted entries frontend

+ Add item

0

...

In Progress

+ Add item

28

...

Done

Draft

Passport Integration

Draft

Search Function

Draft

Item CRUD

Draft

User view/edit their entries frontend

Draft

Search Bar frontend

Draft

Login/Signup frontend

Draft

Login/Signup backend

+ Add item

Brydon13

Projects

ENSE 374 Team Lore KanBan Board (User Stories)

Search or jump to...

+

ENSE 374 Team Lore KanBan Board (User Stories)

View 1

+ New view

Filter by keyword or by field

8

...

Todo

Draft

As a user, I should know whether an entry is official or user-submitted, so I know if I can completely trust it.

Draft

As an admin, I should be able to remove entries, so that the app stays accurate and clean.

Draft

As a user, I should see recycling locations near me on a map, so I know where to take items.

Draft

As an admin, I should be able to convert accurate user-submitted posts to make them official, so the official post collection can grow and more people will find solid information.

Draft

As a user, I should be able to browse common items, so I can quickly find what I am looking

+ Add item

0

...

In Progress

+ Add item

6

...

Done

Draft

As a user, I should be able to login, so that I can add or edit entries in the database.

Draft

As a logged in user, I should be able to view and edit my entries, so I can correct any mistakes I may have made.

Draft

As a user, I should be able to view information pages on items, so that I can learn what I have come to discover.

Draft

As a user, I should be able to search for the item I am looking for, in order to locate my desired information about it.

Draft

As a user, I should be able to create an account if I don't have one, so I can login.

+ Add item

Brydon13

Projects

ENSE 374 Team Lore MVPs

Search or jump to...

+

ENSE 374 Team Lore MVPs

View 1

View 2

+ New view

Filter by keyword or by field

7

...

MVP 1

Draft

Search Bar For Finding Items (Will require a backend search function)

Draft

Ability for users to login (not required for using app)

Draft

Ability for logged in users to add items

Draft

Database for entries (both official and user submitted) with CRUD operations

Draft

Ability for users to view info page on entries after searching them

Draft

Ability for users to view and edit their entries

+ Add item

14

...

MVP 2

Draft

GPS pinpoint feature for items (official entries only)

Draft

Admins can approve user submitted posts to make them official

Draft

Common items section

Draft

Improved UI/UX

Draft

Feature for identifying recyclability based on number codes on item

Draft

Ability for users to flag inappropriate or inaccurate postings

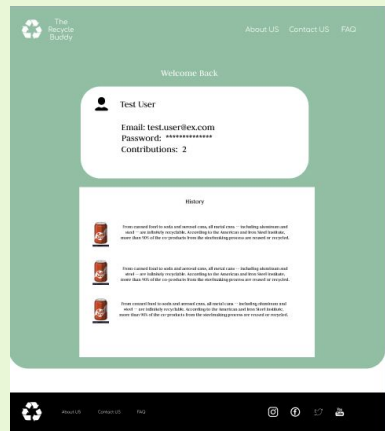
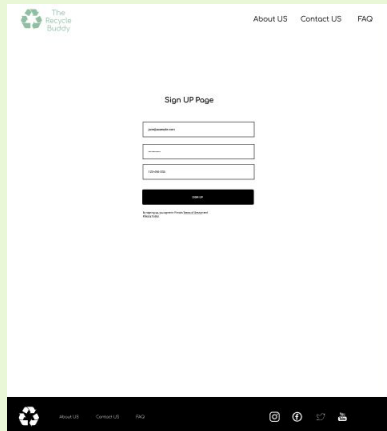
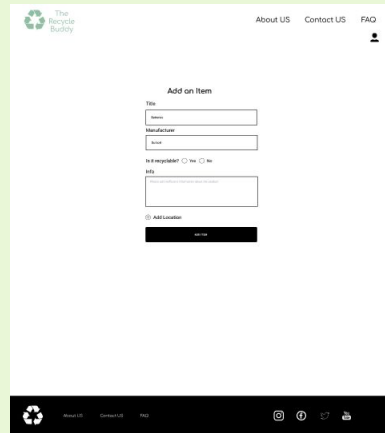
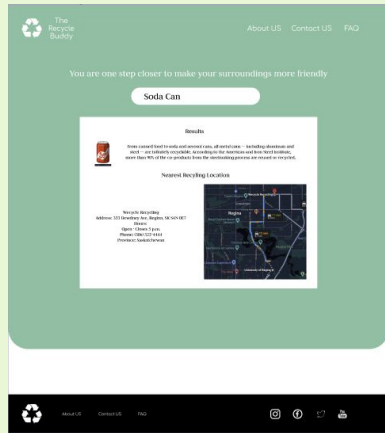
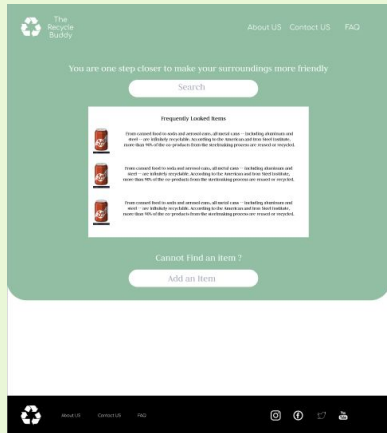
+ Add item



06

Hi-Fi ProtoType

Hi-Fi ProtoType





07

User Feedback






User Feedback

Feedback 1:

"The HiFi is very nice, I understand that it is all just concept ideas but my only suggestion would be to change up the colours, the green specifically. Something a bit darker would work very well and maybe try switching the background (the green) and the white around? I think that would look quite nice . The login is also a different colour scheme to the rest of the website, so try and keep it the same, other than that it is great!"

Feedback 2:

"The user questionnaire was also well done. Answering the question "is it simple to create an account and log in", I am not sure how to navigate there. Is it after I click the "Add an item" button? I feel like a login/register button should also be on the nav bar on the home page for quicker access and a better user experience."





DEMO





08

Team Reflections



Team Reflections

What did we like about the project?

It was nice to get experience of all aspects of the project not just the coding module such as:

- Proper Documentation
- Pre-Planning phase
- Different techniques to follow up on the to-do's for e.g. Kanban Boards

What did our team feel most proud of throughout the project?

We are immensely proud of our work ethic and getting all things done even when not working at the same time due to time conflicts.

Thank You!

Any Questions?

