



PROGRAMMING STUDIO FOOD WASTE HELP.org

<p> Noah Bakr s4095646
Connor Orders s4096467 </p>



THE PERSONAS



THE LANDING PAGE

A clean, warm welcome section that invites the user while simultaneously presents topics of fresh fruit and vegetables

Food Waste Help

Our Mission Sub Task 2.A Sub Task 2.B Sub Task 3.A Sub Task 3.B



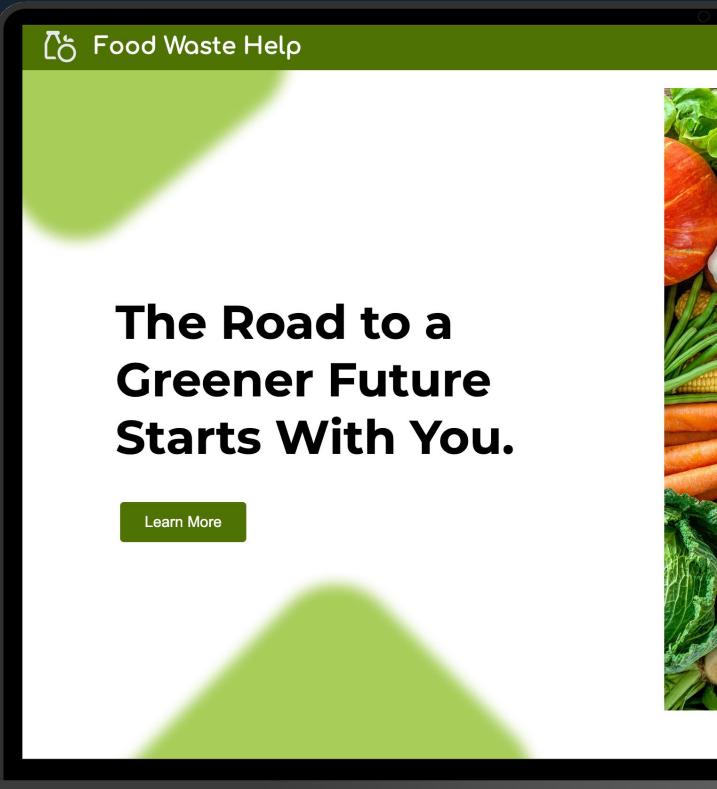
The Road to a Greener Future Starts With You.

Learn More



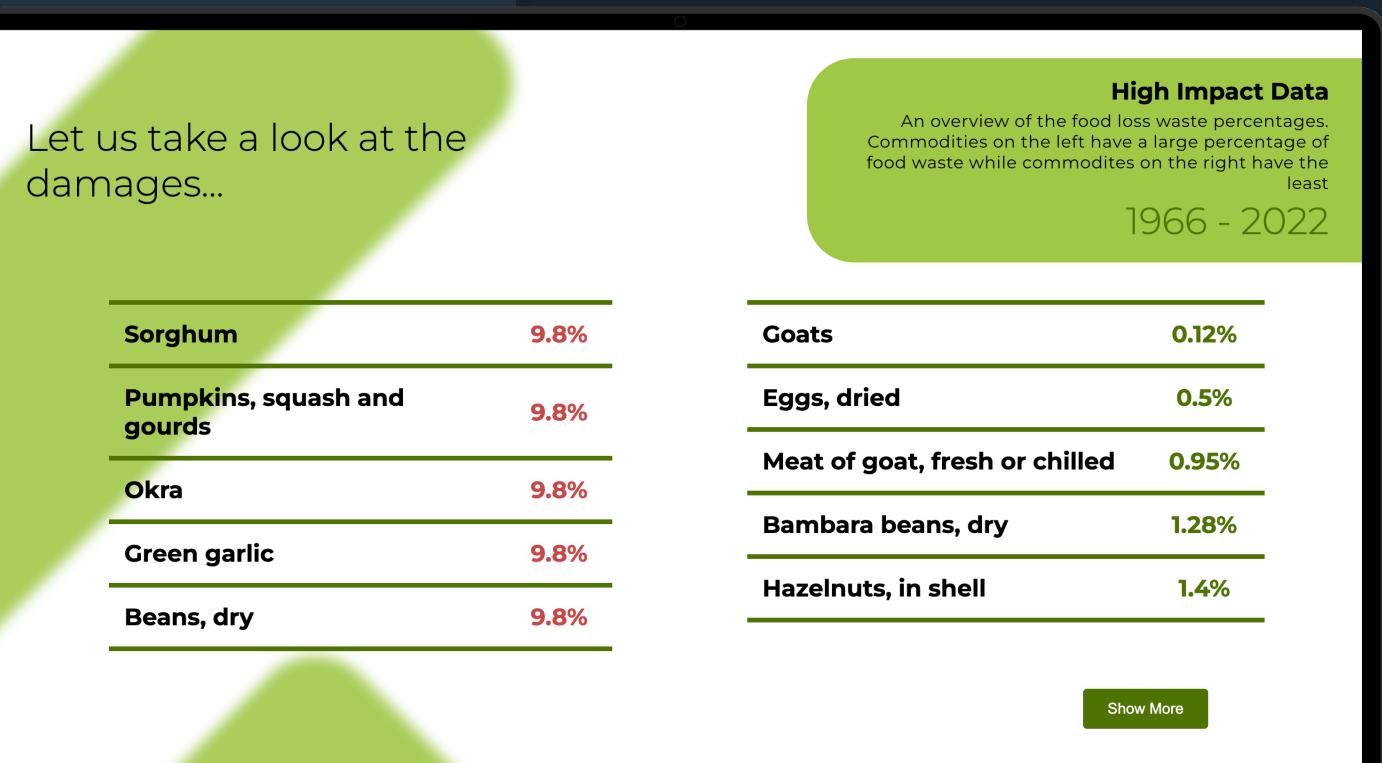
AESTHETIC AND **MINIMALISTIC** DESIGN HEURISTIC

- Clean UI/UX that does not overwhelm the user
- An Attractive UI



THE LANDING PAGE

A table outlining the top 5 highest food contributors towards food waste and the 5 least, providing an overall picture to the user





MATCH BETWEEN SYSTEM AND **REAL WORLD** DESIGN HEURISTIC

- Red is bad while Green is good
- Traffic light approach
- Users automatically assume this rule

Let us take a look at the damages...

Sorghum	9.8%
Pumpkins, squash and gourds	9.8%
Okra	9.8%
Green garlic	9.8%
Beans, dry	9.8%



THE LANDING PAGE

Business information panel allows for the users to view a snapshot of how businesses are helping to prevent food waste

What businesses are doing to help this social challenge

Woolworths

OzHarvest distributes our surplus fresh food from our supermarkets and Metro stores to over 1,500 charities across the nation to help Australians in need of food relief.

[Learn More](#)

Coles

Our first choice for unsold, edible food is to donate it to food rescue organisations such as Secondbite and Foodbank. Following that, we have other food waste solutions including donations to farmers and animal or wildlife services, organics collections and in-store food waste disposal equipment.

[Learn More](#)

StarBucks

In 2016, Starbucks partners (employees) advocated for a program that would allow stores to donate unsold food and distribute it to people facing hunger in communities across the U.S. In response, Starbucks partnered with Feeding America®, and other hunger-relief organizations to create a sustainable food rescue program – FoodShare – that diverts surplus food from landfills and donate it to people facing hunger

[Learn More](#)

Fruit Leather

Over the years we have been experimenting on how to convert wasted fruit into leather-like material. By doing so, we are able to bring an eco-friendly and animal-friendly product to the market. Fruitleather is a versatile material which can be made into footwear, fashion accessories, upholstery, furnishing, and more

[Learn More](#)



THE MISSION PAGE

Provides context to the user regarding our purpose, how to use our website and the extent of our advanced tools/processes

The tablet screen shows a webpage with a green header bar. The header includes a logo, the text 'Food Waste Help', and a navigation menu with links: 'Our Mission', 'Sub Task 2.A', 'Sub Task 2.B', 'Sub Task 3.A', and 'Sub Task 3.B'. The main content area has a white background. The first section is titled 'How the website addresses the social challenge' and contains text about the site's design and information for users. Below it is a section titled 'Usage and primary functions' with text about the site's features. To the right is a section titled 'Advanced Users' with text about more complex features. At the bottom is a section titled 'Personas' featuring a small profile picture and the name 'John Smith'.

THE MISSION PAGE

A carousel display that presents the 3 personas utilised in the planning & development of the website



John Smith

John owns a fresh fruit and vegetable store called 'Smith Produce'. He is a sole trader, putting hours and pride into his business. John appreciates his customers and aims to develop customer relations and a good reputation in his local area. John is 47 years old, he is married and has 2 children, aged 17 and 19. John has come from a family where they were taught to finish their plates and not to waste food, John has focused on teaching this principle to his children and believes this should be instilled in all children. John is considerably upset on the amount of food waste that he must throw out, due to decay or expiration. John has recently been concerned about his storage fridges as over time, the number of malfunctions and errors is increasing.

Needs

John eyesight is long-sighted, the website must account for John's vision impairment via accessibility tools. The website must provide John with strategies to prevent food waste and potential areas of focus that may be worsening this issue in his store. John also wants to view how other companies in his market are handling this problem.

Goals

John wants to use the information gathered from the website to inform his customers (individuals and families) on how to keep food edible and stored for longer. John's main goal for this new approach is to minimise food loss/wastage and increase is local reputation. He believes that possessing a certificate regarding food wastage will help customers to purchase is produce with confidence.

Skills and Experience

John uses his computer to browse the web and check emails, while he primarily uses is smartphone for communication and taking photos. John manages the stock himself, since he has not undertaken a degree regarding business entrepreneurship and takes a 'learn as you go' approach, this has led to incorrect forecasting. As a result, over purchasing stock has occurred and rendered large amounts of food inedible. John has strong experience in communicating with customers and managing a store, with 10 years of experience.





FLEXIBILITY AND EFFICIENCY OF USE DESIGN HEURISTIC

- The carousel can be interacted with in multiple ways
- Clicking the arrow or the three dots
- Using the keyboard with arrow keys



John Smith

John owns a fresh fruit and vegetable store called 'Sri'. John appreciates his customers and aims to develop old, he is married and has 2 children, aged 17 and 19 and not to waste food, John has focused on teaching children. John is considerably upset on the amount of recently been concerned about his storage fridges as

Needs

John eyesight is long-sighted, the website must account for John's vision impairment strategies to prevent food waste and potential areas of focus that may be worse in his market are handling this problem.

Goals

John wants to use the information gathered from the website to inform his customers longer. John's main goal for this new approach is to minimise food loss/wastage regarding food wastage will help customers to purchase is produce with confidence.

Skills and Experience

John uses his computer to browse the web and check emails, while he primarily manages the stock himself, since he has not undertaken a degree regarding business enterprise incorrect forecasting. As a result, over purchasing stock has occurred and rendered communicating with customers and managing a store, with 10 years of experience.

THE FOOD WASTE CHANGES PAGE

An intuitive UI layout that presents Food Waste Change data based on the user's input

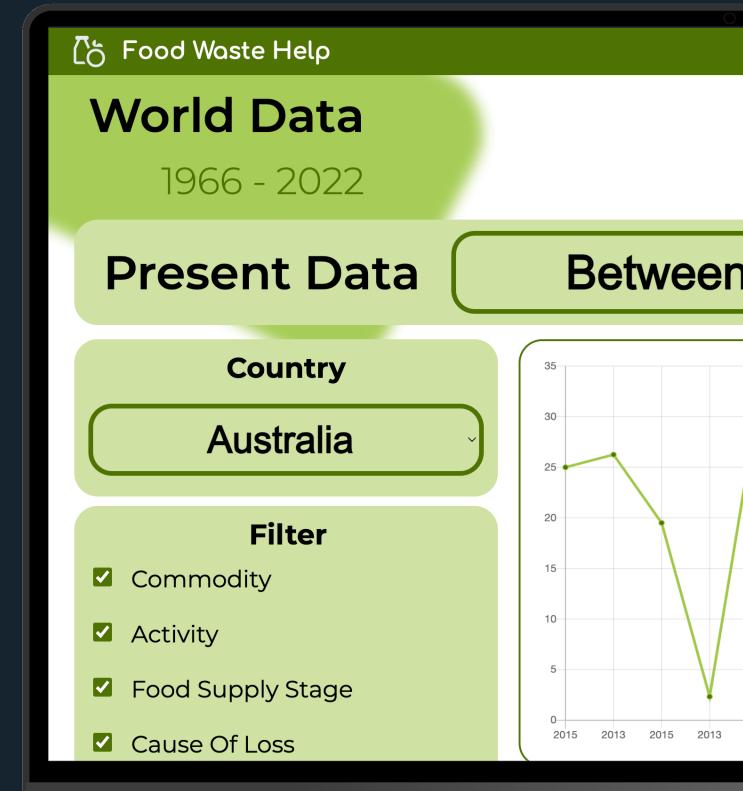




ERROR PREVENTION DESIGN HEURISTIC



```
//Backwards Year Range Error Tolerance
if (Integer.valueOf(firstYear) > Integer.valueOf(secondYear))
{
    String temp = secondYear;
    secondYear = firstYear;
    firstYear = temp;
}
```



THE FOOD WASTE CHANGES PAGE

A further dive into Food Waste Change data based on the user's checkbox input

The screenshot shows a web application interface with a dark blue header featuring three circular icons (red, yellow, green) on the left. The main content area has a light gray background. At the top left, there is a green button with a checkmark icon and the text "Cause Of Loss". To its right is a small "Reload Data" button. Below these are two horizontal bars: a light green one at the top and a light blue one below it, both showing numerical values (e.g., 0, 2015, 2013, 2015, etc.) across multiple columns. The main data table is titled "Cause Of Loss" and has the following structure:

Commodity	Activity	Food Supply Stage	Cause of Loss	Loss Percentage	Year
Beans, dry	Consumption	Households		25.0	2015
Cabbages	Processing	Processing		26.25	2013
Cabbages	Consumption	Households		19.5	2015
Carrots and turnips	Processing	Processing		2.33	2013
Carrots and turnips	Consumption	Households		31.0	2015
Cauliflowers and broccoli	Processing	Processing		20.57	2013

At the bottom of the page, there is a green footer bar with the text "Food Waste Help" and "Our Mission" on the left, and a copyright notice "© Food Waste Help, 2024 Noah Bakr, Connor Orders" on the right.

THE PERCENTAGE CHANGES FOR GROUPS

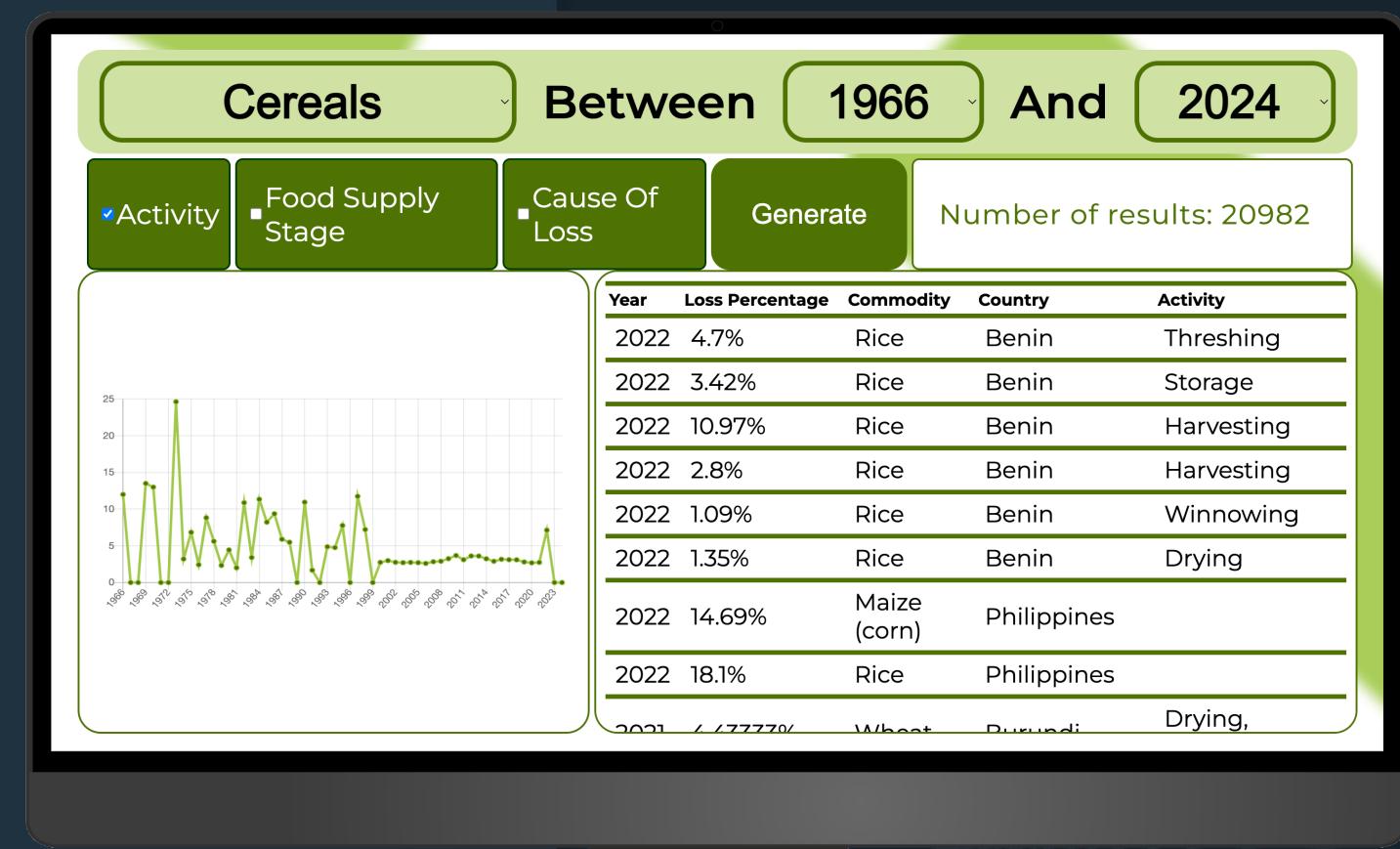
Users can locate the change in loss percentage filtered by selected commodity groups

The screenshot shows a web application titled "Food Waste Help". The main heading is "Loss Percentage" with the subtitle "1966 - 2022". Below this, there are four dropdown menus: "Cereals" (selected), "Between 1966 And 2024", "Activity" (selected), and "Food Supply Stage". There are also two checkboxes: "Cause Of Loss" and "Generate". A message indicates "Number of results: 20982". To the right, a chart displays a single data point as a sharp peak at approximately 25% loss. Below the chart is a table with five rows of data:

Year	Loss Percentage	Commodity	Country	Activity
2022	4.7%	Rice	Benin	Threshing
2022	3.42%	Rice	Benin	Storage
2022	10.97%	Rice	Benin	Harvesting
2022	2.8%	Rice	Benin	Harvesting
2022	1.09%	Rice	Benin	Winnowing

THE PERCENTAGE CHANGES FOR GROUPS

Users can locate the change in loss percentage filtered by selected commodity groups



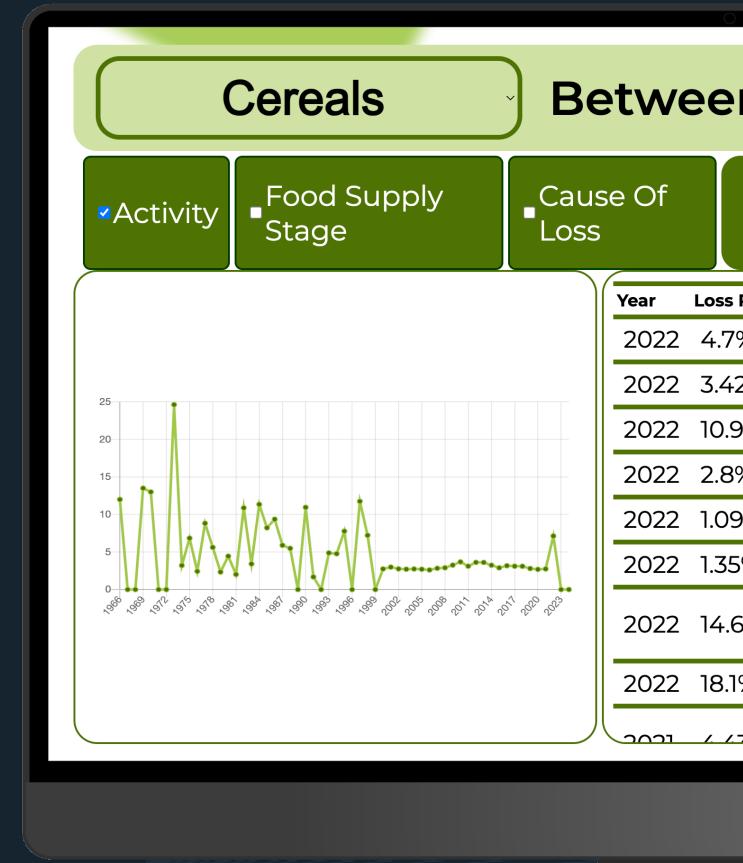


VISIBILITY OF

SYSTEM STATUS

DESIGN HEURISTIC

- Query returns the number of results (records)
- Provides user with a sense for the size of database query





CONSISTENCY AND STANDARDS



- Scrolling to the bottom of the years dropdown was annoying to users
- Query returns years column in reverse order (2024 to 1966)



```
SELECT DISTINCT year FROM date ORDER BY year DESC
```

The screenshot shows a web application interface for 'Food Waste Help'. At the top, there are navigation links: 'Our Mission', 'Sub Task 2.A', 'Sub Task 2.B', 'Sub Task 3.A', and 'Sub Task 3.B'. Below this is a title 'Loss Percentage' with a subtitle '1966 - 2022'. A search bar contains the text 'Cereals Between 1966 And 2024'. Underneath the search bar are three dropdown menus: 'Activity' (selected), 'Food Supply Stage', and 'Cause Of Loss'. To the right of these is a 'Generate' button and a note 'Number of results: 20982'. Below the search area is a chart showing loss percentage over time, with a prominent peak around 1966. To the right of the chart is a table with the following data:

Year	Loss Percentage	Commodity	Country	Activity
2022	4.7%	Rice	Benin	Threshing
2022	3.42%	Rice	Benin	Storage
2022	10.97%	Rice	Benin	Harvesting
2022	2.8%	Rice	Benin	Harvesting
2022	109%	Rice	Benin	Winnowing

THE SIMILAR COUNTRIES PAGE

A look into the countries with similar data to the user's choice, through their deciding and determining factors

The screenshot shows a web application titled "Food Waste Help" with a green header bar. The header includes a logo, the text "Food Waste Help", and navigation links: "Our Mission", "Sub Task 2.A", "Sub Task 2.B", "Sub Task 3.A", and "Sub Task 3.B". Below the header, a green banner displays "World Data" and the years "1966 - 2022". To the right of the banner, the text "Locations with similar food loss/waste percentages" is visible. The main content area has a light green background. It features a search bar with the placeholder "Countries Similar to" followed by "Australia" and "from 2013". On the left, there is a sidebar with sections for "Similarity" (radio buttons for "The food products", "Overall food loss/waste", and "Both"), "Is decided on:" (radio buttons for "The absolute values" and "The level of overlap/waste"), and "Determined by:" (radio buttons for "The absolute values" and "The level of overlap/waste"). A dropdown menu "No. of items" is set to "15". At the bottom of the sidebar is a "Reload List" button. To the right of the sidebar is a table with the following data:

Country	No. of Similar Commodities	Similarity Score (COM)	Loss Percentage	Similarity Score (FL)	Similarity Total	Year
Australia	7	100.0	16.04	100.0	100.0	2013
United States of America	6	85.71	8.2	68.65	77.18	2013
Finland	2	28.57	21.5	78.15	53.36	2013
Mexico	1	14.29	19.01	88.11	51.2	2013



RECOGNITION RATHER THAN RECALL DESIGN HEURISTIC

- Users enters inputs with predefined choices
- Choices are formed in a sentence for better understanding

The screenshot shows a mobile application interface titled "Food Waste Help". At the top, it says "World Data 1966 - 2022". Below that, a section titled "Countries Similar to" is partially visible. A green callout box labeled "Similarity" contains settings for determining similarity: "Is decided on:" (radio buttons for "The food products", "Overall food loss/waste", and "Both", with "Both" selected); "Determined by:" (radio buttons for "The absolute values" and "The level of overlap/waste", with "The absolute values" selected); and a dropdown menu "No. of items" set to 15. A "Reload List" button is at the bottom of this box. To the right is a table titled "Country" and "No. of Similar Commodities" with the following data:

Country	No. of Similar Commodities
Australia	7
United States of America	6
Finland	2
Mexico	1

THE FOOTER ELEMENT

Navigation bar is fixed to screen, so the footer is a 'simple' version to catch the mouse cursor

The screenshot shows a web application with a dark blue header featuring three colored dots (red, yellow, green) on the left. The main content area has a light green background. On the left, there's a sidebar with a light green header containing the word 'Similarity'. Below it, under 'Is decided on:', there are three radio buttons: 'The food products' (unselected), 'Overall food loss/waste' (unselected), and 'Both' (selected). Under 'Determined by:', there are two radio buttons: 'The absolute values' (selected) and 'The level of overlap/waste' (unselected). A dropdown menu labeled 'No. of items' shows '15' with a downward arrow. At the bottom of the sidebar is a 'Reload List' button. The main content area features a table with the following data:

Country	No. of Similar Commodities	Similarity Score (COM)	Loss Percentage	Similarity Score (FL)	Similarity Total	Year
Australia	7	100.0	16.04	100.0	100.0	2013
United States of America	6	85.71	8.2	68.65	77.18	2013
Finland	2	28.57	21.5	78.15	53.36	2013
Mexico	1	14.29	19.01	88.11	51.2	2013
India	2	28.57	9.47	73.71	51.14	2013
Panama	2	28.57	24.0	69.15	49.76	2017

At the bottom of the page, there's a green footer bar with the 'Food Waste Help' logo and a magnifying glass icon on the left, and links to 'Our Mission' and copyright information on the right: '© Food Waste Help. 2024 Noah Bakr, Connor Orders'.

THE COMMODITY LOOKUP PAGE

Allows users to select a specific commodity and view data for each sub-group

The screenshot shows a web application titled "Food Waste Help" with a navigation bar including "Our Mission", "Sub Task 2.A", "Sub Task 2.B", "Sub Task 3.A", and "Sub Task 3.B". The main title is "Commodity Code and Statistics Lookup". On the left, there are three buttons: "Food Loss Average" (selected), "Highest Percentage of Food Loss", and "Lowest Percentage or Food Loss". Below these are search fields for "Search for Products..." and a date input field showing "20". A "Search" button is also present. The main content area displays a list of commodities under the heading "Apple juice": "Almonds, in shell", "Anise, badian, coriander, cumin, caraway, fennel and juniper berries, raw", "Apple juice" (selected), and "Apples". To the right, a table provides detailed data for "Apple juice":

Commodity	Name	Code	(%)Loss
Group	Prepared and preserved fruit and nuts	214	5%

Below this, a table compares food loss percentages across different groups:

Group	MAX(%) food loss	Difference
Starches and starch products; sugars and sugar syrups n.e.c.	5.0%	0.0
Forage products; fibre crops; plants used in perfumery, pharmacy, or for insecticidal, fungicidal or similar purposes; beet, forage plant and flower seeds; natural rubber; living plants; cut flowers and flower buds; manufactured tobacco; other raw	6.0%	1.0

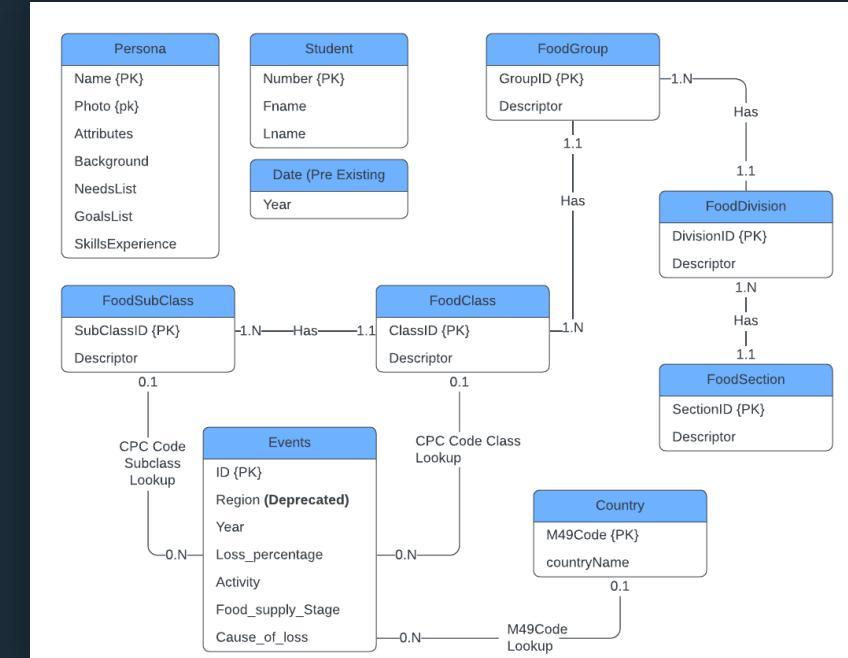
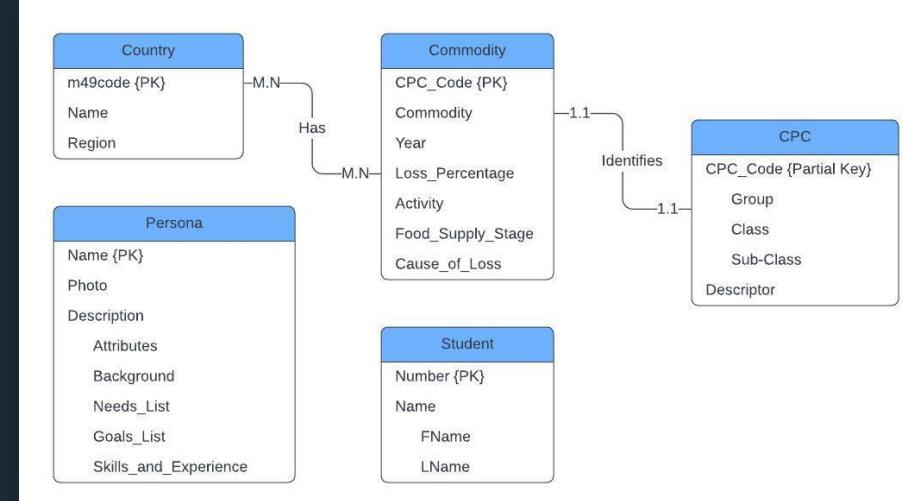


THE COMMODITY LOOKUP PAGE

Allows users to select a specific commodity and view data for each sub-group

Sugar crops	7.89%	2.89
Grain mill products	8.0%	3.0
Eggs of hens or other birds in shell, fresh	9.0%	4.0
Meat and meat products	9.0%	4.0
Other dairy products	9.0%	4.0
Food products n.e.c.	0.5%	4.5
Raw milk	9.5%	4.5
Edible roots and tubers with high starch or inulin content	9.6%	4.6
Pulses (dried leguminous vegetables)	9.8%	4.8
Vegetables	9.8%	4.8
Stimulant, spice and aromatic crops	9.89%	4.89
Fruit and nuts	9.9%	4.9
Oilseeds and oleaginous fruits	9.96%	4.96
Cereals	9.979%	4.979
Wines	22.7%	17.7
Macaroni, noodles, couscous and similar farinaceous products	28.0%	23.0

ER DIAGRAM DEVELOPMENT





DEPENDENCIES.

Student Number -> First Name, Last Name

Persona Name, Photo -> Attribute, Background Name, NeedsList, GoalsList, SkillsExperience

SectionID -> FoodSection.Descriptor

DivisionId -> FoodDivision.SectionId,
FoodDivision.Descriptor

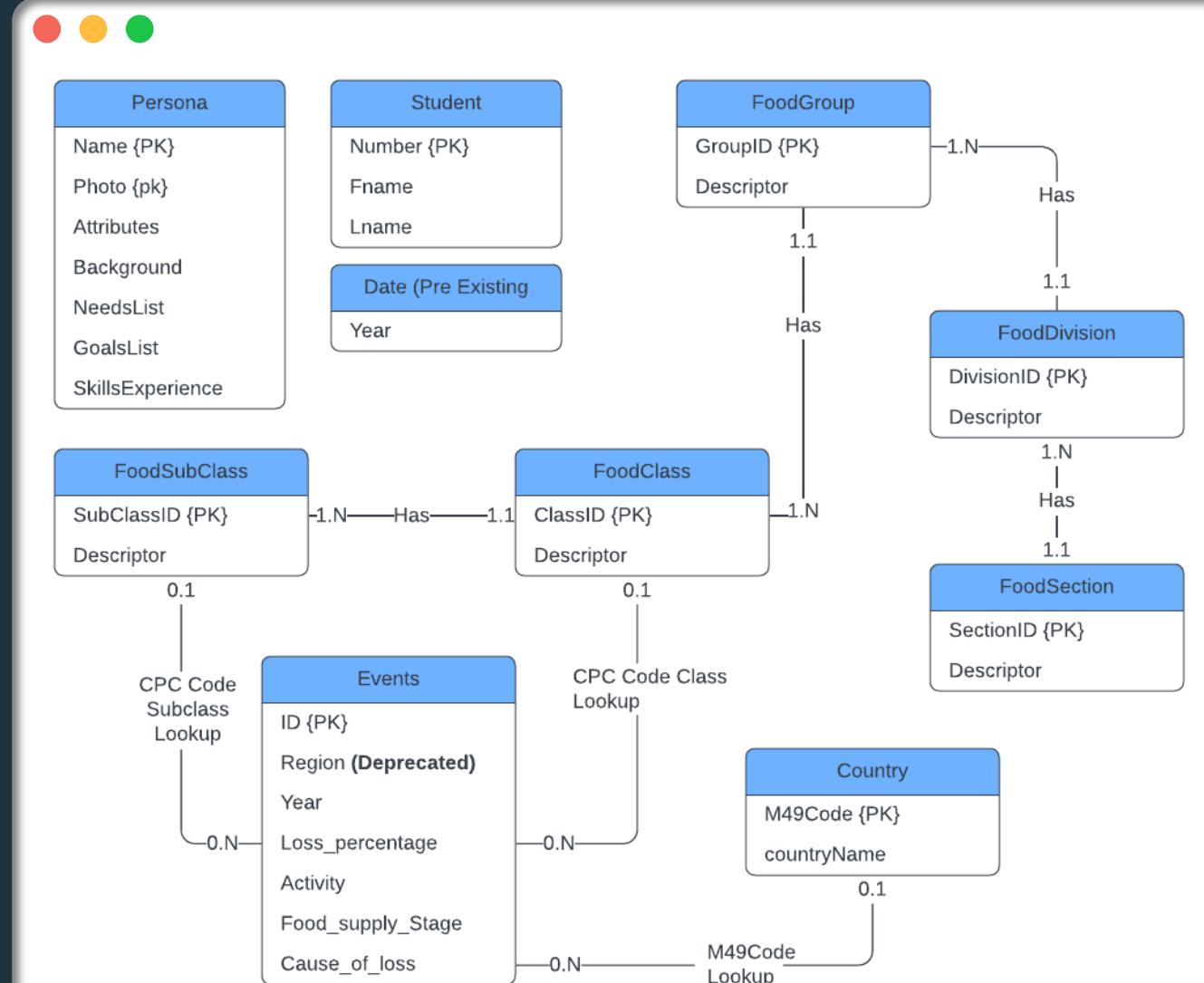
GroupId -> FoodGroup.DivisionId GroupId,
FoodGroup.Descriptor

ClassId -> FoodClass.GroupId, FoodClass.
Descriptor

SubclassId -> FoodSubclass.ClassId,
Subclass.Descriptor

M49Code -> countryName

ID -> Events.M49Code, Events.Region,
Events.Cpc_Code, Events.Year,
Events.Loss_Percentage, Events.Activity,
Events.Food_Supply_Stage, Events.Cause_of_Loss





THIRD NORMAL FORM

<p> Country (m49Code, countryName)

Date (Year)

Events (ID, M49Code*, Region, Cpc_code*, Year*, Loss_percentage, Activity, Food_supply_stage, Cause_of_loss)

FoodSection (SectionId, Descriptor)

FoodDivision (DivisionId, SectionId*, Descriptor)

FoodGroup (GroupId, DivisionId*, Descriptor)

FoodClass (ClassId, GroupId*, Descriptor)

FoodSubclass (SubclassId, ClassId*, Descriptor)

Persona (Name, Photo, Attributes, Background, NeedsList, GoalsList, SkillsExperience)

Student (Number, FName, LName) </p>



USABILITY TESTING CHANGES

LET'S REVIEW SOME FEEDBACK.



Level One | A

- Minimalistic Aesthetic
- Good colour scheme
- Buttons made sense
- Businesses text is too small

Level One | B

- Large chunks of text
- Background hurt readability
- Inefficient scrolling

Level Two | A

- Charts look good
- Country radio buttons were clunky
- Default values are not updated

Level Two | B

- Year dropdowns with reversed order
- Should be able to select multiple choices

Level Three | A

- Intuitive radio buttons

Level Three | B

- User's choice is lost in scroll element



LANDING PAGE CHANGES

What businesses are doing to help this social challenge

Woolworths
OzHarvest distributes our surplus fresh food from our supermarkets and Metro stores to over 1,500 charities across the nation to help Australians in need of food relief.
[Learn More](#)

Coles
Our first choice for unsold, edible food is to donate it to food rescue organisations such as Secondbite and Foodbank. Following that, we have other food waste solutions including donations to farmers and animal or wildlife services, organics collections and in-store food waste disposal equipment.
[Learn More](#)

StarBucks
In 2016, Starbucks partners (employees) advocated for a program that would allow stores to donate unsold food and distribute it to people facing hunger in communities across the U.S. In response, Starbucks partnered with Feeding America®, and other hunger-relief organizations to create a sustainable food rescue program – FoodShare – that diverts surplus food from landfills and donate it to people facing hunger.
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Fruit Leather
Over the years we have been experimenting on how to convert wasted fruit into leather-like material. By doing so, we are able to bring an eco-friendly and animal-friendly product to the market. Fruitleather is a versatile material which can be made into footwear, fashion accessories, upholstery, furnishing, and more.
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- Background made it difficult to read
- Added a blur layer to background
- Lightened the green colour

What businesses are doing to help this social challenge

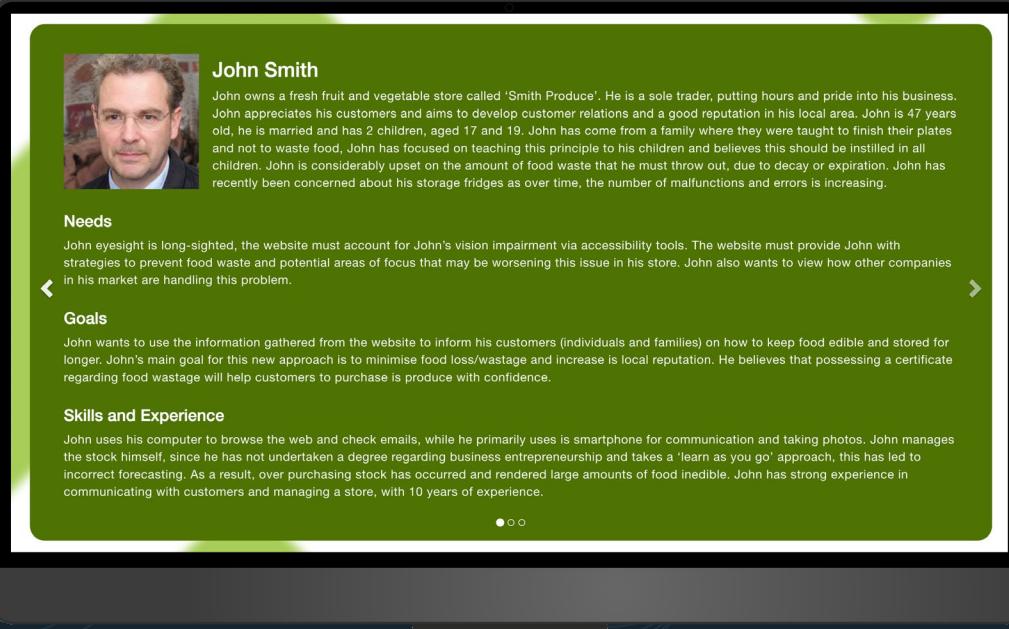
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MISSION PAGE CHANGES



- Large chunks of text
 - Background hurt readability
 - Inefficient scrolling

Food Waste Help

Our Mission

How the website addresses the social challenge

The website addresses the social challenge by providing a simple to use as well as inclusive design that allows for people experienced in food waste to find information surrounding the topic. For new users and people who are less knowledgeable about food waste the site allows them to quickly find "information" as a place to get started. The graphs presented allow the user to filter based on many factors that they may want to know about, educating people with the use of graphs and diagrams, along with summaries for the general information someone new could want to know about and graphs containing data for more advanced users.

Usage and primary functions

The site has multiple primary ways that it can be used depending on what the intended user wants to do. If the user is new or does not understand much about food waste and just needs a summary, the website contains sections that allows for the user to read a brief summary of what food waste is and what the website aims to do to help prevent or educate about it. There is a section that informs new users of the most important information surrounding the form of food waste and how it is measured. This is followed by a section that allows the user to filter the data they want to see from the website, for example, Decrease of the highest percentage changes within the year / averaged over a few years. For advanced users and people looking for more specific information, there are one (possibly two) depending on how it is used, more interactive charts, depending on how the advanced user wants to use the website. One big page graph that shows the user the data they want to see all at once, along with other smaller graphs that show the data in a more detailed view all as categorizing by or choosing a country or a food group which will then be summarized in a simple graph. For the advanced usage graph it will provide more specific details on the data, such as being able to zoom in on a specific area, or move the data from one area to a different area dedicated to the advanced graph that allows for sorting by specifics such as by specific food divisions as well as being able to compare the yearly food waste of different products side by side this is on top of the other features that are provided in the simple graph menu on the main page.

The Creators

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Noah Baker | +40956466

Partners



John Smith
 John owns a fresh fruit and vegetable store called "Smith Produce". He is a sole trader, putting hours and pride into his business. John appreciates the environment and wants to make a difference by generating a sustainable future for local area. John is 47 years old, he is married and has 2 children aged 17 and 10. John likes to live in a family where they can stay healthy and happy. John has a moderate food, John has focused on teaching this principle to his children and believes this should be instilled in all children. John is considerably concerned about food waste and the impact it has on the environment. John has recently been concerned about his storage fridges as over time, the number of malfunctions and errors is increasing.

Needs

John eyeglasses is long-sighted, the website must account for Johns vision impairment via accessibility tools. The website must provide John with strategies to prevent food waste and potential areas of focus that may be worsening this issue in his store. John also wants to view how other companies in his market are handling this problem.

Goals

John wants to use the information gathered from the website to inform his customers (individuals and families) on how to keep food edible and stored for longer. John's goal for this new approach is to minimize food waste/storage and increase is local reputation. He believes that possessing a certificate regarding food waste will assist him in purchasing it to promote with confidence.

Skills and Experience

John uses his computer to browse the web and check emails, while he primarily uses is smartphone for communication and taking photos. John manages the stock in his shop and takes care of the day-to-day operations. John is a sole trader and has no employees. John is not very good at reading graphs and forecasting. As a result, over purchasing stock has occurred and rendered large amounts of food inedible. John has strong experience in communicating with customers and managing a store, with 10 years of experience.



Karen Williams
 Karen is 38 years old, she is married and has 3 children, aged 6, 8 and 10. She is a stay-at-home mum, her husband is the lone breadwinner for the household. Karen is a bit worried about the impact of food waste on the environment. She has been trying to reduce food waste and acknowledge the long-term effects of wasting food. However, recently Karen viewed a news report which outlined the risks of food waste and the impact it has on the environment, specifically a larger global problem. Karen wants to become more food safe and put her money to the businesses that are trying to help this problem!

Needs

The website must provide Karen with an education to the businesses that are actively trying to reduce the impacts of food loss and waste. To improve her awareness, Karen wants to know which commodities are most responsible for food loss. Karen must find ways that she can improve food safety in her home.

Goals

Karen wants to gain a better understanding of which businesses are trying to reduce food loss and waste. Karen wants to become more aware as to what strategies these businesses are employing. Karen wants to become more food safe at her home.

Skills and Experience

Karen uses her phone to browse the internet, use social media and check emails regarding her children's school news. Karen is quite proficient in using technology, before she was married, Karen used to perform a large amount of word processing as a previous job therefore understands typical UI conventions.



Lucia Romano
 Lucia Romano is a 53-year-old Italian Australian who works for a greengrocer and has been tasked with creating a presentation about food waste that she has to present to her boss. Most of her presentations are images with minimal text, ideally the images are diagrams or infographics that are visually appealing. Lucia is not very good at reading graphs and forecasting. As a result, Lucia has to manually generate graphs and manually analyse data using excel. If it isn't available she will go find the raw information, which should be available for more advanced people. The data provided must be timely as Lucia intends to utilise the data for current processes.

Needs

She needs a function that allows her to use drag and drop to generate and manipulate the information provided. The product needs to allow her to generate the diagrams and graphs multiple factors relating to it. She needs to be able to sort through the data in multiple ways. Change the way it is presented, ideally the country, affected and show the yearly change in food loss. This should be presented in an easy-to-read diagram that she can take screenshots of so she can show her boss. Lucia is not very good at reading graphs and forecasting. As a result, Lucia has to manually generate graphs and manually analyse data using excel. If it isn't available she will go find the raw information, which should be available for more advanced people. The data provided must be timely as Lucia intends to utilise the data for current processes.

Goals

Lucia Romano wants to incorporate data found on the website in her reports. Her goal is to develop a true understanding of food waste statistics, respective to the entire world. This will allow her to gain a wider knowledge of food waste statistics and overall improving the data integrity of her report.

Skills and Experience

Is experienced in generating diagrams and graphs using excel, she uses her laptop to generate these as well as browse the web. If she is not satisfied with the performance of the website overall (visuals of the graphs, filters, etc.) if possible, she will download and manipulate the data herself!



MISSION PAGE CHANGES

```
<div id="myCarousel" class="carousel slide" data-ride="carousel" data-interval="15000">
    <!-- Indicators -->
    <ol class="carousel-indicators">
        <li data-target="#myCarousel" data-slide-to="0" class="active"></li>
        <li data-target="#myCarousel" data-slide-to="1"></li>
        <li data-target="#myCarousel" data-slide-to="2"></li>
    </ol>
    <!-- Left and right controls -->
    <a class="left carousel-control" href="#myCarousel" data-slide="prev" id='left'>
        <span class="glyphicon glyphicon-chevron-left"></span>
        <span class="sr-only">Previous</span>
    </a>
    <a class="right carousel-control" href="#myCarousel" data-slide="next" id='right'>
        <span class="glyphicon glyphicon-chevron-right"></span>
        <span class="sr-only">Next</span>
    </a>
```

-

- Large chunks of text
 - Background hurt readability
 - Inefficient scrolling

Food Waste Help

Our Mission Sub Task 2.A Sub Task 2.B Sub Task 3.A Sub Task 3.B

Our Mission

How the website addresses the social challenge

The website addresses the social challenge by providing a simple to use as well as intuitive design that allows for people experienced in food waste to find information surrounding the topic. For new users and people who are less knowledgeable about food waste the site allows them to quickly find information. The search function also allows the user to filter based on many factors that they may want to know about, educating people about food waste in an easy approach for most users. The general information someone new could want to know about and graphs containing data for people who are more knowledgeable.

Usage and primary functions

The site has multiple primary ways that it can be used depending on what the intended user wants to do. If the user is new or does not understand much about food waste and just needs a summary, the website contains sections that allows for the user to read a brief summary of what food waste is and what the website aims to do to help prevent or educate about it. There is a section that informs new users of the most common information summarized in the form of a graph. This graph shows the top 10 reasons why food is wasted in the home. There is also a section that shows the top 10 reasons why food is wasted in the food service industry. Decreased of the highest percentage changes within the year / averaged over a few years. For advanced users and people looking for more specific information there is a detailed graph that shows the top 10 reasons why food is wasted in the home. This graph is very similar to the one above. One big page or many little pages with navigation! The simple graph will only allow customization of some parameters such as start and end year as well as categorizing by or choosing a country or a food group which will then be summarized into a simple graph. For the advanced usage graph there are many more options to choose from such as the number of reasons, the reason type, the country, the food group, and the time period for specifics such as by specific food divisions as well as being able to compare the yearly food waste of different products side by side; this is on top of the other features that are provided in the simple graph menu on the main page.

The Creators

Connor Onders | x4096467

Noah Baker | x4096466

Persons

John Smith

John owns a fresh fruit and vegetable store called "Smith Produce". He is a sole trader, putting hours and pride into his business. John wants to make sure that his customers are getting the best quality produce. John is a father of three children, he is 35 years old, married and has 2 children aged 17 and 19. John has come from a family where they were taught to finish their plates and not to waste food. John wants to make sure that his customers are doing the same. He believes that if this could be instilled in all children, John is considerably worried about the future of food waste. John is also worried about the cost of food waste due to the price of food. John is also worried about storage fridges as over time, the number of malfunctions and errors is increasing.

Needs

John wishes to long-sighted, the website must account for John's vision impairment via accessibility tools. The website must provide John with strategies to prevent food waste and potential areas of focus that may be worsening this issue in his store. John also wants to view how other companies in his market are handling this problem.

Goals

John wants to use the information gathered from the website to inform his customers (individuals and families) on how to keep food edible and stored for longer. John also wants to use this new approach to minimize food waste and increase is local reputation. He believes that possessing a certificate regarding food waste will help customers to purchase with confidence.

Skills and Experience

John's skills include the ability to browse the web and check emails, while he primarily uses a smartphone for communication and takes photos. John manages the stock levels since he is the only person managing business expenses and sees a learn as you go approach, this has led to incorrect forecasting. As a result, over purchasing stock has occurred and rendered large amounts of food edible. John has strong experience in communicating with customers and managing a store, with 30 years of experience.

Karen Williams

Karen is 33 years old, she is married and has 2 children, aged 6 and 10. She is a stay at home mom, her business is the sole breadwinner however, Karen loves food cooking and what kind ingredients she needs to buy. Karen has not been taught to appreciate food and acknowledge the long-term effects of wasting food. However, recently Karen vowed a news report which outlined the risks of food waste and the impact it has on the environment. Karen is trying to make great preventions now so she can become more responsible and put her money to the businesses that are trying to help this problem.

Needs

The website must provide Karen with an indication to the businesses that are actively trying to reduce the impact of food loss and waste. To improve her awareness, Karen wants to know which commodities are most responsible for food loss. Karen must find ways that she can improve food safety in her home.

Goals

Karen wants to gain a better understanding of which businesses are trying to reduce food loss and waste. Karen wants to become more aware as to what strategies these businesses are actively displaying. Karen wants to become more food safe in her home.

Skills and Experience

Karen uses her phone to browse the internet, use social media and check emails regarding her children's school news. Karen is quite proficient in using technology, before she was married, Karen used to perform a large amount of word processing as a previous job therefore understands typical UI conventions.

Lucia Romano

Lucia is a 53-year-old Italian Australian who works for a greengrocer and has been tasked with creating a presentation about food waste that she is to present to her boss. Most of her presentations are images with minimal text, ideally the images are diagrams or infographics. Lucia is not very good at using excel, she finds it difficult to use and she is not very good at reading graphs. Lucia does not mind manually generating graphs and manually analysing data using excel. If it isn't she will go find the raw information, which should be available for more advanced people. The data provided must be timely as Lucia tends to utilise the data for current processes.

Needs

She needs a product that is simple to use and easy to expand and manipulate the information presented. The product needs to allow her to generate the diagrams and change multiple factors relating to it. She needs to be able to sort through the data in multiple ways. Change the years presented, adjust the counts, affected and see the yearly change in food loss. This should then be presented in an easy-to-read diagram that she can take screenshots of so she can show her boss. Lucia is not very good at reading graphs and she is not very good at using excel. Lucia is not very good at reading graphs and she is not very good at manipulating graphs and manually analysing data using excel. If it isn't she will go find the raw information, which should be available for more advanced people. The data provided must be timely as Lucia tends to utilise the data for current processes.

Goals

Lucia Romano wants to incorporate data found on the website in her own reports. Her goal is to develop a true understanding of food waste statistics, respective to the entire world. This will allow her to gain a wider knowledge of food waste statistics and overall improving the data integrity of her report.

Skills and Experience

Is experienced in generating diagrams and graphs using excel, she uses her laptop to generate these as well as browse the web. If she is not satisfied with the performance of the website overall (visuals of the graphs, filters, etc.) if possible, she will download and manipulate the data herself.

Food Waste Help

Our Mission

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FOOD WASTE CHANGES



- Country radio buttons were clunky
- Default values are not updated
- **Country selection is a dropdown**
- Inputs parse through 'submit'

FOOD WASTE CHANGES

- Country radio buttons were clunky
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- Inputs parse through 'submit'

```
ArrayList<Country> countryNames = jdbc.getAllCountries();

String country = context.formParam("chosen-countries");

for (Country name : countryNames) {
    if (name.getName().equals(country)) { //Objects.nonNull(var) is unnecessary
        html = html + "<option value=' " + name.getName() + "'selected='selected'>" + name.getName() + "</option>";
    } else {
        html = html + "<option value=' " + name.getName() + "'>" + name.getName() + "</option>";
    }
}
```



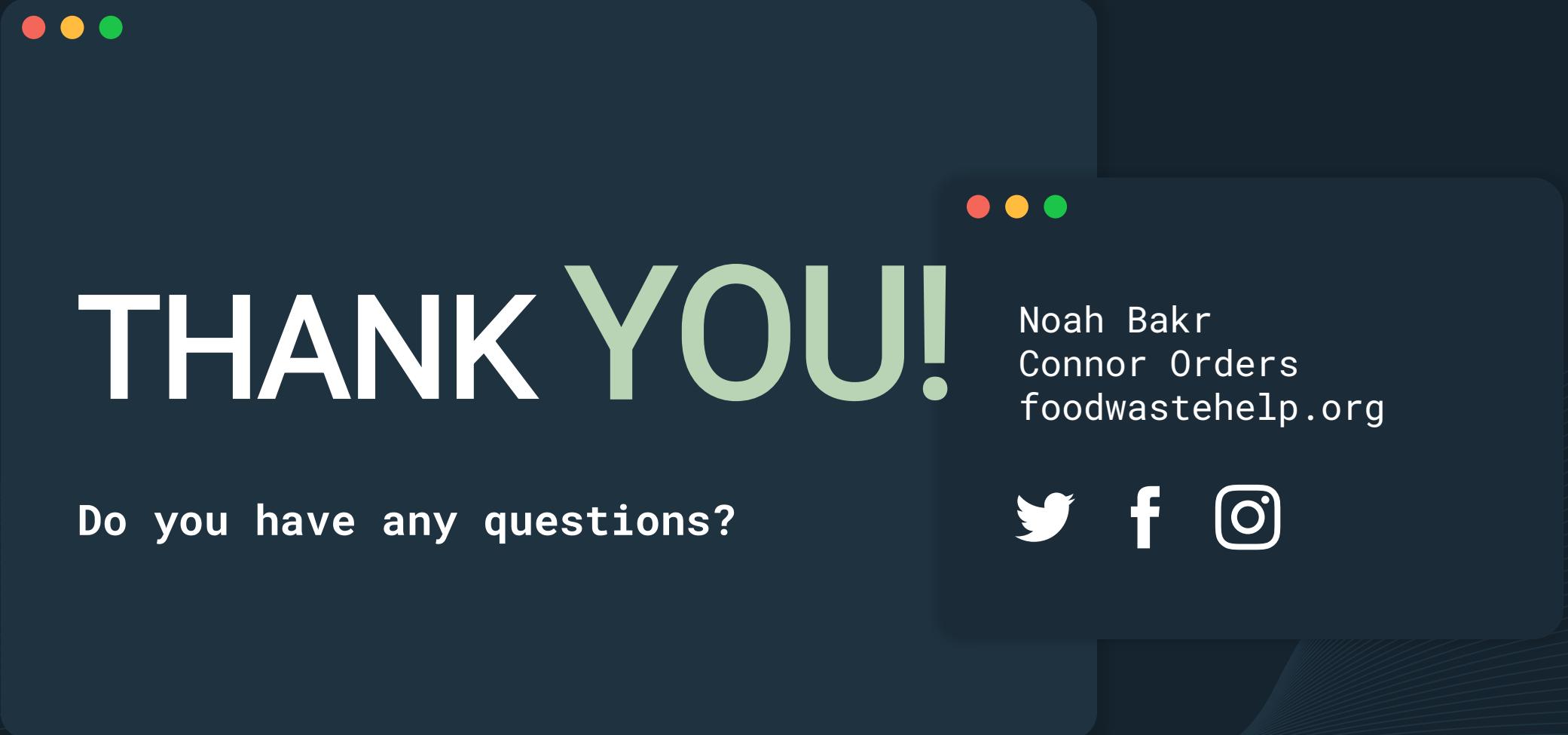
01 RUN-THROUGH FIRST SCENARIO

<p> The scenario one task is to locate the Average Food Loss/Waste percentages from Australia regarding Commodities between 2010 and 2020 with their responsible Activity </p>



02 RUN_THROUGH SECOND SCENARIO

<p> The scenario two task is to locate the 10 most similar countries to Australia in 2013 regarding the Absolute Values of each country's Food Loss/Waste Percentages </p>



THANK YOU!

Do you have any questions?

Noah Bakr
Connor Orders
foodwastehelp.org





CREDITS.

Presentation Template: [SlidesMania](#)

Fonts used in this presentation: Roboto Mono and Roboto Bold