



# UX Design Summative Assessment

UX DESIGN FOR DIGITAL ORDERING

# Our Team



**Jessica Silveira**  
UX Designer

**Maira Silva**  
UX Designer



**Monica Cabral**  
UX Designer



# Project Overview

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Verve Cafe is one the New Zealand's traditional cafes and it is situated in a busy business district. They would like to improve customer engagement and sales of some of their more unique offerings by providing table ordering via **tablet** and **mobile** devices.

Our solution allows this problem to be solved using good user experience practices with mobile-first methodology. Our product took into account the Treaty of Waitangi in the design of features.

We worked on this real client project as part of our Diploma in Web and UX Design, however, we decided to call our project **Mōrena** in order to preserve integrity and ethics.



# Our Roles

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As a team, we conducted together:

- Competitor Analysis
- Customer research
- Built User Flow
- Wireframes
- Prototypes
- Mobile-first website coding
- Test and Validation





# Design Process

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We used a 6D UX Process model to come at our proposed solution. The stages are as followed:

1. Discover
2. Define
3. Design
4. Develop
5. Deploy
6. Drive

## Design Toolkit



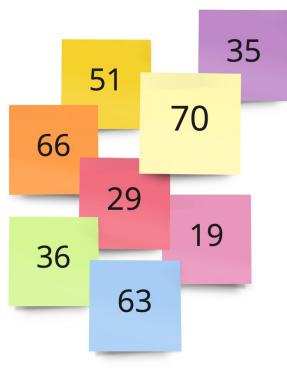
# Customer Research

Design happens in context. To understand our problem several researches were carried out to understand what are the positives and negatives points of the current business. We conducted interviews with 8 people and from these interviews we got the following results:

Duncan Breendon	51	Sue Beasley	66	Mihael Boel	29	Lina Hini	35
Information Architect	Wellington	Lawyer	Wellington	Software Developer	He does not like to wait	Manager	She runs meetings with one coworker once a week
only 30 min break between his shifts	Go to the coffee shop every day, around 9:30 am or 12 pm	Holds meetings with colleagues and clients at least 3x a week at the cafe shop	Takes to long to find information about gluten free food on the menu	Grab a takeaway around lunch time 3 times a week	10/10 tech rating	Queenstown	She likes the informal environment of cafe shop
I would like a way to avoid queues during rush time	6/10 tech rating	Wellington	Wellington	As a regular customer, he would like a loyalty card if there was one	Interested in 'Deals of the day'	7/10 tech rating	

Thomas Smith	70	Jenny	63	Alice Rewi	19	Kiri Te Wiata	36
Retired	Auck	Retired	Wellington	student	Maori	Lawyer	Wellington NZ
Goes to the Cafe with his yours grandchildren	Using apps that make your day to day easier	she doesn't like technology	Goes to the cafe at least 2x per week	Otaki, NZ	Take the train every day to go to college in Wellington	Maori	Goes to the Cafe every day at 9 am with two other coworkers.
Missing a tech education	7/10 tech rating	5/10		Go to the coffee shop 2x a week, love a mocha with afghans for breakfast	Don't have much patience when someone gets your order wrong	Hates wait to long to get his order	7/10 tech rating

From these results we can understand with *whom* are we empathizing



- They are professionals between 29 - 60 years old who go to the Cafe at least 2x a week

Another condition that we researched was the digital capacity of the participants. On a rating of 0-10 how familiar with technology they are.



In addition, with our research we understand how the clients *feel*



Another important aspect would be to consider what they *need*



From the mix of quantitative and qualitative customer research and the mix of attitudinal and behavioral approaches, we got the clearest view of the design problem.

Based on the client's research, our next stage was the construction of a user persona, presenting goals and characteristics, and the needs of the case problem

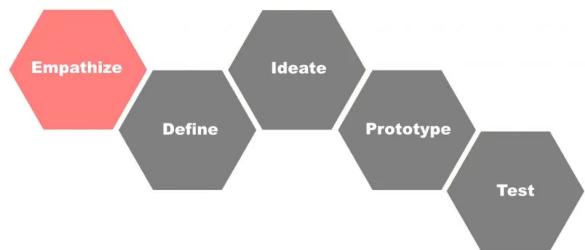
# User Persona

Deep understanding of a target audience is fundamental to creating exceptional products. Through interviews and research, we built empathy with the end user and this helped us to define and refine the Persona who will be our primary focus and critical for the design process. The Cafe is based in the business district of Wellington. The majority of its customers are people travelling to work and offices within the city and the most popular hours are through the morning rush.

This Persona represents the needs of a larger group of users which will guide us to shape the product strategy and make possible to design a product that will satisfy users needs and therefore be successful.

## Who are we designing for?

Let us introduce you to:



## Horouta Thomas

My work, my life

### Daily activity

Works for a large firm in Wellington. In the day to day, he delegates tasks to staff, digitally sign documents, meet with and/or sign up clients, answer questions from conveyancers and a lot more.

### About

**Age:** 40  
**Family:** Married  
**Job:** Lawyer  
**Location:** Wellington

**"Every minute of my day counts! My daily schedule is full but I can't live without my short break"**

### Goals

- > Using apps that makes your day to day easier
- > Interested on "Special Meal of the day"
- > Be able to pre-order whenever possible

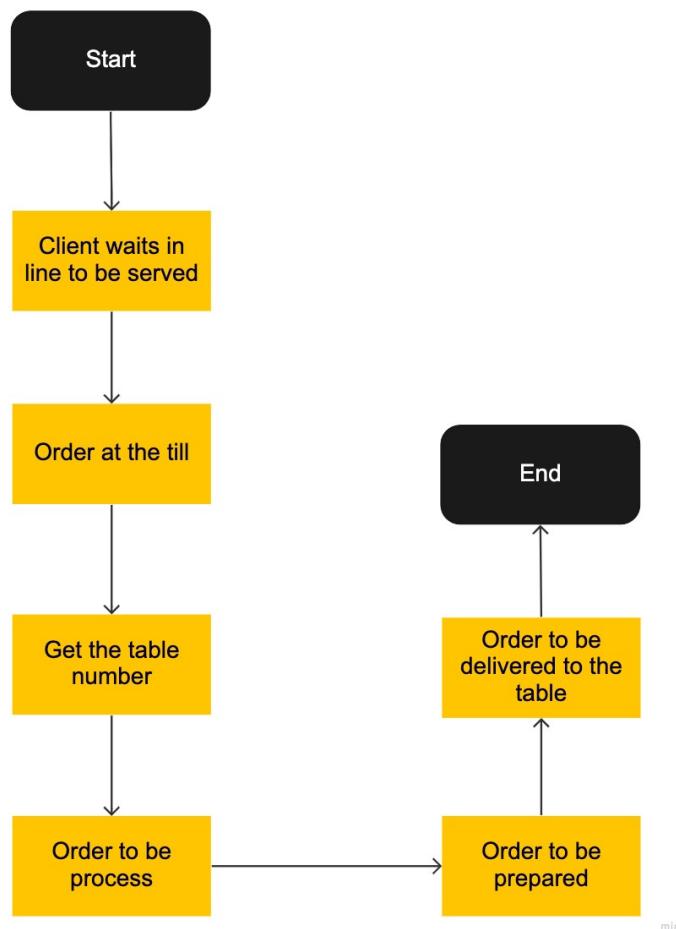
### Frustrations

- > Not very patient to wait
- > Menu and type of food should be quick and easy to find
- > Lack of time

# Observation Research

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Another research we did was the observation research. Our core goal with the observation research is to understand the people who coexist in this problem space, the environments in which they have, the distractions they might face, and the motivators that keep them running. With this research we learned how the current service works.



In the current model, we noticed that people take an average of 5 minutes in lines to be served, during rush time.

Many people give up staying at the restaurant because they don't want to wait. This causes stress on the staff to ease the nerves of people who are impatient, and an extra effort to get things done quickly so that no customer waits too long.

# Competitor Analysis

## Starbucks

The Starbucks ordering app is easy and simple. The home page shows featured products but not deals. The ordering process is consistent which makes easy to navigate, specially on a mobile. The add-ons have a good visual design, however, the horizontal scrolling can be confusing sometimes. The user is aware of total cost the from start to the end which is positive.

The image displays two screenshots of the Starbucks mobile ordering app. The left screenshot shows the 'Review Order' screen at 7:16, displaying two items: a Latte and a Cappuccino, both at \$12.00. The right screenshot shows the 'Hot Coffees' customization screen at 7:13, where users can choose size (Short, Tall, Grande), espresso options (Signature Roast, Blonde Roast, Promo Roast), shot options (1, 2, 3, or 4 shots), milk (Whole Milk, Trim Milk, Pouring Cream), temperature (Standard Temperature, Less Hot, Extra Hot), and foam (No Foam, Standard, Add to order · \$5.70). A green button for 'Add to order · \$5.70' is highlighted.

7:16

Review Order

ORDER ITEMS

+ ADD ITEMS

Latte \$6.30

Drink size: Tall (354ml)  
Espresso Options: Signature Roast  
Shot Options: 2 Shot  
Milk: Pouring Cream  
Temperature: Standard Temperature  
Foam: Standard Foam  
Size Change: Upsize

Capuccino \$5.70

Drink size: Tall (354ml)  
Espresso Options: Signature Roast  
Shot Options: 2 Shot  
Milk: Whole Milk  
Temperature: Standard Temperature  
Foam: Standard Foam  
Size Change: Upsize

Order Total: \$12.00

2 item(s) \$12.00 >

7:13

Hot Coffees

Short 237ml

Tall 354ml

Grande 473ml

Espresso Options

Signature Roast

Blonde Roast

Promo Roast

Shot Options

1 Shot(s)

2 Shot(s)

3 Shot(s)

4 Shot(s)

Milk

Whole Milk

Trim Milk

Pouring Cream

Temperature

Standard Temperature

Less Hot

Extra Hot

Foam

No Foam

Standard

Add to order · \$5.70

ORDER & PICK UP

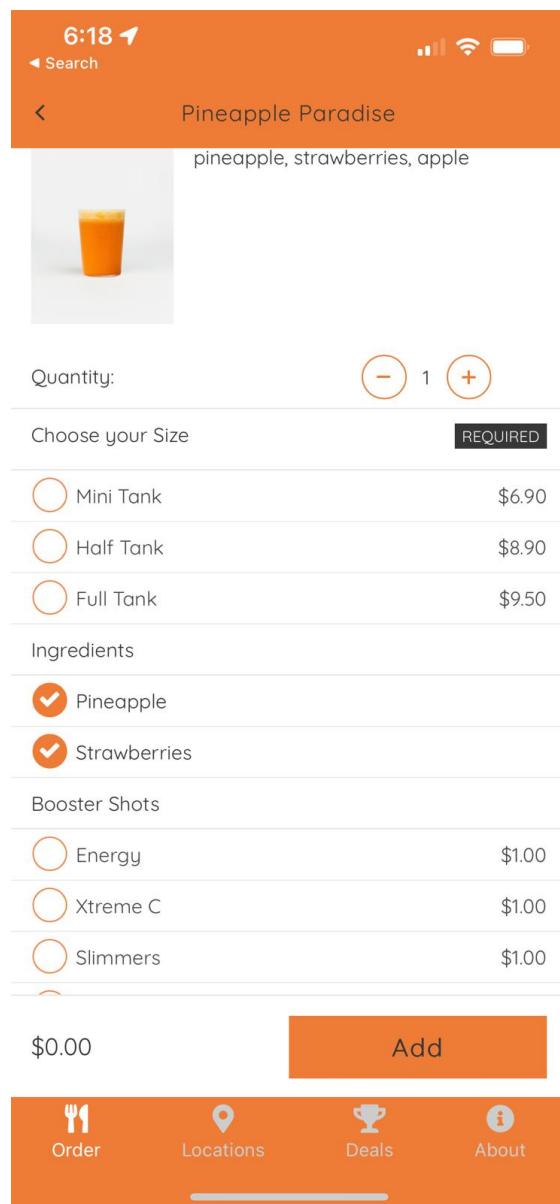
Starbucks

0

# Competitor Analysis

## Tank Juice

Tank ordering process is also user friendly. Overall the order section is easy and "tick" buttons brings a sense of functionality. It is easy to input the add-ons the user desired. All the times the users can go back to the previous page during the process or change sections on the navigation menu on the bottom.



# What we propose

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Our proposal for this problem is the development of a **responsive** application using the **mobile-first** methodology. In this methodology, the design is made thinking about mobile devices first and then the other devices. In other words, an application that has a design that promotes the best user experience on mobile devices and also on any other type of device. In this way, we meet the main requirement of the business by providing table ordering via **tablet** and **mobile** devices.

In addition, promote the following features:

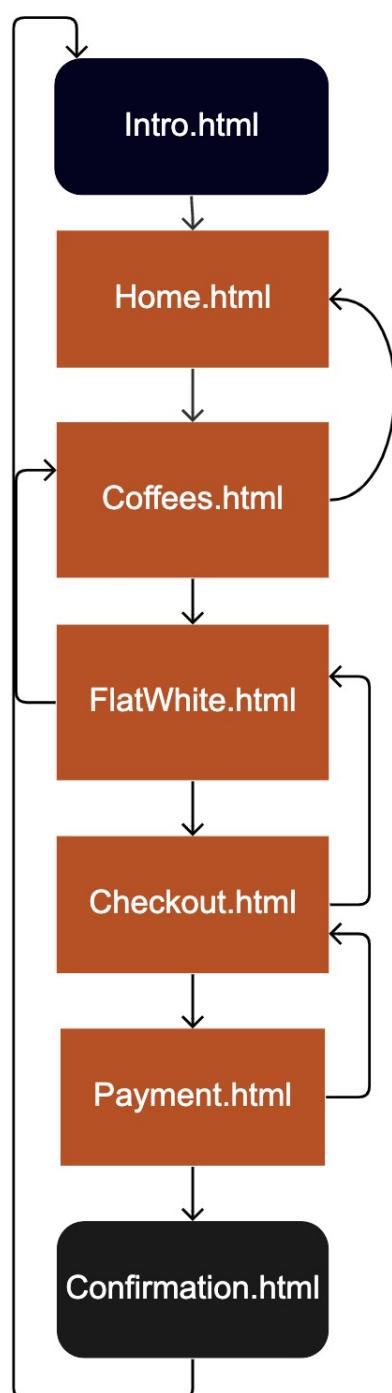
- Make an order
- See the menu
- Payment
- Make suggestions
- View Deals
- See the progress of the order



# User Flow

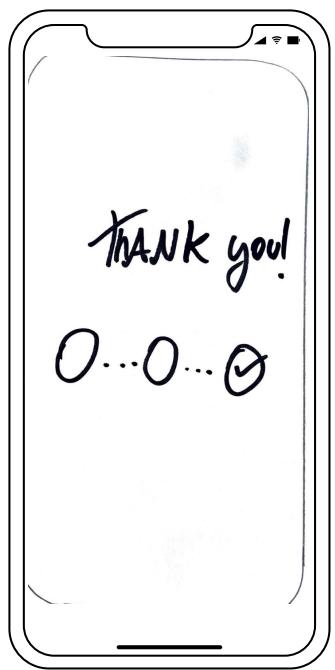
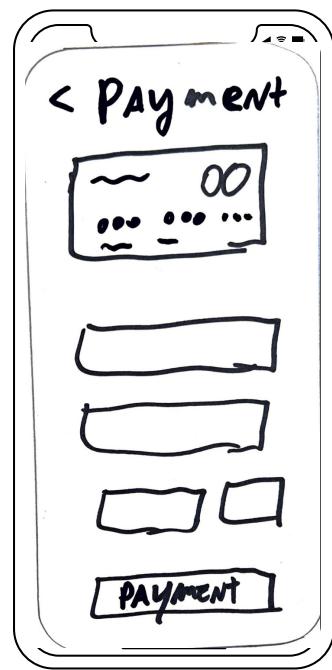
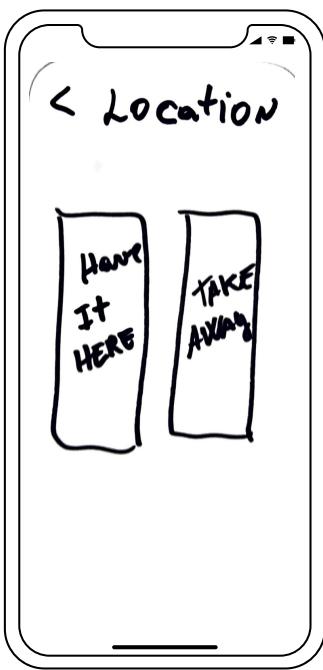
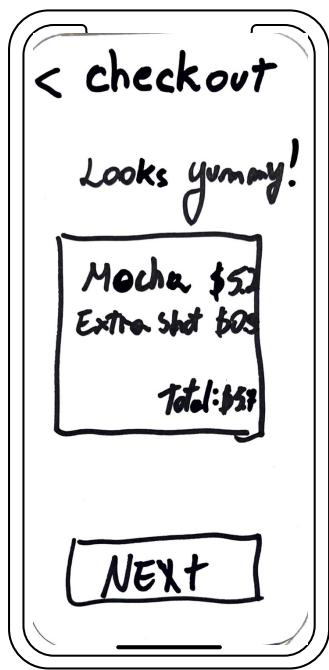
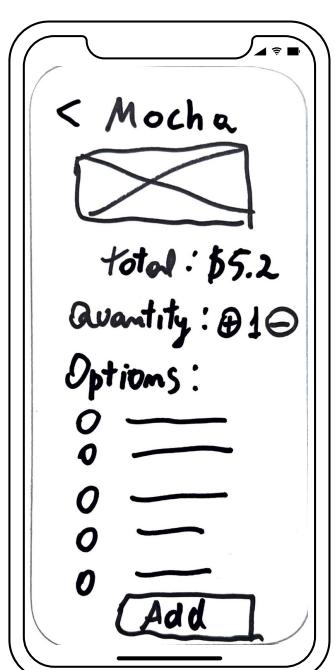
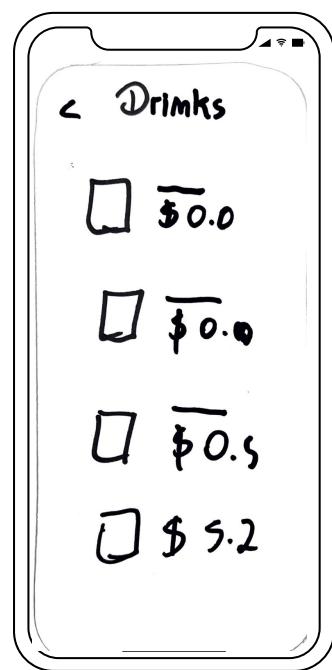
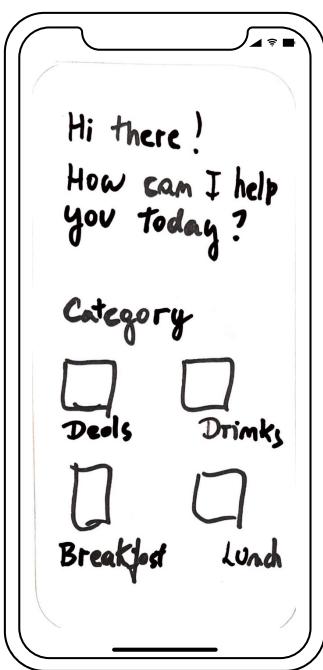
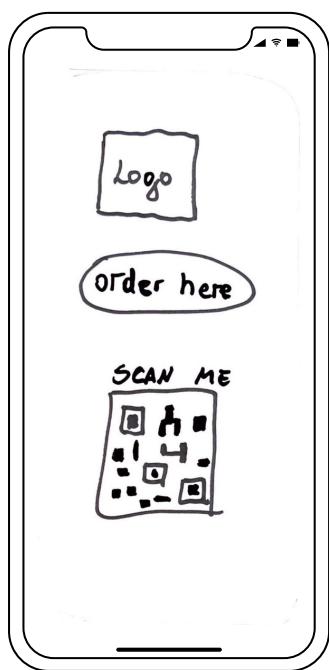
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Defining a user flow is the first step to develop our solution. After meeting with the manager of the establishment, we were informed that the most popular product is flat white. For this reason, we decided to build our solution from the following user flow:



# Sketch

From the user flow, the next steps were for each team member to do a lo-fi sketch applying the **Crazy 8's** technique. We gathered the best ideas and we had this result:

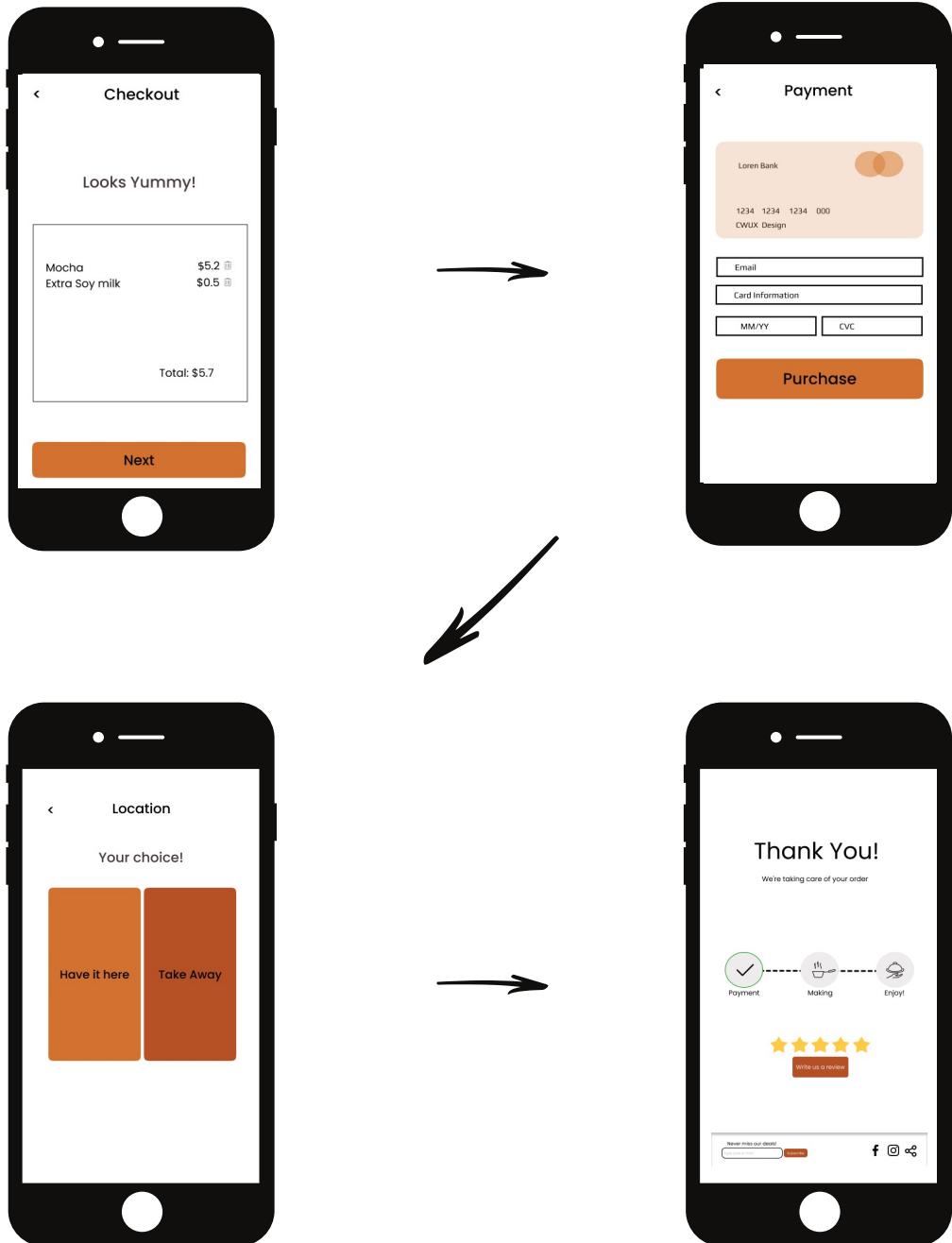


# Mobile Lo-Fi Wireframing

After sketching our wireframes, we moved to Figma and created low-fidelity wireframes.

Following the user flow, we focuses in the '**'happy journey'** to develop in our solution.





# The Design System

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## TYPOGRAPHY

### **Headline 1**

b h1 Poppins 36px

### **Headline 1**

h1 Poppins 36px

### **Headline 2**

b h2 Poppins 32px

### **Headline 2**

h2 Poppins 32px

### **Headline 3**

b h3 Poppins 28px

### **Headline 3**

h3 Poppins 28px

### **Headline 4**

b h4 Poppins 24px

### **Headline 4**

h4 Poppins 24px

#### **Paragraph**

b p Poppins 16px

#### **Paragraph**

p Poppins 16px

## COLOR



#733A26



#BF5B21



#D97C2B



#F2BF5E



#0B0B0D

## BUTTONS

**Primary**

Hover

**Primary**

Active

**Primary**

Disabled

## FORMS

LABEL

Place here your legend

Input Quantity

+

1

-

# Design Ethics

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## Implications of the Treaty Waitangi

Design ethics impact our teams, clients, customers and society.

The Treaty of Waitangi is the only New Zealand treaty that was signed between the British Crown and Maori chiefs as an alliance in the year 1840.

The Māori language is considered a national taonga (treasure) and is undergoing a revival.

Kia Ora

Inu

Kai

Kawhe

Tii

Ka Pai

These are some of the words that we incorporated in our project in order to support Te Reo Māori. Also, as in the name itself "Morena".

The Treaty of Waitangi is very important as it helps to build relation between Maori and other New Zealanders. The word Whanaungatanga (participation) reflects very well our intention to include Maori words in our project.

By doing so, we are protecting the language and making it known to everyone who uses our app and visits our website.

## Copyrights

- Te Aka (Māori Dictionary) was used as it is good resource of words in Maori.
- We also had great help from Ebony who is a Maori teacher.
- All images are from [www.unsplash.com](http://www.unsplash.com) and [www.stock.adobe.com](http://www.stock.adobe.com)
- The icons are from [www.fontawesome.com](http://www.fontawesome.com).

# The Prototype

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We have combined all the elements shown throughout the design process to create what we feel is a warm, functional, fun and approachable app.



# Mobile

The application interface for MORENA is displayed across 12 screens:

- Home Screen:** Shows the MORENA logo with a sunset icon, an orange "Order here | kupu" button, and a QR code.
- Our Menu:** Displays a grid of food and drink categories: Bagel + Coffee, Porridge + Juice, Falafel + Fries, Hot Drinks (ONLY \$8), Cold Drinks (ONLY \$12), and Snacks (ONLY \$1).
- Hot Drinks:** Shows images of Cofees (kawhe) and Teas (Tii), along with Winter Warmers and Hot Chocolate (Tiakarete Wera).
- Coffees:** Lists Short Black, Long Black, Americano, Flat White, and Latte.
- Flat White:** Details for a Flat White, showing size options (Large \$5.2, Regular \$4.7), milk options (Standard \$0.0, Trim \$0.0, Soy \$0.8, Almond \$0.8), and a total of \$4.7. An "Add to cart" button is present.
- Cold Drinks:** Categories include Shakes, Iced, Smoothies, and Soft Drinks.
- Soft Drinks:** Options include Coke (\$4.5), Sprite (\$4.5), Fanta (\$4.5), and Pepsi (\$4.5). An "Add" button is at the bottom.
- Snacks:** Options include Croissant (\$4.5), Panini (\$9.5), Turkish (\$9.5), and Carrot Cake (\$9.5). An "Add" button is at the bottom.
- Snack:** Details for a Donut (Doughnut), quantity selection, note input, and a total of \$4.5. An "ADD" button is at the bottom.
- Checkout:** Order summary for a Flat White, Donut (Doughnut), and a Total of \$13.7. Includes fields for email, newsletter opt-in, and payment buttons for "Checkout" and "Purchase".
- Payment:** Payment screen for Loren Bank, showing card details (1234 1234 1234 000, CVV 123, Expire Date 01/33), and a note field.
- Ka Pai and Thank you!**: Confirmation screen with a message: "We're taking care of your order". It shows a timeline: Paid (green checkmark), Preparing (dashed line), and Ready! (checkmark icon).
- Feedback:** A satisfaction survey with three smiley face icons: Sweet As!, Yeah Nah!, and Just Bad.

# Tablet



MŌRENA

Order here | kupu

or scan me! 

### Our Menu

Bogel + Coffee ONLY '8  
Porridge + Juice ONLY '12  
Falafel + Fries ONLY '15

Kia ora!  
What goodie would you like today?

Hot Drinks | Inu  
Cold Drinks | Inu

Brunch | Kai  
Snacks | Kai

### Hot Drinks

Coffees kawhe  
Teas Tīi  
Winter Warmers  
Hot Chocolate Tiakarete Wera

### Coffees

Short Block | Long Block  
Americano | Flat White  
Latte | Cappuccino  
Vienna | Mocha

### Flat White



Size  
Large \$ 5.2 | Regular \$ 4.7  
Milk  
Standard \$ 0.0 | Trim \$ 0.0 | Soy \$ 0.8 | Almond \$ 0.8 | Oat \$ 0.8

Add to card

### Checkout

Flat White \$4.7  
Extras Standard Milk \$ 0.0  
Edit  
Donut \$4.5  
Extras \$ 0.0  
Edit  
Your email  
Keep me up to date on news and exclusive offers  
Total: \$ 9.2  
Payment

### Location

Take Away  
Have it Here

### Payment

Loren Bank  
1234 1234 1234 000  
CWUX Design

Card number \*\*\*\* \* 1121  
Expire Date 01/33  
Cardholder's Name XYZ  
CVV \*\*\*

Payment

### Ka Pai and Thank you!

We're taking care of your order

Paid | Preparing | Ready!

How was everything?  
Sweet As! | Yeah Nah | Just Bad

# Collaboration



Mōrena Cafe project has been developed in a group and the whole team worked together at every stage. We had meetings via MS teams to discuss the stages:

## Customer Journey

The screenshot shows a Microsoft Teams meeting interface. On the right, the 'Meeting chat' pane is open, displaying messages from team members. In the center, a Figma document titled 'cafe wux v1.0 - Figma' is displayed, showing a user flow diagram for a mobile application. The diagram starts with a decision diamond 'User using mobile to order', leading to either a 'Scan QR code' path or a 'Homepage' path. From 'Homepage', the flow continues through 'Products Page', 'Product', 'Checkout', another decision diamond 'Customer purchased?', and finally a 'Thank you page'. If 'Customer purchased?' is no, the flow ends at 'Exit'. The Figma interface also shows layers like 'Brief & user flow', 'Pages', and 'Style guide'.

## Style Guide

The screenshot shows a Microsoft Teams meeting interface. On the right, the 'Meeting chat' pane is open, displaying messages from team members. In the center, a Figma document titled 'cafe wux v1.0 - Figma' is displayed, showing a color palette with five color swatches labeled with their hex codes: #000000, #F2BFBF, #D9C7B8, #B5857E, and #733A26. The Figma interface shows layers like 'Brief & user flow', 'Pages', and 'Style guide'.

# Collaboration

## Wireframes

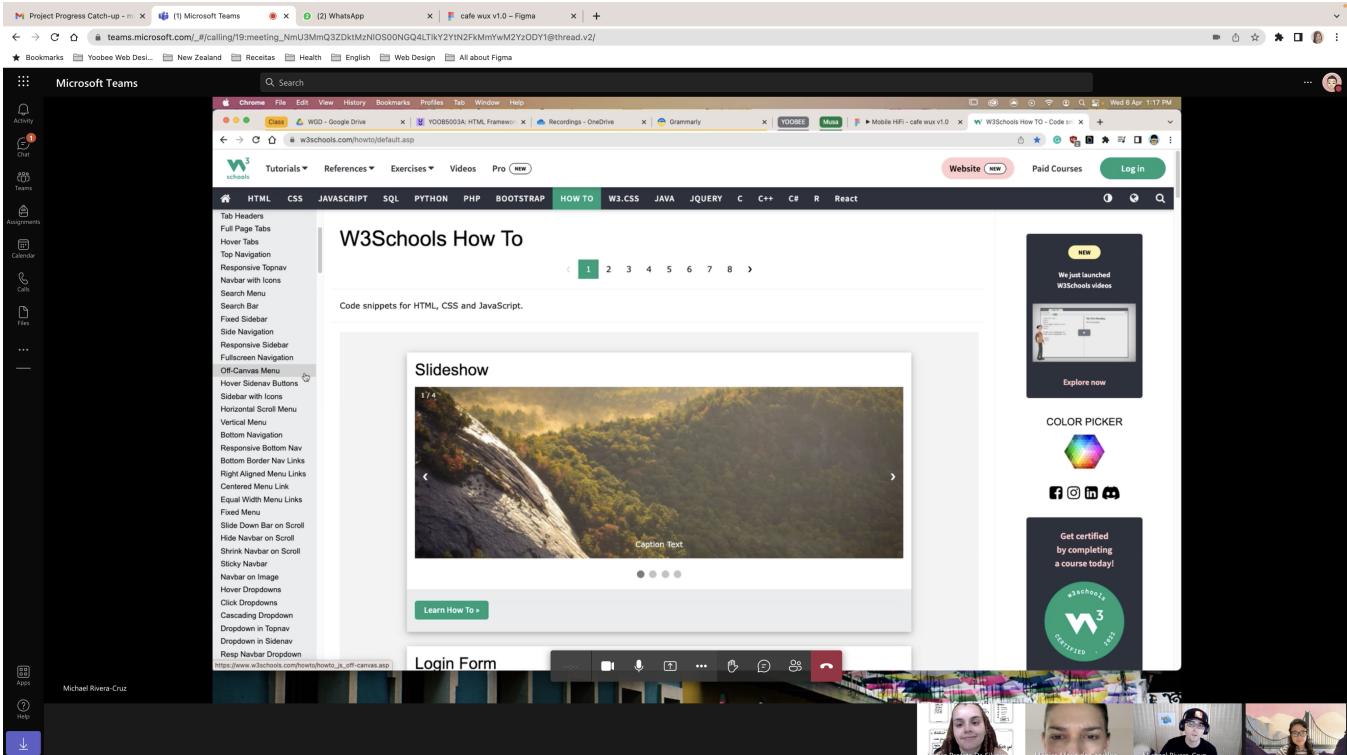
The screenshot shows a web browser window with three tabs at the top: 'Morena Cafe - Figma', 'cafe wux v1.0 - Figma', and 'WhatsApp'. Below the tabs, there are two video call windows. The left one shows a woman with glasses smiling. The right one shows a woman with long hair smiling. The main content area displays a Figma wireframe for a mobile application. The wireframe includes several screens: 'Welcome to', 'Hello there! How can I help you today?', 'List Products' (showing categories like Hot Drinks, Tea, and Coffee), 'Product' (showing a product card for 'Mocha'), 'Checkout' (showing a payment screen with a credit card icon), 'Dine location' (with options 'Have it here' and 'Take Away'), 'Payment' (with a payment method selection screen), and 'Confirmation' (with a 'Thank You!' message). On the left side of the Figma interface, there is a sidebar with various components and sections like 'Brief & user flow', 'Documentation', and 'Style guide'. On the right side, there is a color palette titled 'Color Styles' with numerous color swatches labeled with names such as 'CUX0 - Primary 0' through 'CUX0 - Secondary 4', 'CUX1 - Primary 1' through 'CUX1 - Secondary 4', and 'GRAY 100'.

## Coding

The screenshot shows a Microsoft Teams interface. On the left, there is a file explorer window displaying a project structure for a web application. The 'Product.html' file is selected, showing its code. The code includes imports for CSS and JavaScript, and defines a header area with a container, top bar, back icon, top title, and cart icon. It also includes a main area with an image product and a product name. On the right, there is a 'Meeting chat' window. The chat log shows messages from team members: Maira Lopes Da Silva joined the meeting, Maira Lopes Da Silva named the meeting to BR - UX Assessment, Jessica Profeta Da Silveira was invited to the meeting, Monica Cabral was invited to the meeting, and Monica Cabral invited herself. There are also messages from other team members like Jessica Profeta Da Silveira and Monica Cabral. The bottom of the screen shows a video call interface with three participants: Jessica Profeta Da Silveira, Jessica Profeta Da Silveira, and Monica Cabral. A message input field at the bottom right says 'Type a new message'.

# Collaboration and Feedback

## Catch up with Tutor



## Forum : A Place for Collaboration

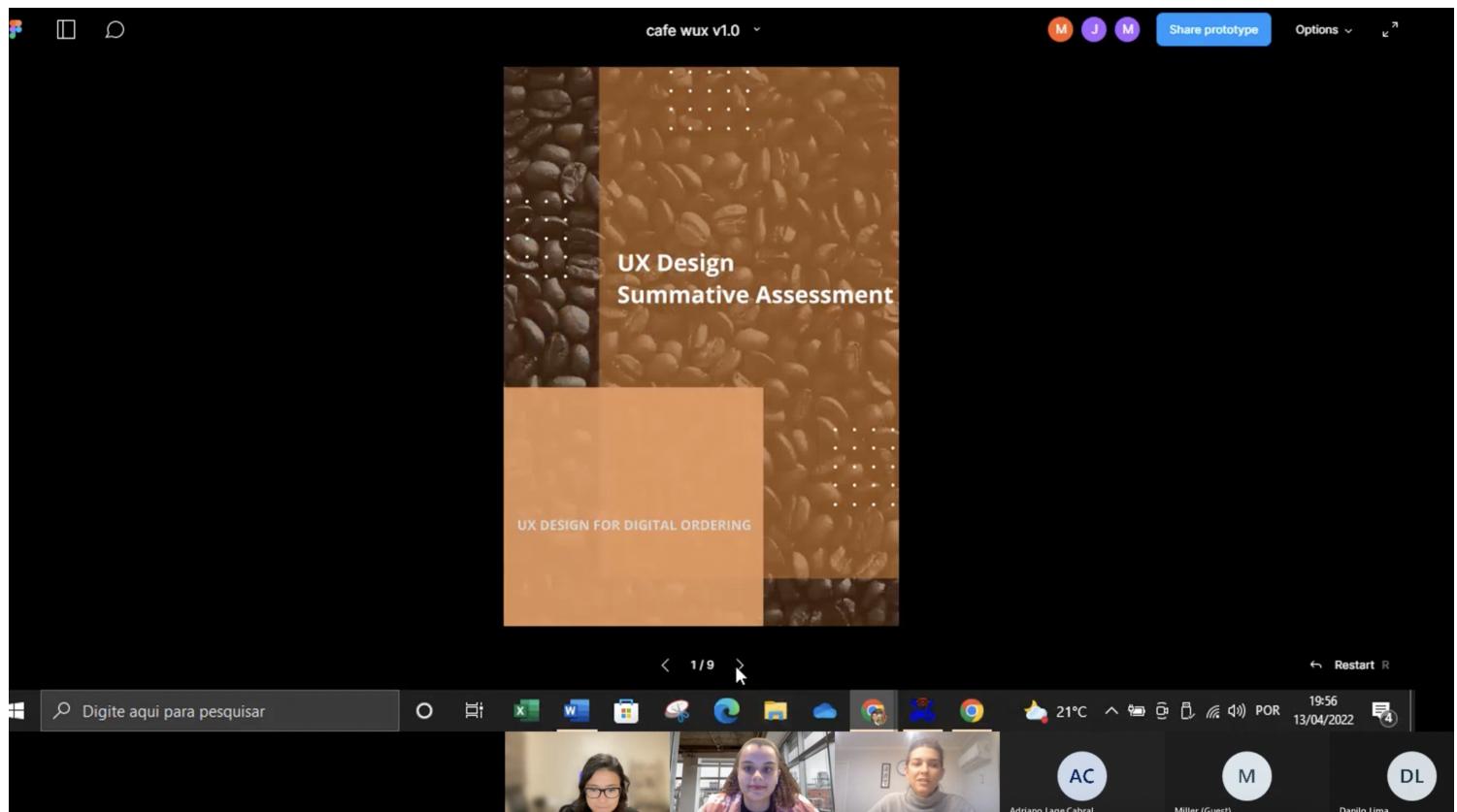
A screenshot of a forum discussion on uponline.education. The post shows a wireframe of a mobile application interface for an order confirmation page. The interface includes fields for quantity, price, total amount, payment method (Credit Card), and a progress bar indicating the order status. Below the wireframe, there are two comments. The first comment, by Anjileen Daji, says: "Great job on this! My suggestion is for the text on the drinks to be centered inside the orange box, rather than top-aligned. Also maybe try changing the light grey background on the menu items to a different colour, or removing this, as it doesn't really seem to match. The margin between the columns there is quite wide also, so this space could be reduced. Overall, it's a nice clean and simple design. I really like your order confirmation page! The smiley face icons for the rating is cool :)" The second comment, by Maira Lopes Da Silva, says: "Reply".

# Presentation



## Final project presentation to a group

We presented our completed project to a couple of friends and family.  
The full presentation can be watched here: [https://youtu.be/KQB\\_8381ocQ](https://youtu.be/KQB_8381ocQ)



# User Testing

User tests were performed on the prototype. We send the figma prototype link to some users and these were the results:

Participant Information	First Impressions	Use our App again?
P1 Daniel Student	Easy to navigate through  Home buttons [ < ] not working	YES
P2 Danilo Developer	Easy to use and easy to learn  Takeaway screen buttons very different the standard of the others	Yes
P3 Christian Art director	Very nice lo-fi wireframe  One thought, maybe change the text of "step 2" in the last screen to either "Brewing" (for coffee) or "Cooking" (for lunch). Small and tiny detail, I know, but it's also something that would make the app stand out a little	Yes
P4 Rico UX Designer	Radio button on flat white page has bad contrasts to read  I couldn't see the deals on the Home page  Some broken links	Yes
P5 Jenny Retired	Too many info  I can't make personalised order	No

From the obtained result we made some adjustments and went to the next phase: website development.

# The Website

```
$primary0: #6f4d44;
$primary1: #d37130;
$primary2: #b65126;
$primary3: #f0b75d;
$gray100: #d3d0d0;
$cwux-color: #fff;

$cwux-font: "Poppins", sans-serif;
$cwux-mobile-fontsize: 16px;
$cwux-tablet-fontsize: 32px;
$mobile-h1: 32px;
$mobile-h2: 24px;
$mobile-h3: 22px;
$mobile-h4: 18px;
$tablet-h1: 50px;
$tablet-h2: 42px;
$tablet-h3: 32px;
$tablet-h4: 24px;
```

In our solution, we used the building blocks of the Web :

- HTML
- CSS
- JavaScript

Regarding the styling itself, in our project we applied the tecnologies :

- **Sass** : Sass is a CSS pre-processor that reduces repetition of CSS and therefore saves time. To reach the website final result we used variables, nesting, @mixin.
- **OOCSS (Object Oriented CSS)**: It is a methodology that uses the concept of reusable classes. It has two main principles: Separate structure and skin and Separate container and content.

```
<header>
  <div class="container">
    <div class="top top-color">
      <a class="back icon" href="List-Hot-Drinks.html"></a>
      <div class="top-tittle">
        <h2>Coffees</h2>
      </div>
      <div class="cart icon"></div>
    </div>
  </div>
</header>
```

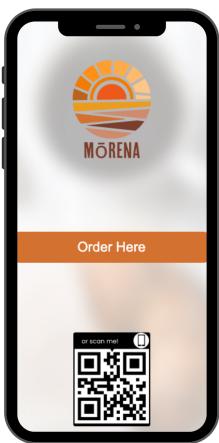


We use github to work together through the brunch methodology. A brunch was created for each page, and each member of our team was responsible for developing a feature. When the feature was finished we submitted the feature to tests and validations and then merged the page/ branch to the main branch in our github repository.

Live Demo: <https://main--astounding-donut-d04824.netlify.app/>

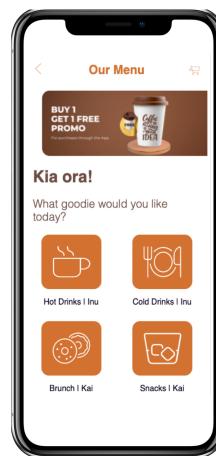
# The Website Pages

## 1. Intro.html



On this page the customer scans to be forwarded to the homepage with the table number or clicks on [order here] to be forwarded to the homepage

## 2. Home.html



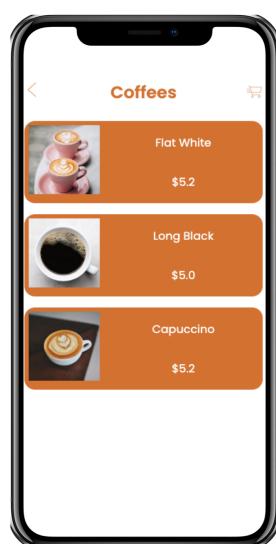
Banner with Deals

Menu selection. As this solution was based on the use case of our prototype, the only link created was for "Hot drinks."

## 3. List-Hot-Drinks.html



Following the Cafe menu that we propose the solution, for hot drinks we have 4 categories: Coffees, Teas, Hot Chocolate and Winter Warmers.

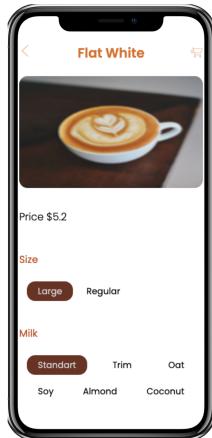


## 4. Coffees.html

List of selected products. In this especial use case, the list of cofeees is displayed.

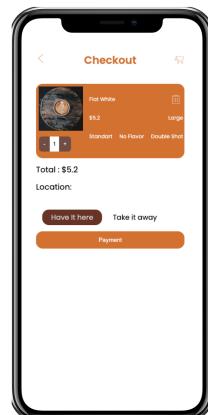
# The Website Pages

## 5. FlatWhite.html



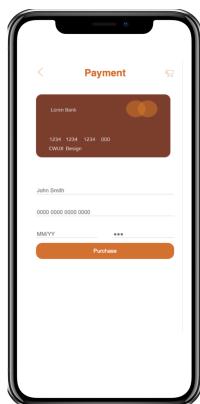
Product page, in this case Flat White. This product was chosen to be used in the prototype, as it is Cafe's most popular product.

## 6. Checkout.html



Checkout page. In it we made a script to fill in the items in the shopping cart.

## 7. Payment.html



## 8. Confirmation.html



Payment confirmation page. On this page it is possible to check the progress of the order, send suggestions and evaluate the service.

# Test and Validation

---



## Our checklist

- Validate HTML/XHTML
- Validate CSS
- Validate Links (check for dead links)
- Check across different browsers (include handheld computers, Mac, PC, and cellphones, too)

We used for the validation: The [W3C's HTML Validation Service](#), [W3.org's CSS Validator](#) and the [Lighthouse Report Viewer](#) (<https://googlechrome.github.io/lighthouse/viewer/>).

Lighthouse is an open-source, automated tool for improving the performance, quality, and correctness of web apps. When auditing a page, Lighthouse runs a barrage of tests against the page, and then generates a report on how well the page did.

# Results



## Index.html

← → C [validator.w3.org/nu/#file](https://validator.w3.org/nu/#file)

[Video Aulas](#) [Como fazer os no...](#) [Prof. Flávio Migue...](#) [Compiler](#) [Redmine da Disci...](#) [WF Usage Statistics a...](#) [Sistemas de...](#)

### Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

**Showing results for uploaded file Index.html**

Checker Input

Show  source  outline  image report [Options...](#)

Check by [file upload](#) [Choose file](#) No file chosen

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

[Check](#)

Document checking completed. No errors or warnings to show.

Used the HTML parser.  
Total execution time 7 milliseconds.

[About this checker](#) • [Report an issue](#) • Version: 22.4.13

## Home.html

### Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

**Showing results for Home.html**

Checker Input

Show  source  outline  image report [Options...](#)

Check by [file upload](#) [Choose file](#) No file chosen

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

[Check](#)

Document checking completed. No errors or warnings to show.

Used the HTML parser.  
Total execution time 8 milliseconds.

[About this checker](#) • [Report an issue](#) • Version: 22.4.13

# Results



## List-Hot-Drinks.html

### Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

#### Showing results for List-Hot-Drinks.html

Checker Input

Show  source  outline  image report [Options...](#)

Check by [file upload](#) [Choose file](#) No file chosen

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

[Check](#)

Document checking completed. No errors or warnings to show.

Used the HTML parser.

Total execution time 5 milliseconds.

[About this checker](#) • [Report an issue](#) • Version: 22.4.13

## Coffees.html

### Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

#### Showing results for Coffees.html

Checker Input

Show  source  outline  image report [Options...](#)

Check by [file upload](#) [Choose file](#) No file chosen

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

[Check](#)

Document checking completed. No errors or warnings to show.

Used the HTML parser.

Total execution time 7 milliseconds.

[About this checker](#) • [Report an issue](#) • Version: 22.4.13

# Results



## FlatWhite.html

### Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

#### Showing results for FlatWhite.html

Checker Input

Show  source  outline  image report

Check by   No file chosen

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

Document checking completed. No errors or warnings to show.

Used the HTML parser.

Total execution time 13 milliseconds.

[About this checker](#) • [Report an issue](#) • Version: 22.4.13

## Payment.html

### Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

#### Showing results for Payment.html

Checker Input

Show  source  outline  image report

Check by   No file chosen

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

Document checking completed. No errors or warnings to show.

Used the HTML parser.

Total execution time 9 milliseconds.

[About this checker](#) • [Report an issue](#) • Version: 22.4.13

# Results



## Confirmation.html

### Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

#### Showing results for Confirmation.html

Checker Input

Show  source  outline  image report [Options...](#)

Check by [file upload](#)  No file chosen

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

[Check](#)

Document checking completed. No errors or warnings to show.

Used the HTML parser.

Total execution time 9 milliseconds.

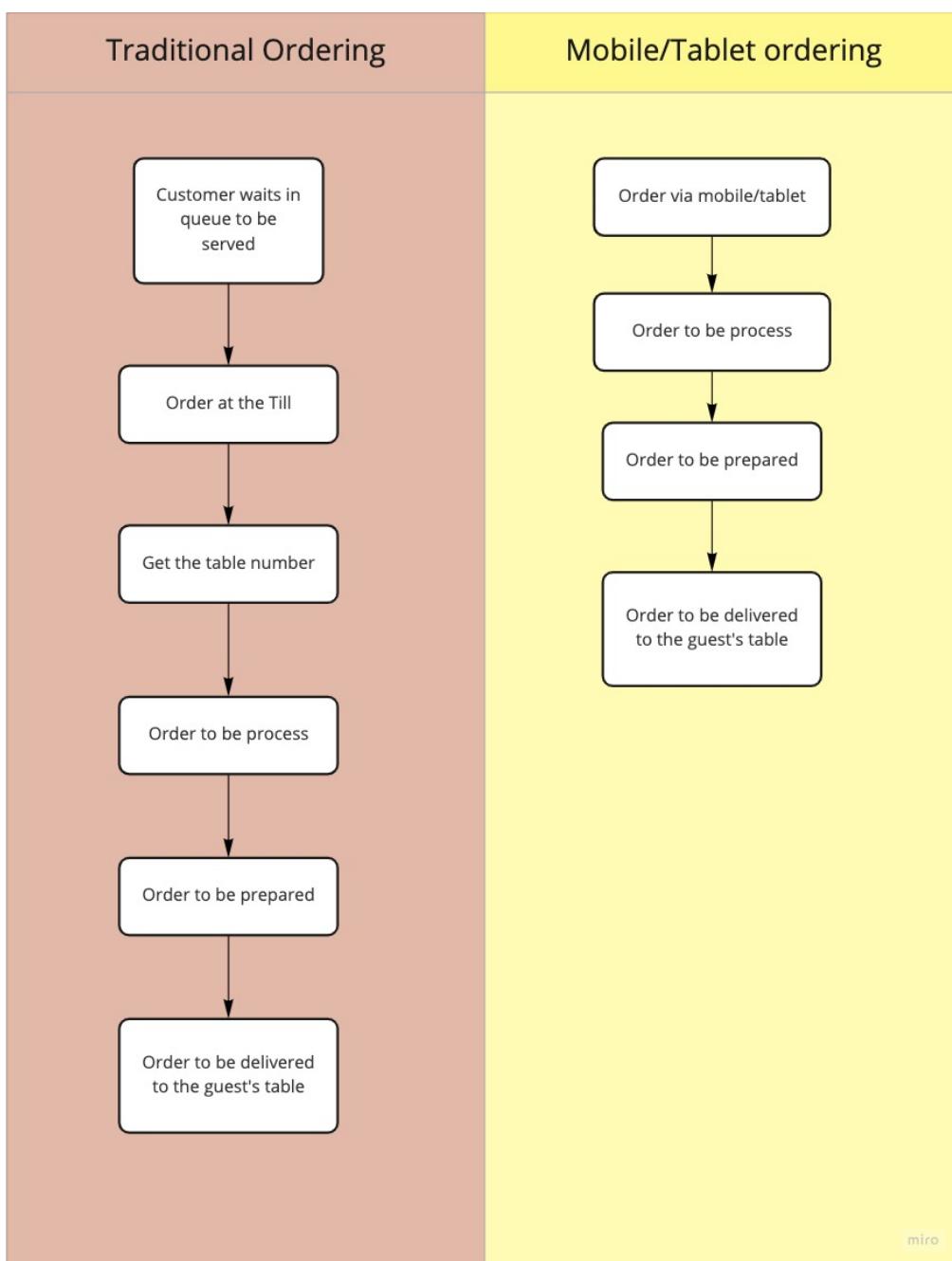
[About this checker](#) • [Report an issue](#) • Version: 22.4.13

**The other more detailed tests are attached to the documentation**

# Final considerations

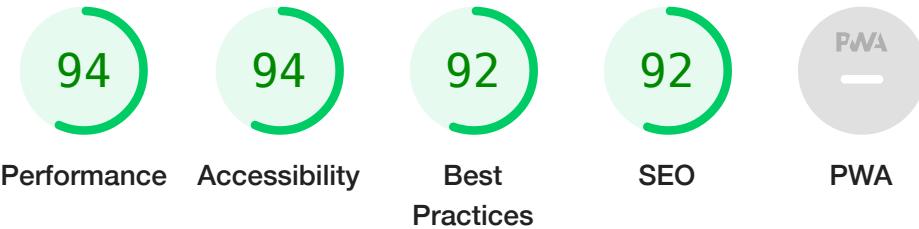
## How the project affect de business and users

With the proposal presented, the waiting time for a customer to be served and make an order will be reduced. Also, it will be possible to view the menu, check deals, make suggestions and track the progress of the order. The website develop meets industry standards criteria proven through the tests and validations provided by w3c and lighhouse.



## Annex A

### Test Reports from Lighthouse report viewer



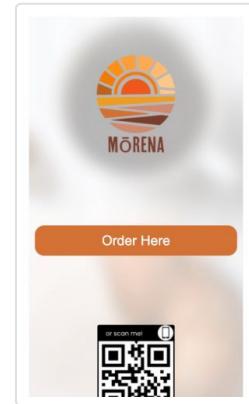
## Performance

Values are estimated and may vary. The [performance score is calculated](#) directly from these metrics. [See calculator.](#)

▲ 0–49

50–89

90–100



## METRICS

[Expand view](#)

First Contentful Paint

**1.5 s**

Time to Interactive

**1.5 s**

Speed Index

**1.5 s**

Total Blocking Time

**0 ms**

Largest Contentful Paint

**3.0 s**

Cumulative Layout Shift

**0**

[View Original Trace](#)

[View Treemap](#)



Show audits relevant to: [All](#) [FCP](#) [TBT](#) [LCP](#) [CLS](#)

## OPPORTUNITIES

Opportunity

Estimated Savings

Preload Largest Contentful Paint image

0.15 s ▾

Minify CSS

0.15 s ▾

Reduce unused CSS

0.15 s ▾

Efficiently encode images

0.15 s ▾

Serve images in next-gen formats

0.15 s ▾

Enable text compression

0.15 s ▾

These suggestions can help your page load faster. They don't [directly affect](#) the Performance score.

## DIAGNOSTICS

▲ Image elements do not have explicit `width` and `height`

▼

○ Avoid chaining critical requests — 3 chains found

▼

○ Keep request counts low and transfer sizes small — 13 requests • 237 KiB

▼

○ Largest Contentful Paint element — 1 element found

▼

○ Avoid long main-thread tasks — 4 long tasks found

▼

More information about the performance of your application. These numbers don't [directly affect](#) the Performance score.

## PASSED AUDITS (29)

Show



## Accessibility

These checks highlight opportunities to [improve the accessibility of your web app](#). Only a subset of accessibility issues can be automatically detected so manual testing is also encouraged.

## CONTRAST

▲ Background and foreground colors do not have a sufficient contrast ratio.

▼

These are opportunities to improve the legibility of your content.

**ADDITIONAL ITEMS TO MANUALLY CHECK (10)**[Show](#)

These items address areas which an automated testing tool cannot cover. Learn more in our guide on [conducting an accessibility review](#).

**PASSED AUDITS (7)**[Show](#)**NOT APPLICABLE (36)**[Show](#)**Best Practices****USER EXPERIENCE**

- ▲ Serves images with low resolution

**TRUST AND SAFETY**

- Ensure CSP is effective against XSS attacks

**PASSED AUDITS (12)**[Show](#)**NOT APPLICABLE (2)**[Show](#)**SEO**

These checks ensure that your page is following basic search engine optimization advice. There are many additional factors Lighthouse does not score here that may affect your search ranking, including performance on [Core Web Vitals](#). [Learn more](#).

**CONTENT BEST PRACTICES**

- ▲ Document does not have a meta description ▼

Format your HTML in a way that enables crawlers to better understand your app's content.

#### ADDITIONAL ITEMS TO MANUALLY CHECK (1)

Show

Run these additional validators on your site to check additional SEO best practices.

#### PASSED AUDITS (11)

Show

#### NOT APPLICABLE (2)

Show



## PWA

These checks validate the aspects of a Progressive Web App. [Learn more](#).

#### INSTALLABLE

- ▲ Web app manifest or service worker do not meet the installability requirements — 1 reason ▼

#### PWA OPTIMIZED

- ▲ Does not register a service worker that controls page and `start_url` ▼

- ▲ Is not configured for a custom splash screen **Failures: No manifest was fetched.** ▼

- ▲ Does not set a theme color for the address bar.

**Failures: No manifest was fetched, No `<meta name="theme-color">` tag found.** ▼

Content is sized correctly for the viewport ▼

Has a `<meta name="viewport">` tag with `width` or `initial-scale` ▼

- ▲ Does not provide a valid `apple-touch-icon` ▼

- ▲ Manifest doesn't have a maskable icon **No manifest was fetched** ▼

## ADDITIONAL ITEMS TO MANUALLY CHECK (3)

These checks are required by the baseline [PWA Checklist](#) but are not automatically checked by Lighthouse. They do not affect your score but it's important that you verify them manually.

Captured at Apr 14, 2022, 7:24  
PM GMT+12  
Initial page load

Emulated Moto G4 with  
Lighthouse 9.4.0  
Slow 4G throttling

Single page load  
Using Chromium  
100.0.4896.75 with devtools

Generated by **Lighthouse** 9.4.0 | [File an issue](#)



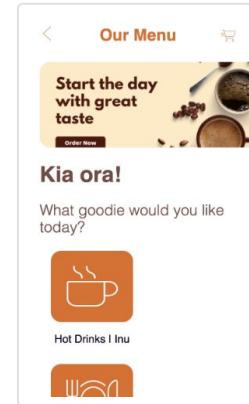
## Performance

Values are estimated and may vary. The [performance score is calculated](#) directly from these metrics. [See calculator.](#)

▲ 0–49

50–89

90–100



## METRICS

[Expand view](#)

First Contentful Paint

**1.5 s**

Time to Interactive

**1.6 s**

Speed Index

**1.5 s**

Total Blocking Time

**10 ms**

Largest Contentful Paint

**1.5 s**

Cumulative Layout Shift

**0**[View Original Trace](#)[View Treemap](#)Show audits relevant to: All [FCP](#) [TBT](#) [LCP](#) [CLS](#)

## OPPORTUNITIES

Opportunity

Estimated Savings

▲ Serve images in next-gen formats	8.1 s	▼
▲ Properly size images	6.75 s	▼
Reduce unused CSS	0.15 s	▼
Enable text compression	0.15 s	▼

These suggestions can help your page load faster. They don't [directly affect](#) the Performance score.

## DIAGNOSTICS

▲ Image elements do not have explicit <code>width</code> and <code>height</code>	▼
○ Avoid chaining critical requests — 4 chains found	▼
○ Keep request counts low and transfer sizes small — 18 requests • 1,900 KiB	▼
○ Largest Contentful Paint element — 1 element found	▼
○ Avoid long main-thread tasks — 3 long tasks found	▼

More information about the performance of your application. These numbers don't [directly affect](#) the Performance score.

## PASSED AUDITS (31)

Show



## Accessibility

These checks highlight opportunities to [improve the accessibility of your web app](#). Only a subset of accessibility issues can be automatically detected so manual testing is also encouraged.

## BEST PRACTICES

▲ <code>[user-scalable="no"]</code> is used in the <code>&lt;meta name="viewport"&gt;</code> element or the <code>[maximum-scale]</code> attribute is less than 5.	▼
--	---

These items highlight common accessibility best practices.

## NAVIGATION

- ▲ Heading elements are not in a sequentially-descending order ▼

These are opportunities to improve keyboard navigation in your application.

#### ADDITIONAL ITEMS TO MANUALLY CHECK (10)

Show

These items address areas which an automated testing tool cannot cover. Learn more in our guide on [conducting an accessibility review](#).

#### PASSED AUDITS (13)

Show

#### NOT APPLICABLE (29)

Show



## Best Practices

#### TRUST AND SAFETY

- Ensure CSP is effective against XSS attacks ▼

#### PASSED AUDITS (13)

Show

#### NOT APPLICABLE (2)

Show



## SEO

These checks ensure that your page is following basic search engine optimization advice. There are many additional factors Lighthouse does not score here that may affect your search ranking, including performance on [Core Web Vitals](#). [Learn more](#).

#### CONTENT BEST PRACTICES

- ▲ Document does not have a meta description ▼

Format your HTML in a way that enables crawlers to better understand your app's content.

#### ADDITIONAL ITEMS TO MANUALLY CHECK (1)

Show

Run these additional validators on your site to check additional SEO best practices.

#### PASSED AUDITS (11)

Show

#### NOT APPLICABLE (2)

Show



## PWA

These checks validate the aspects of a Progressive Web App. [Learn more.](#)

#### INSTALLABLE

- ▲ Web app manifest or service worker do not meet the installability requirements — 1 reason ▼

#### PWA OPTIMIZED

- ▲ Does not register a service worker that controls page and `start_url` ▼

- ▲ Is not configured for a custom splash screen **Failures: No manifest was fetched.** ▼

- ▲ Does not set a theme color for the address bar.

**Failures: No manifest was fetched, No `<meta name="theme-color">` tag found.** ▼

- ▲ Content is not sized correctly for the viewport

**The viewport size of 327px does not match the window size of 1440px.** ▼

Has a `<meta name="viewport">` tag with `width` or `initial-scale` ▼

- ▲ Does not provide a valid `apple-touch-icon` ▼

- ▲ Manifest doesn't have a maskable icon **No manifest was fetched** ▼

## ADDITIONAL ITEMS TO MANUALLY CHECK (3)

[Show](#)

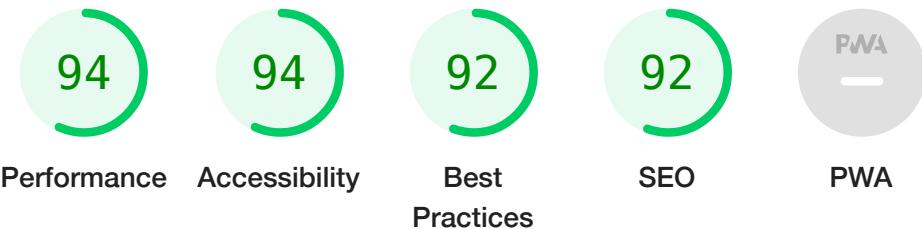
These checks are required by the baseline [PWA Checklist](#) but are not automatically checked by Lighthouse. They do not affect your score but it's important that you verify them manually.

Captured at Apr 14, 2022, 7:25  
PM GMT+12  
Initial page load

Emulated Moto G4 with  
Lighthouse 9.4.0  
Slow 4G throttling

Single page load  
Using Chromium  
100.0.4896.75 with devtools

Generated by **Lighthouse** 9.4.0 | [File an issue](#)



## Performance

Values are estimated and may vary. The [performance score is calculated](#) directly from these metrics. [See calculator.](#)

▲ 0–49

50–89

90–100



## METRICS

[Expand view](#)

First Contentful Paint

**1.6 s**

Time to Interactive

**1.6 s**

Speed Index

**1.6 s**

Total Blocking Time

**0 ms**

Largest Contentful Paint

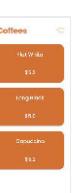
**3.0 s**

Cumulative Layout Shift

**0.019**

[View Original Trace](#)

[View Treemap](#)



Show audits relevant to: All [FCP](#) [TBT](#) [LCP](#) [CLS](#)

## OPPORTUNITIES

Opportunity

Estimated Savings

These suggestions can help your page load faster. They don't [directly affect](#) the Performance score.

## DIAGNOSTICS

- ▲ Image elements do not have explicit `width` and `height` ▾

- Avoid chaining critical requests — 4 chains found ▾

- Keep request counts low and transfer sizes small — 16 requests • 234 KiB ▾

- Largest Contentful Paint element — 1 element found ▾

- Avoid large layout shifts — 1 element found ▾

- Avoid long main-thread tasks — 3 long tasks found ▾

More information about the performance of your application. These numbers don't [directly affect](#) the Performance score.

## PASSED AUDITS (33)

Show



## Accessibility

These checks highlight opportunities to [improve the accessibility of your web app](#). Only a subset of accessibility issues can be automatically detected so manual testing is also encouraged.

## CONTRAST

- ▲ Background and foreground colors do not have a sufficient contrast ratio. ▾

These are opportunities to improve the legibility of your content.

## ADDITIONAL ITEMS TO MANUALLY CHECK (10)

Show

These items address areas which an automated testing tool cannot cover. Learn more in our guide on [conducting an accessibility review](#).

## PASSED AUDITS (9)

Show

## NOT APPLICABLE (34)

[Show](#)

## Best Practices

### USER EXPERIENCE

- ▲ Serves images with low resolution

[▼](#)

### TRUST AND SAFETY

- Ensure CSP is effective against XSS attacks

[▼](#)

### PASSED AUDITS (12)

[Show](#)

### NOT APPLICABLE (2)

[Show](#)

## SEO

These checks ensure that your page is following basic search engine optimization advice. There are many additional factors Lighthouse does not score here that may affect your search ranking, including performance on [Core Web Vitals](#). [Learn more](#).

### CONTENT BEST PRACTICES

- ▲ Document does not have a meta description

[▼](#)

Format your HTML in a way that enables crawlers to better understand your app's content.

### ADDITIONAL ITEMS TO MANUALLY CHECK (1)

[Show](#)

Run these additional validators on your site to check additional SEO best practices.

## PASSED AUDITS (11)

Show

## NOT APPLICABLE (2)

Show

**PWA**

These checks validate the aspects of a Progressive Web App. [Learn more.](#)

## INSTALLABLE

- ▲ Web app manifest or service worker do not meet the installability requirements — **1 reason**

▼

## PWA OPTIMIZED

- ▲ Does not register a service worker that controls page and `start_url`
- ▲ Is not configured for a custom splash screen **Failures: No manifest was fetched.**
- ▲ Does not set a theme color for the address bar.  
**Failures: No manifest was fetched, No `<meta name="theme-color">` tag found.**

▼

▼

## Content is sized correctly for the viewport

▼

Has a `<meta name="viewport">` tag with `width` or `initial-scale`

▼

- ▲ Does not provide a valid `apple-touch-icon`
- ▲ Manifest doesn't have a maskable icon **No manifest was fetched**

▼

▼

## ADDITIONAL ITEMS TO MANUALLY CHECK (3)

Show

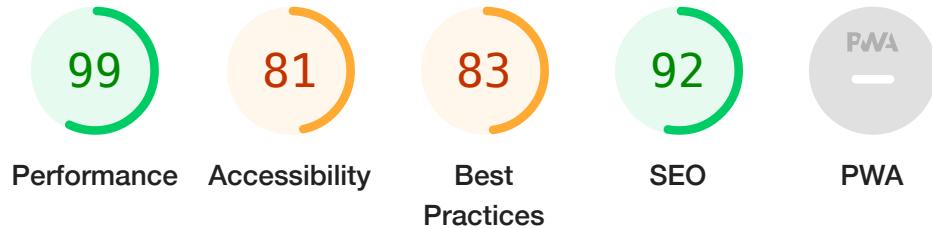
These checks are required by the baseline [PWA Checklist](#) but are not automatically checked by Lighthouse. They do not affect your score but it's important that you verify them manually.

Captured at Apr 14, 2022, 5:32  
PM GMT+12  
Initial page load

Emulated Moto G4 with  
Lighthouse 9.4.0  
Slow 4G throttling

Single page load  
Using Chromium

Generated by **Lighthouse** 9.4.0 | [File an issue](#)



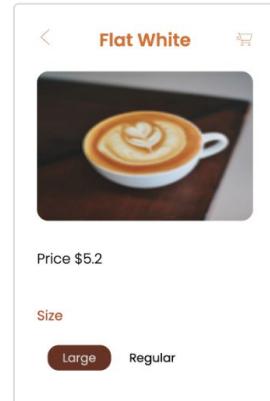
## Performance

Values are estimated and may vary. The [performance score is calculated](#) directly from these metrics. [See calculator.](#)

▲ 0–49

50–89

90–100



## METRICS

[Expand view](#)

First Contentful Paint

**1.5 s**

Time to Interactive

**1.6 s**

Speed Index

**1.5 s**

Total Blocking Time

**80 ms**

Largest Contentful Paint

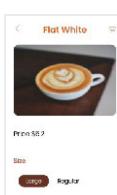
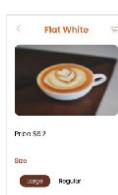
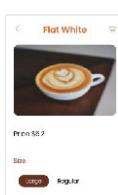
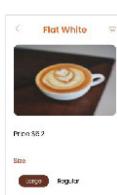
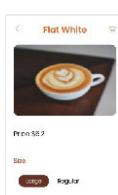
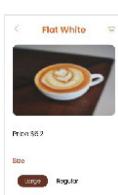
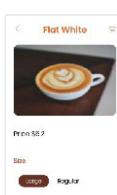
**1.5 s**

Cumulative Layout Shift

**0.044**

[View Original Trace](#)

[View Treemap](#)



Show audits relevant to: All [FCP](#) [TBT](#) [LCP](#) [CLS](#)

## DIAGNOSTICS

- Avoid chaining critical requests — 5 chains found



- Keep request counts low and transfer sizes small — 15 requests • 204 KiB
- Largest Contentful Paint element — 1 element found
- Avoid large layout shifts — 4 elements found
- Avoid long main-thread tasks — 3 long tasks found

More information about the performance of your application. These numbers don't [directly affect](#) the Performance score.

## PASSED AUDITS (35)

Show



## Accessibility

These checks highlight opportunities to [improve the accessibility of your web app](#). Only a subset of accessibility issues can be automatically detected so manual testing is also encouraged.

### NAMES AND LABELS

- ⚠ Form elements do not have associated labels

These are opportunities to improve the semantics of the controls in your application. This may enhance the experience for users of assistive technology, like a screen reader.

### CONTRAST

- ⚠ Background and foreground colors do not have a sufficient contrast ratio.

These are opportunities to improve the legibility of your content.

## ADDITIONAL ITEMS TO MANUALLY CHECK (10)

Show

These items address areas which an automated testing tool cannot cover. Learn more in our guide on [conducting an accessibility review](#).

## PASSED AUDITS (10)

Show

## NOT APPLICABLE (32)

Show



## Best Practices

### USER EXPERIENCE

- ▲ Displays images with incorrect aspect ratio

- ▲ Serves images with low resolution

### TRUST AND SAFETY

- Ensure CSP is effective against XSS attacks

### PASSED AUDITS (11)

[Show](#)

### NOT APPLICABLE (2)

[Show](#)

## SEO

These checks ensure that your page is following basic search engine optimization advice. There are many additional factors Lighthouse does not score here that may affect your search ranking, including performance on [Core Web Vitals](#). [Learn more](#).

### CONTENT BEST PRACTICES

- ▲ Document does not have a meta description

Format your HTML in a way that enables crawlers to better understand your app's content.

### ADDITIONAL ITEMS TO MANUALLY CHECK (1)

[Show](#)

Run these additional validators on your site to check additional SEO best practices.

## PASSED AUDITS (11)

[Show](#)

## NOT APPLICABLE (2)

[Show](#)**PWA**

These checks validate the aspects of a Progressive Web App. [Learn more.](#)

## INSTALLABLE

- ▲ Web app manifest or service worker do not meet the installability requirements — **1 reason** ▼

## PWA OPTIMIZED

- ▲ Does not register a service worker that controls page and `start_url` ▼
- ▲ Is not configured for a custom splash screen **Failures: No manifest was fetched.** ▼
- ▲ Does not set a theme color for the address bar.  
**Failures: No manifest was fetched, No `<meta name="theme-color">` tag found.** ▼
- ▲ Content is not sized correctly for the viewport  
**The viewport size of 327px does not match the window size of 1440px.** ▼
- Has a `<meta name="viewport">` tag with `width` or `initial-scale` ▼
- ▲ Does not provide a valid `apple-touch-icon` ▼
- ▲ Manifest doesn't have a maskable icon **No manifest was fetched** ▼

## ADDITIONAL ITEMS TO MANUALLY CHECK (3)

[Show](#)

These checks are required by the baseline [PWA Checklist](#) but are not automatically checked by Lighthouse. They do not affect your score but it's important that you verify them manually.

Initial page load

Slow 4G throttling

Using Chromium

100.0.4896.75 with devtools

Generated by **Lighthouse** 9.4.0 | [File an issue](#)



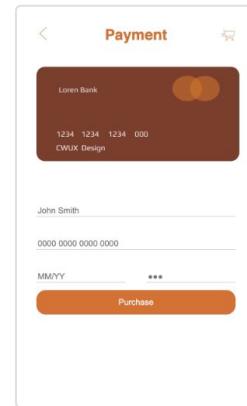
## Performance

Values are estimated and may vary. The [performance score is calculated](#) directly from these metrics. [See calculator.](#)

▲ 0–49

50–89

90–100



## METRICS

[Expand view](#)

First Contentful Paint

**0.8 s**

Time to Interactive

**0.8 s**

Speed Index

**0.8 s**

Total Blocking Time

**0 ms**

Largest Contentful Paint

**1.1 s**

Cumulative Layout Shift

**0**

[View Original Trace](#)

[View Treemap](#)



Show audits relevant to: All [FCP](#) [TBT](#) [LCP](#) [CLS](#)

## OPPORTUNITIES

Opportunity

Estimated Savings

## Minify CSS

0.15 s ▾

## Reduce unused CSS

0.15 s ▾

## Enable text compression

0.15 s ▾

These suggestions can help your page load faster. They don't [directly affect](#) the Performance score.

## DIAGNOSTICS

- Avoid chaining critical requests — 1 chain found

▼

- Keep request counts low and transfer sizes small — 6 requests • 34 KiB

▼

- Largest Contentful Paint element — 1 element found

▼

- Avoid long main-thread tasks — 2 long tasks found

▼

More information about the performance of your application. These numbers don't [directly affect](#) the Performance score.

## PASSED AUDITS (33)

Show



## Accessibility

These checks highlight opportunities to [improve the accessibility of your web app](#). Only a subset of accessibility issues can be automatically detected so manual testing is also encouraged.

## CONTRAST

- ⚠ Background and foreground colors do not have a sufficient contrast ratio.

▼

These are opportunities to improve the legibility of your content.

## ADDITIONAL ITEMS TO MANUALLY CHECK (10)

Show

These items address areas which an automated testing tool cannot cover. Learn more in our guide on [conducting an accessibility review](#).

## PASSED AUDITS (11)

Show

## NOT APPLICABLE (32)

[Show](#)

## Best Practices

## TRUST AND SAFETY

- Ensure CSP is effective against XSS attacks

[▼](#)

## PASSED AUDITS (13)

[Show](#)

## NOT APPLICABLE (2)

[Show](#)

## SEO

These checks ensure that your page is following basic search engine optimization advice. There are many additional factors Lighthouse does not score here that may affect your search ranking, including performance on [Core Web Vitals](#). [Learn more](#).

## CONTENT BEST PRACTICES

- ⚠ Document does not have a meta description

[▼](#)

Format your HTML in a way that enables crawlers to better understand your app's content.

## ADDITIONAL ITEMS TO MANUALLY CHECK (1)

[Show](#)

Run these additional validators on your site to check additional SEO best practices.

## PASSED AUDITS (11)

[Show](#)

## NOT APPLICABLE (2)

[Show](#)



## PWA

These checks validate the aspects of a Progressive Web App. [Learn more.](#)

### INSTALLABLE

- ▲ Web app manifest or service worker do not meet the installability requirements — [1 reason](#)

### PWA OPTIMIZED

- ▲ Does not register a service worker that controls page and [start\\_url](#)
- ▲ Is not configured for a custom splash screen **Failures: No manifest was fetched.**
- ▲ Does not set a theme color for the address bar.  
**Failures: No manifest was fetched, No `<meta name="theme-color">` tag found.**

Content is sized correctly for the viewport

Has a `<meta name="viewport">` tag with [width](#) or [initial-scale](#)

- ▲ Does not provide a valid [apple-touch-icon](#)
- ▲ Manifest doesn't have a maskable icon **No manifest was fetched**

### ADDITIONAL ITEMS TO MANUALLY CHECK (3)

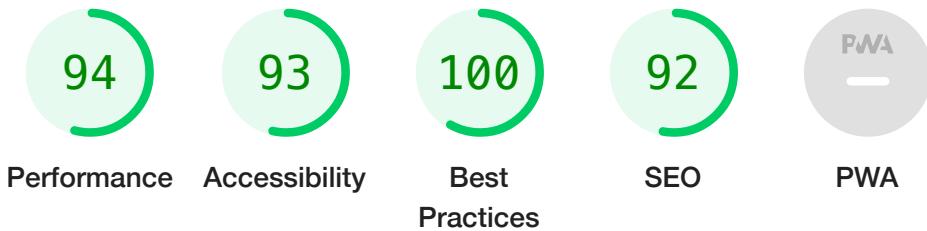
Show

These checks are required by the baseline [PWA Checklist](#) but are not automatically checked by Lighthouse. They do not affect your score but it's important that you verify them manually.

Captured at Apr 14, 2022, 6:57  
PM GMT+12  
Initial page load

Emulated Moto G4 with  
Lighthouse 9.4.0  
Slow 4G throttling

Single page load  
Using Chromium  
100.0.4896.75 with devtools



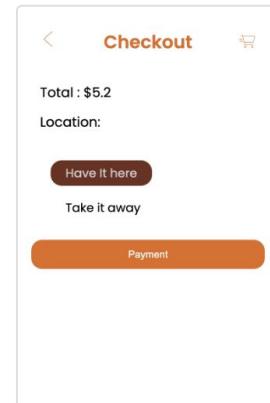
## Performance

Values are estimated and may vary. The [performance score is calculated](#) directly from these metrics. [See calculator.](#)

0–49

50–89

90–100



## METRICS

[Expand view](#)

First Contentful Paint

**1.5 s**

Time to Interactive

**1.6 s**

Speed Index

**1.5 s**

Total Blocking Time

**50 ms**

Largest Contentful Paint

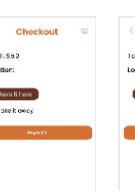
**2.9 s**

Cumulative Layout Shift

**0.045**

[View Original Trace](#)

[View Treemap](#)



Show audits relevant to: All [FCP](#) [TBT](#) [LCP](#) [CLS](#)

## DIAGNOSTICS

- Avoid chaining critical requests — 6 chains found



- Keep request counts low and transfer sizes small — 15 requests • 179 KiB

▼

- Largest Contentful Paint element — 1 element found

▼

- Avoid large layout shifts — 3 elements found

▼

- Avoid long main-thread tasks — 4 long tasks found

▼

More information about the performance of your application. These numbers don't [directly affect](#) the Performance score.

## PASSED AUDITS (35)

Show



## Accessibility

These checks highlight opportunities to [improve the accessibility of your web app](#). Only a subset of accessibility issues can be automatically detected so manual testing is also encouraged.

## CONTRAST

- ⚠ Background and foreground colors do not have a sufficient contrast ratio.

▼

These are opportunities to improve the legibility of your content.

## NAVIGATION

- ⚠ Heading elements are not in a sequentially-descending order

▼

These are opportunities to improve keyboard navigation in your application.

## ADDITIONAL ITEMS TO MANUALLY CHECK (10)

Show

These items address areas which an automated testing tool cannot cover. Learn more in our guide on [conducting an accessibility review](#).

## PASSED AUDITS (10)

Show

## NOT APPLICABLE (32)

Show



## Best Practices

### TRUST AND SAFETY

- Ensure CSP is effective against XSS attacks

A small, dark gray downward-pointing arrow icon.

### PASSED AUDITS (13)

[Show](#)

### NOT APPLICABLE (2)

[Show](#)

## SEO

These checks ensure that your page is following basic search engine optimization advice. There are many additional factors Lighthouse does not score here that may affect your search ranking, including performance on [Core Web Vitals](#). [Learn more](#).

### CONTENT BEST PRACTICES

- ▲ Document does not have a meta description

A small, dark gray downward-pointing arrow icon.

Format your HTML in a way that enables crawlers to better understand your app's content.

### ADDITIONAL ITEMS TO MANUALLY CHECK (1)

[Show](#)

Run these additional validators on your site to check additional SEO best practices.

### PASSED AUDITS (11)

[Show](#)

### NOT APPLICABLE (2)

[Show](#)



## PWA

These checks validate the aspects of a Progressive Web App. [Learn more.](#)

### INSTALLABLE

- ▲ Web app manifest or service worker do not meet the installability requirements — **1 reason**

### PWA OPTIMIZED

- ▲ Does not register a service worker that controls page and `start_url`
- ▲ Is not configured for a custom splash screen **Failures: No manifest was fetched.**
- ▲ Does not set a theme color for the address bar.  
**Failures: No manifest was fetched, No `<meta name="theme-color">` tag found.**
- ▲ Content is not sized correctly for the viewport  
**The viewport size of 327px does not match the window size of 1440px.**
- Has a `<meta name="viewport">` tag with `width` or `initial-scale`
- ▲ Does not provide a valid `apple-touch-icon`
- ▲ Manifest doesn't have a maskable icon **No manifest was fetched**

### ADDITIONAL ITEMS TO MANUALLY CHECK (3)

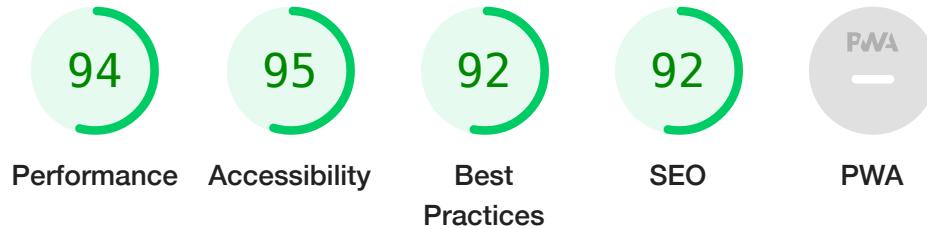
Show

These checks are required by the baseline [PWA Checklist](#) but are not automatically checked by Lighthouse. They do not affect your score but it's important that you verify them manually.

Captured at Apr 14, 2022, 6:41  
PM GMT+12  
Initial page load

Emulated Moto G4 with  
Lighthouse 9.4.0  
Slow 4G throttling

Single page load  
Using Chromium  
100.0.4896.75 with devtools



## Performance

Values are estimated and may vary. The [performance score is calculated](#) directly from these metrics. [See calculator.](#)

▲ 0–49

50–89

90–100



## METRICS

[Expand view](#)

First Contentful Paint

**1.5 s**

Time to Interactive

**1.5 s**

Speed Index

**1.5 s**

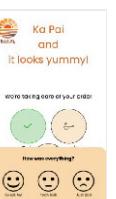
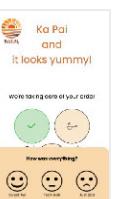
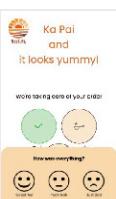
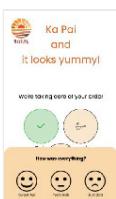
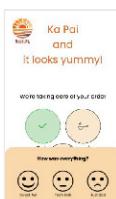
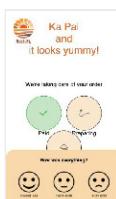
Total Blocking Time

**0 ms**

Largest Contentful Paint

**2.9 s**

Cumulative Layout Shift

**0.064**
[View Original Trace](#)
[View Treemap](#)

 Show audits relevant to: All [FCP](#) [TBT](#) [LCP](#) [CLS](#)

## DIAGNOSTICS

⚠️ Image elements do not have explicit `width` and `height`

▼

- Avoid chaining critical requests — 4 chains found
- Keep request counts low and transfer sizes small — 18 requests • 185 KiB
- Largest Contentful Paint element — 1 element found
- Avoid large layout shifts — 5 elements found
- Avoid long main-thread tasks — 4 long tasks found

More information about the performance of your application. These numbers don't [directly affect](#) the Performance score.

## PASSED AUDITS (34)

Show



## Accessibility

These checks highlight opportunities to [improve the accessibility of your web app](#). Only a subset of accessibility issues can be automatically detected so manual testing is also encouraged.

## CONTRAST

- ▲ Background and foreground colors do not have a sufficient contrast ratio.

These are opportunities to improve the legibility of your content.

## ADDITIONAL ITEMS TO MANUALLY CHECK (10)

Show

These items address areas which an automated testing tool cannot cover. Learn more in our guide on [conducting an accessibility review](#).

## PASSED AUDITS (10)

Show

## NOT APPLICABLE (33)

Show

## Best Practices

### USER EXPERIENCE

- ▲ Serves images with low resolution

### TRUST AND SAFETY

- Ensure CSP is effective against XSS attacks

### PASSED AUDITS (12)

[Show](#)

### NOT APPLICABLE (2)

[Show](#)

## SEO

These checks ensure that your page is following basic search engine optimization advice. There are many additional factors Lighthouse does not score here that may affect your search ranking, including performance on [Core Web Vitals](#). [Learn more](#).

### CONTENT BEST PRACTICES

- ▲ Document does not have a meta description

Format your HTML in a way that enables crawlers to better understand your app's content.

### ADDITIONAL ITEMS TO MANUALLY CHECK (1)

[Show](#)

Run these additional validators on your site to check additional SEO best practices.

### PASSED AUDITS (11)

[Show](#)

### NOT APPLICABLE (2)

[Show](#)



## PWA

These checks validate the aspects of a Progressive Web App. [Learn more.](#)

### INSTALLABLE

- ▲ Web app manifest or service worker do not meet the installability requirements — [1 reason](#)



### PWA OPTIMIZED

- ▲ Does not register a service worker that controls page and [start\\_url](#)
- ▲ Is not configured for a custom splash screen **Failures: No manifest was fetched.**
- ▲ Does not set a theme color for the address bar.  
**Failures: No manifest was fetched, No `<meta name="theme-color">` tag found.**
- ▲ Content is not sized correctly for the viewport  
**The viewport size of 327px does not match the window size of 1440px.**
- Has a `<meta name="viewport">` tag with [width](#) or [initial-scale](#)
- ▲ Does not provide a valid [apple-touch-icon](#)
- ▲ Manifest doesn't have a maskable icon **No manifest was fetched**



### ADDITIONAL ITEMS TO MANUALLY CHECK (3)

Show

These checks are required by the baseline [PWA Checklist](#) but are not automatically checked by Lighthouse. They do not affect your score but it's important that you verify them manually.

Captured at Apr 14, 2022, 7:06  
PM GMT+12  
Initial page load

Emulated Moto G4 with  
Lighthouse 9.4.0  
Slow 4G throttling

Single page load  
Using Chromium  
100.0.4896.75 with devtools