

MasterChef – Portions Calculations

Self link: can include a shortened or bitly link for ease of reference

Status: Review ▾

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Tracking bug link: *insert link with detailed information about implementation progress*

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Objective

The user will have the option to choose the number of dishes he wants according to his needs. In this way, another page will generate the necessary quantities for each recipe and its corresponding ingredients. The main objective is to waste as little food as possible and use the ingredients for future cooking. Accompanied by a calorie counter for portions.

Background

When cooking, people often don't know the exact amount of food they need. That's why with this website, they will have the opportunity to incorporate a dish counter to calculate exactly the necessary ingredients and avoid wasting food.

Additionally, they will have access to alternative ingredients based on their availability in the kitchen, ensuring balanced quality and quantity.

Requirements

The ingredients will closely match the original dish to avoid problems in the final result. There will be a calorie counter for each dish that will change as more portions are added. Recommended quantities cannot be entered if the ingredient is essential for the dish. It is necessary to specify the correct portion for each ingredient when changing the number of dishes, otherwise it may affect the result.

Design

The following will be the way to present the different available dishes along with their ingredients.

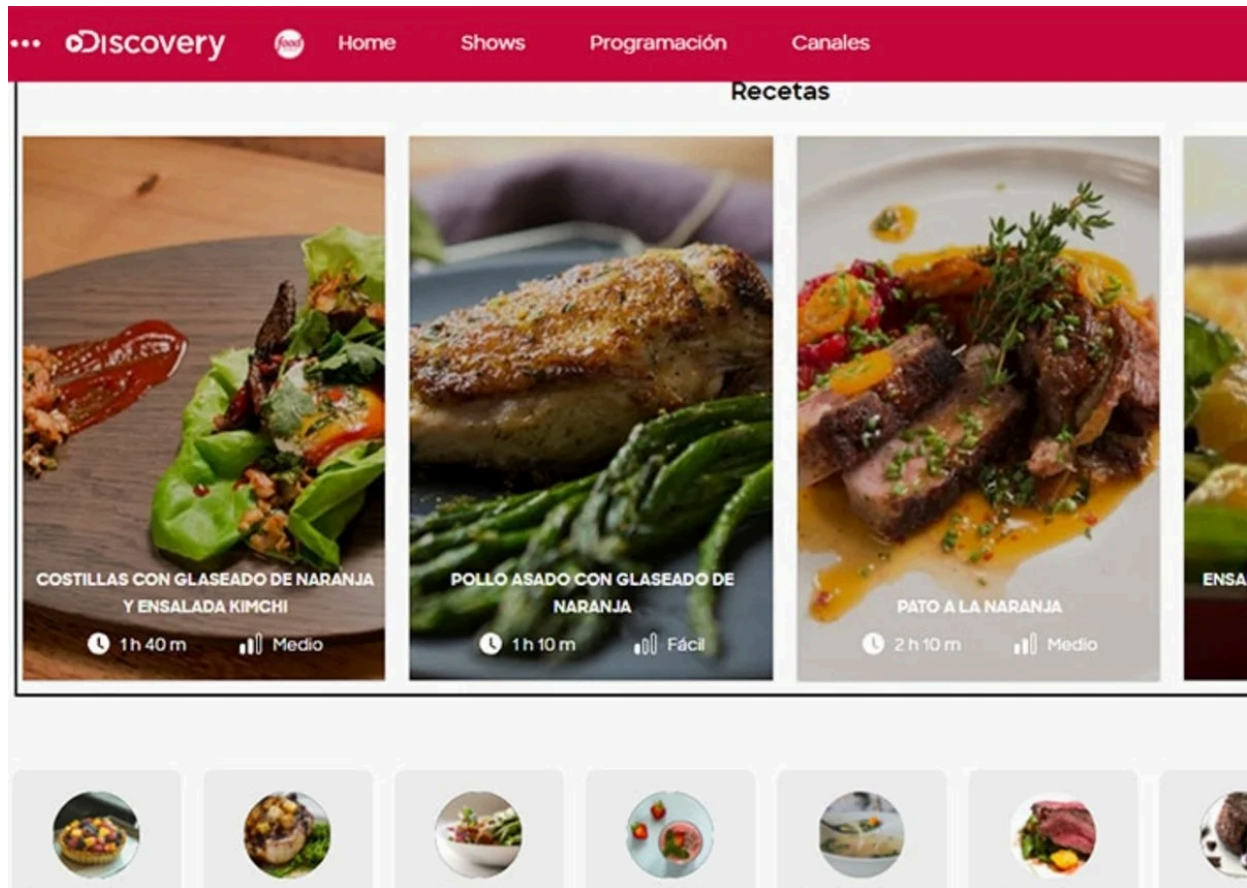


Figure 1. Discovery wrapped Image.

Similarly, we will have access to the ingredients along with their quantities, as shown in the following support image.

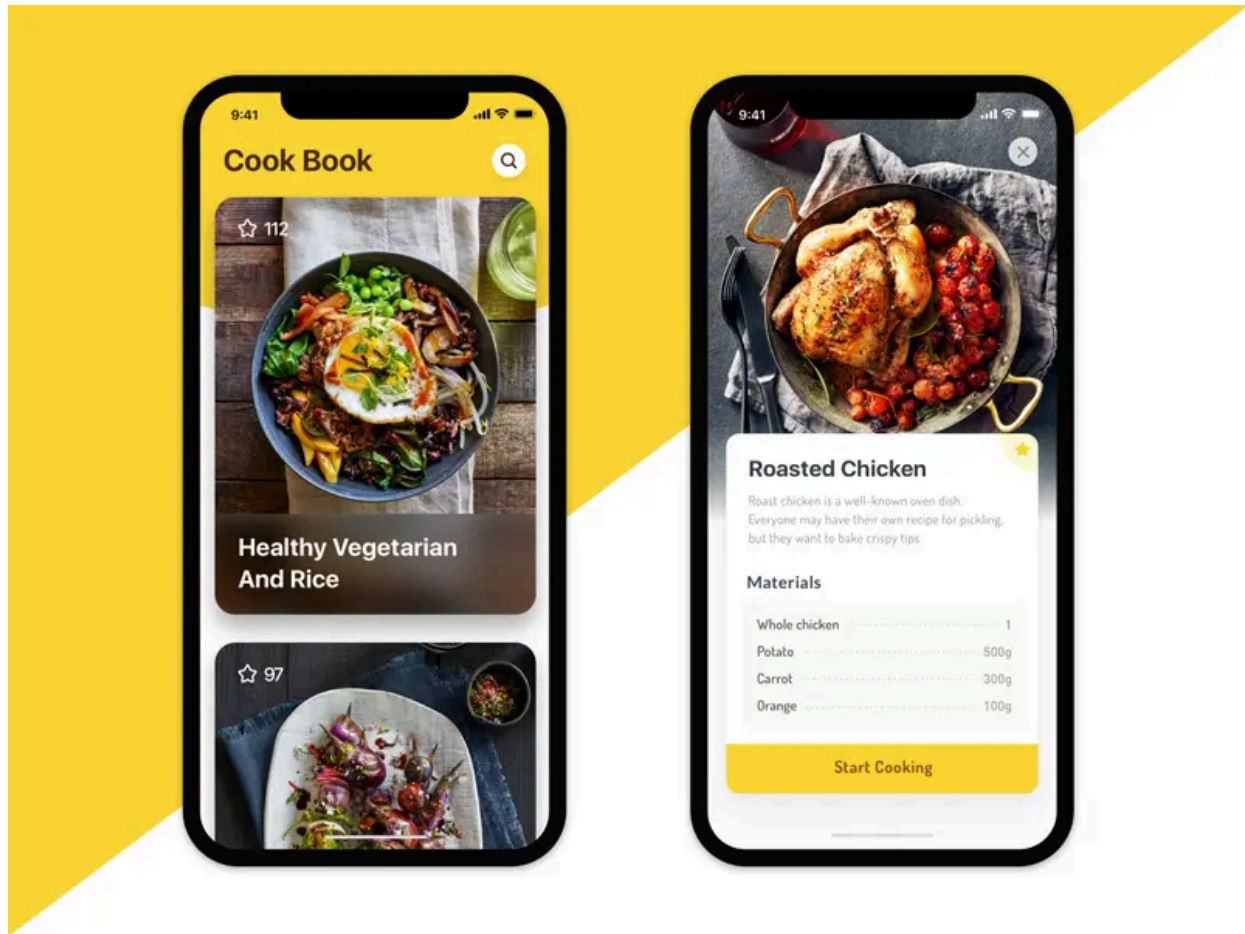


Figure 2. Cook book wrapped image to display ingredients.

There will be a section where users can share experiences related to the ingredients to offer a better understanding of how to use them and also to advise others on how to do so.

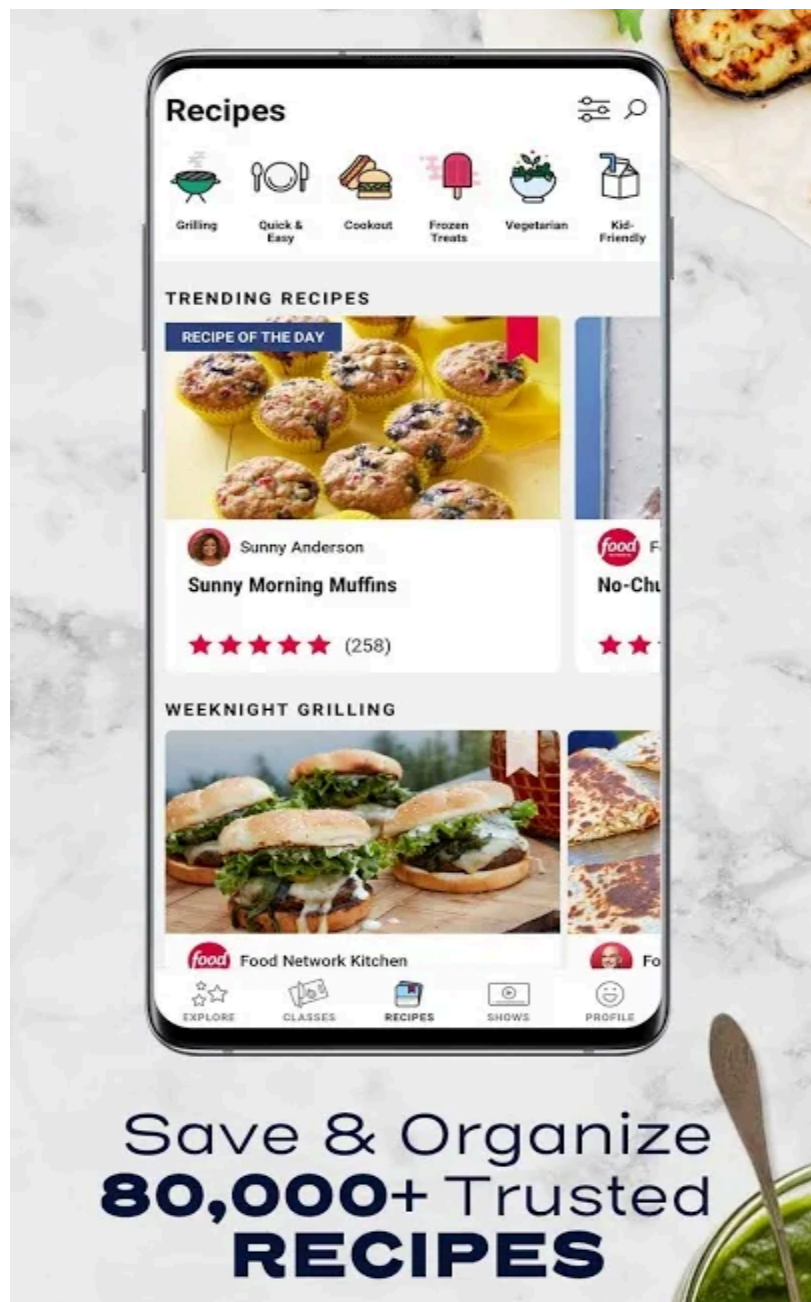


Figure 3. Food Kitchen App wrapped image to show the rating ingredients.

Alternatives Considered

Inline Display

We can store emojis as images in Drive and display them inline next to the selected text. Unfortunately that makes the document surface very crowded and further consultation with UX determined that it was better to display the emojis in the right margins of the document.

Pop-up

The method for inserting the quantity of dishes will be done via a pop-up, which will disappear once the user enters a quantity. Additionally, if the user inputs a large number of dishes and the available ingredients are insufficient, a notification will appear indicating that it is not possible to prepare the dish with those specifications.

Implementation Details

Let's add an alphabetically organized grid of dishes, featuring an illustrative image, the dish name, and the rating provided by those who have tried it.

- To enhance user experience, we'll also implement dynamic resizing code within the `isDishAvailable()` method in `MasterChef.java`. This will allow us to efficiently adapt to the quantity of ingredients entered and the dish being prepared.
- Furthermore, to facilitate tracking of missing ingredients for our dish and their respective quantities, we'll add resizing code to the `missingIngredients()` function in `MasterChef.java`. This will help us maintain a detailed overview of what we need to complete our recipe.

With these enhancements, our system will provide a more intuitive and efficient experience for users when searching for and preparing dishes.

Timeline

Date	Task	Eng Estimate (days)	Status
02/14	Add images grid.	0.5	Not started ▾
02/14	Notifications.	0.5	Not started ▾
02/14	Short descriptions and ingredients.	1	Not started ▾
02/15	Design.	2	Not started ▾
02/16	Perform calculations according to the ingredients.	0.5	Not started ▾