

Control Alt Defeat

Deliverable 1

Deliverable 1 08/03/2019

About Hare

The ideas behind Hare is to enable general consumes to get more information about packaged good ingredient's.

We aim to allow users to go overseas, and still be able to make informed choices on the types of products they consume, by being able to pass images to our application, and having it do the rest of the work.

Links

Website demonstration: http://m.senghare.xyz:8080

GitHub repository: https://github.com/unsw-se2021/HARE

Group Members

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Notes

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Problem Statements



01

There is no immediate, and accessible way to find out about ingredients in a product while or after shopping.

06

It may be difficult to determine if a product allergens or substances they might not be able to consume if product packaging is not clear.

02

Consumers cannot quickly verify the health benefits implications of certain ingredients included in a product while shopping easily.

07

Finding synonyms for ingredients' names on product packaging is not intuitive and easy while shopping or reviewing items.

03

Consumers must manually type ingredients on product packaging to search for information about them online, repeating for each other substance.

80

There is no way of categorising and sorting ingredients in packaged products automatically so that consumers can intuitively review what they are purchasing.

04

There is not an easy way to compare the types of ingredients in two packaged products without manual entry and comparison.

09

When searching for ingredient/substance information online, the quality and type of information is not always relevant or reliable when needed.

05

Travellers or consumers shopping for packaged products in another language don't have an easy way to translate the ingredients list.

Features & Requirements



To address the scope of our application, and to tackle the problems stated we can list the number of direct functional requirements we may need for our applications.

These requirements can be translated directly in to the features that are present in our User Stores, and they are a useful reference to how the group interpreted what our application should do.

REQ 01

User must be able to take picture of packaged good and obtain a list of ingredients

REQ 02

User must be able to take pictures of foreign goods, or packaged goods in a foreign language, and obtain an ingredients list in English.

REQ 03

User must be able to obtain descriptions and brief overviews of the ingredients in a list from a packaged product.

REQ 04

Ingredients obtained from packaged goods must be categorised such that a user is able to infer more information about how they are used, or their purpose in the product.

REQ 05

Users must be able to filter categories of ingredients for highlighting

REQ 06

Users must be able to highlight categories or certain ingredients in packaged products when obtaining the ingredients list.

REQ 07

Users must be able to save ingredients lists from a packaged product somewhere for later viewing or comparisons.

REQ 08

Users must be able to compare packaged products' ingredients lists'.

REQ 09

Users must be able to save and load their preferences/filters, highlighting and ingredient lists.

REQ 10

Users must be able to infer serious health implications that may result from normal consumption of a listed ingredient.

REQ 11

Users must be able to search for allergens or ingredients that may have a specific health implication for them.

REQ 12

If a user doesn't want to save preferences and product profiles, they can still use the OCR and ingredient search features of the application.

User Stories & Features



User stories allow developers to group acceptance criteria into logical blocks, motivated by the customer's high level requirements, which directly tie the behaviour of the system into the behaviour desired by the users. This makes the usability of the system the highest priority in development.

They also allow for the assignment of priorities and story points, two essential components for the Agile development process. Priorities allow developers to effectively make iterative prototypes as required by Agile, and story points allow developers to make progressively more accurate estimations for when the project will be complete.

US-1

Feature: Upload picture of packaging (REQ1, REQ12) **As a** Guest

So that I can find information about ingredients in the product

I want to upload a picture of the ingredients on a product

Scenario: Take a picture, or upload an image of an ingredients list to receive information about each ingredient

GIVEN: I am on the default landing page

AND: I have not logged in

WHEN: I click the scan image icon

THEN: I am on the upload page with camera preview **WHEN:** I take a picture of the product ingredients

AND: I click submit

THEN: I see a page with details about the ingredients

in the picture

US-2

Feature: Scan packaged item with Camera

(REQ2, REQ11) As a Member

So that I can view categorised information about the usage or purpose of ingredients in a product.

Scenario: Take a picture of an ingredients list to

receive information about each ingredient

GIVEN: I am on the default landing page

AND: I am logged in

WHEN: I click the scan image icon

THEN: I should be on the upload page with a camera

preview

WHEN: I take a picture of the product ingredient

details

AND: I click submit

THEN: I see a page with details about the ingredients

in the picture

US-4

Feature: Log Out (REQ13)

As a Member

So that I can return to the default landing page of

the web app.

I want to log out of the app

Scenario: Log Out

GIVEN: I am on any page within the web app

AND: I am logged in

WHEN: I click the 'Logout' button

THEN: I am taken to the default landing page and

am not longer logged in

US-3

Feature: Log In (REQ13)

As a Member

So that I can save my previous scans, enable ingredient highlighting, and compare multiple products.

Scenario: Log In

GIVEN: I am on any page within the web app

AND: I am not logged in

WHEN: I click the Log In' button THEN: I should be on a Login page WHEN: I correctly enter my credentials

THEN: I should be on the user preferences page,

logged in

US-5

Feature: Select pre-set highlighting preferences for

ingredients (REQ4, REQ6) As a Member

So that I can easily identify ingredients of common preferences

I want to choose a pre-set to highlight these ingredi-

ents

Scenario: Select a pre-set in my ingredients preferenc-

GIVEN: I am logged in

AND: I am on the user settings page

WHEN: I scroll to 'Highlighting Preferences'

AND: click on any of the sample preference settings THEN: Future ingredient details will display selected

ingredients

with custom colour using a pre-set

US-6

Feature: Define custom highlighting rules for viewing ingredient (REQ5, REQ9)
As a Member

So that I can easily identify ingredients

I want to create a pre-set to highlight chosen ingredients or ingredient categories

Scenario: Create a highlighting rule set in my preferences

GIVEN: I am logged in

AND: I am on the user settings page WHEN: I scroll to 'Highlighting Preferences'

AND: click 'Customise'

WHEN: I choose my ingredient and colour

THEN: Future ingredient details will display selected

ingredients

US-8

Feature: Save ingredient lists for later viewing (REQ7) As a Member

So that I can view the ingredients of saved items easily

I want to have easy access to frequently bought products

Scenario: I want to check the ingredients of an item I've previously scanned

GIVEN: I am logged in

AND: I am on the user homepage

THEN: I should see a list of previously scanned items AND: I have previously saved the ingredients of the

item

WHEN: I click on my saved item list

THEN: I see the ingredients of item in the list I click on

US-7

Feature: Compare the ingredients of two packaged items (REQ8)
As a Member

So that I can make a well-informed decision about which product to buy

I want to obtain a side-by-side comparison of the ingredients list of two chosen products

Scenario: Chose two products to receive a detailed description and an ingredients list of both products for comparison

GIVEN: I am logged in

AND: I am on the product page form 'Saved products' AND: I have scanned, then saved, at least two items

WHEN: I click the "compare" button

THEN: A page appears with all the items I have saved

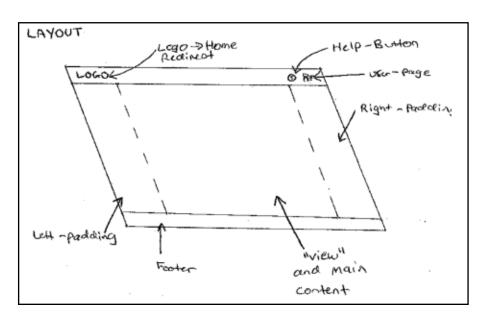
WHEN: I select two items from the modal

THEN: I see a page with a side-by-side comparison of

the two items.

Low Fidelity User Interface

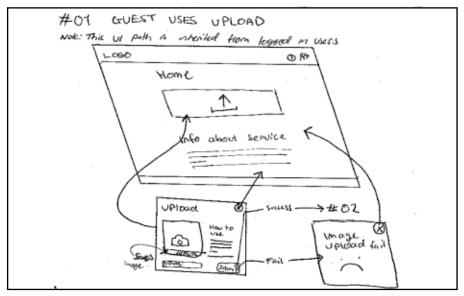




General Layout

To keep the user interface consistent, some persistent elements have been chosen so that the user has a frame of reference at all times.

This includes the Navigation Bar, Footer, Logo, and somewhere to get assistance with the application.



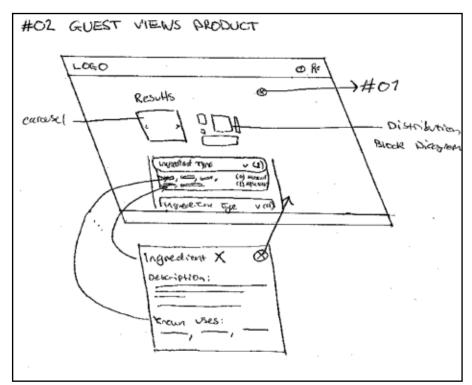
01 - Guest UI Experience

Not all users of our website are expected to log in, but the user interfaces encountered by the guest aren't necessarily different from normal users.

Some features are not available, but this particular user interface path is the same with regular users as well.

Some featured pages are:

- The Home page The Upload page
- The "Bad image" page

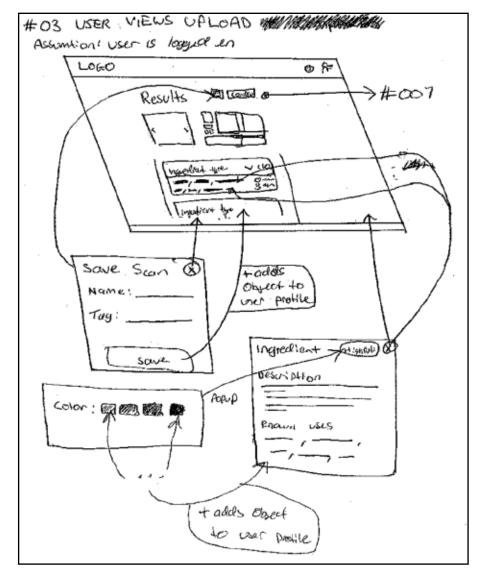


02 - Guest results view

When a guest has finished uploading an image successfully, they can visit a page of useful results acquired from using an OCR on the pictures upload-

Some pages featured here are:

- The "product" results page
- A pop-up page for a detailed view for a particular ingredient.



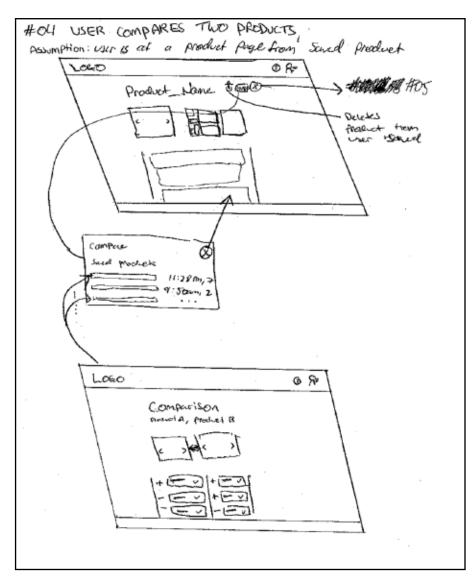
03 - User views results of scan

The UI for a user after they have run a scan is slightly different. They have access to saving the results from a scan, as well as the ability to add ingredients in that scan to their highlights preferences.

They also have the ability to bring up a comparison page, with another product they've scanned in the past.

Some pages featured here are:

- The "product" results page, but for members
- The "Save Scan" pop-upThe detailed ingredients pop-up
- The "Set ingredient highlighting" pop-up for clicking on a specific ingredi-

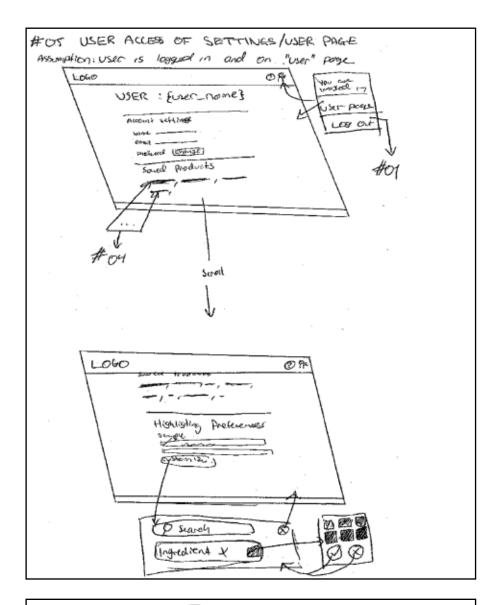


04 - User compares two products

When a user logs in, and saves an item, they gain the ability to compare a product's packaging that they just scanned to one of the scans they have previously. This draws up a side by side comparison of the types and number of ingredients by category for both.

Some pages featured here are:

- The "product" results page, but for members
- A pop-up window for which saved scan the user would like to compare to, after clicking "compare"
- A results page of comparison between the two products



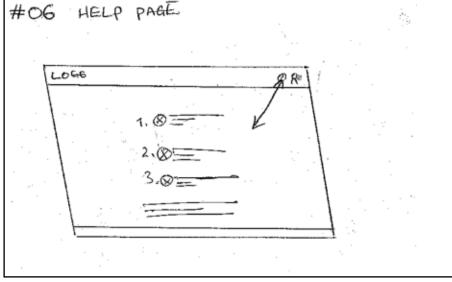
05 - User changes their settings

Users who have logged in have the ability to modify their settings.

In Account settings, they can change the details they log in with, in Saved Products they can see their previous scans and results, and in Highlighting Preferences they can change the preferences they have for how ingredients are highlighted in each scan.

Some pages featured here are:

- User preferences pageSelect custom highlighting pop-up



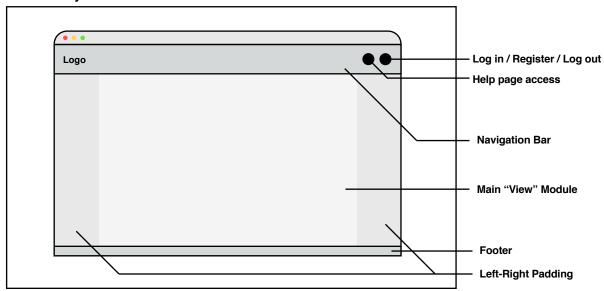
06 - User clicks the "Help" button

It's expected that users might want some more information about how to use the web app. Clicking the question mark on the navbar redirects them to

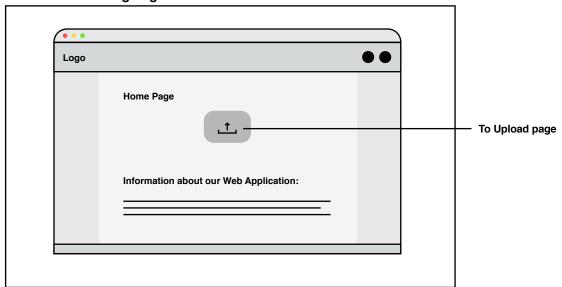
High Fidelity User Interface



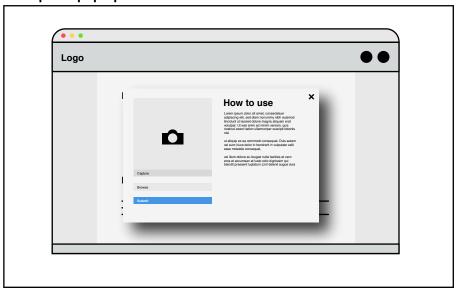
General Layout



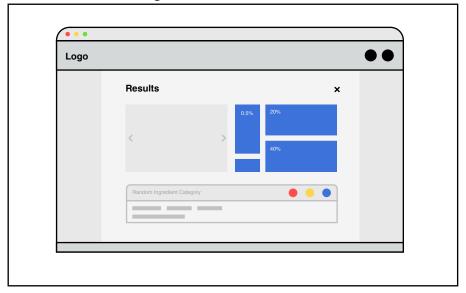
01 - Default Landing Page



02 - Upload pop-up



03 - Product Results Page



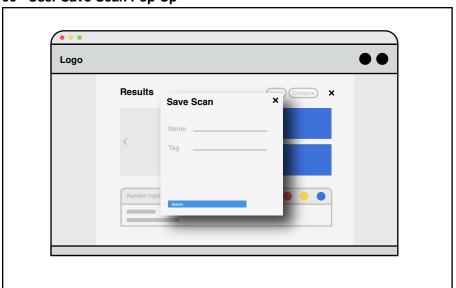
04 - Ingredient Details Pop-up



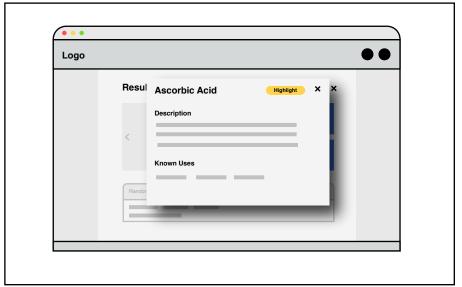
05 - User Product Results



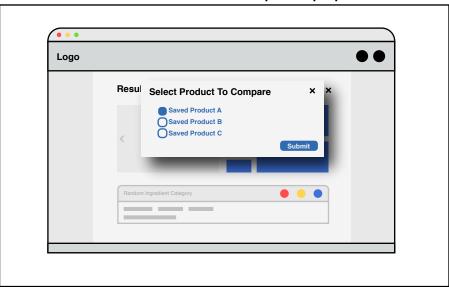
06 - User Save-Scan Pop-Up



07 - User Save Highlight From Ingredient Pop-Up



08 - User Selects Second Product For Compare Pop-Up



09 - User compares two products

