**Interação Pessoa-Máquina
2017/2018**

Can I Cook It?

Stage n: 2

CAN I COOK IT?

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Problem:

We aim to build an application that is based on showing the users culinary recipes so they can recreate them. The problem we see on today's applications that aim to do the previous is that the users tend to waste a lot of time looking at recipes to which they don't have the ingredients to reproduce. The fact that the user realizes that, after opening and checking the ingredients of the recipe he was looking eager to do, is both time consuming and discouraging. We intend to tackle this problem in an intuitive and efficient manner.

Target Users:

Our application is targeted at users with interest in exploring and learning new recipes to improve their culinary knowledge and experience, in a more specific way:

We believe our application would be able to be used by most users with interest in it from 12 to 80+ years of age. We also aim to build it in a way that no training is required to use, an intuitive design should cater to the needs of every user.
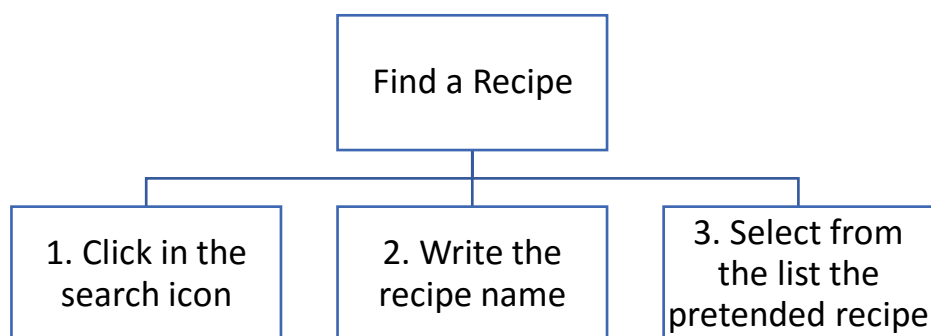
Task Analysis:

For easier analysis, we assume the user always starts in the home page before any task is performed. Therefore, every task has the pre-condition of the user being currently in the home screen.

Frequency of Use – Very High
Post-Conditions – User sees the recipe he searched for.
Exception – No recipe is found with the provided information.

```
                    ┌─────────────────┐
                    │  Find a Recipe  │
                    └─────────────────┘
                            │
         ┌──────────────────┼──────────────────┐
┌─────────────────┐ ┌─────────────────┐ ┌─────────────────────┐
│ 1. Click in the │ │  2. Write the   │ │   3. Select from    │
│   search icon   │ │   recipe name   │ │     the list the    │
│                 │ │                 │ │  pretended recipe   │
└─────────────────┘ └─────────────────┘ └─────────────────────┘
```

Frequency of Use – Medium
Post-Conditions – The ingredient is added to the user inventory.
Exception – No ingredient is known with the provided information.

```
                          ┌─────────────────┐
                          │    Add an        │
                          │ ingredient to my │
                          │   inventory      │
                          └─────────────────┘
      ┌──────────┬──────────────┬──────────┬──────────────┐
┌──────────┐ ┌──────────┐ ┌──────────┐ ┌──────────┐ ┌──────────┐
│1.Click in │ │2.Choose  │ │3.Click in │ │4.Choose  │ │5.Add an  │
│the burger │ │the       │ │the add    │ │the       │ │ingredient│
│menu       │ │inventory │ │inventory  │ │ingredient│ │          │
│           │ │option    │ │button     │ │category  │ │          │
└──────────┘ └──────────┘ └──────────┘ └──────────┘ └──────────┘
```
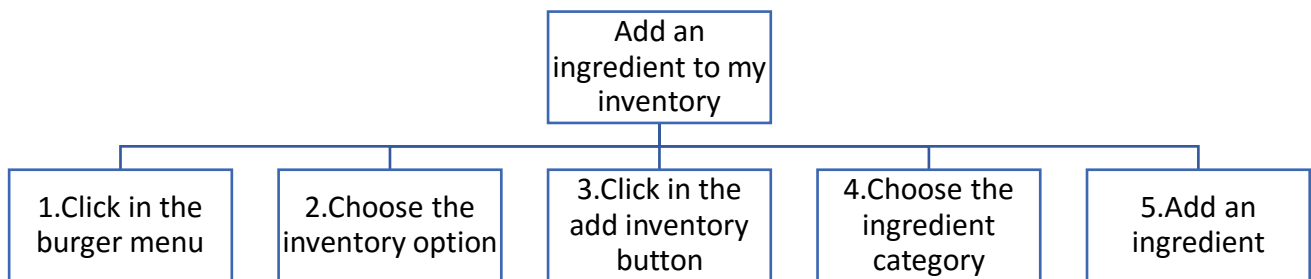
Frequency of Use – Medium
Post-Conditions – User sees the recipe he was looking for.
Exception – The user has no favorites yet, meaning there is no recipe possible to be found.

```
              ┌─────────────────┐
              │  Find one of my  │
              │ favourite Recipes│
              └─────────────────┘
         ┌──────────┬──────────────┐
   ┌──────────┐ ┌──────────┐ ┌──────────────┐
   │1. Click  │ │2. Choose │ │3. Select from│
   │the burger│ │the       │ │the list the  │
   │menu      │ │Favorites │ │pretended     │
   │          │ │option    │ │recipe        │
   └──────────┘ └──────────┘ └──────────────┘
```
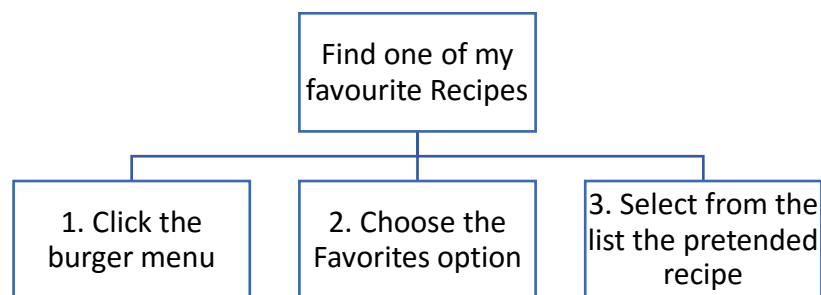
Frequency of Use – Small / Medium
Post-Conditions – The inventory is updated.
Exception – The QR Code is not recognized.

```
              ┌─────────────────┐
              │ Add ingredientes │
              │  with QR code    │
              └─────────────────┘
      ┌──────────┬──────────────┬──────────────┐
┌──────────┐ ┌──────────┐ ┌──────────┐ ┌──────────┐
│1. Click  │ │2. Choose │ │3.Click in │ │4.Scan the│
│the burger│ │the       │ │the QR     │ │QR code to│
│menu      │ │inventory │ │code icon  │ │add       │
│          │ │option    │ │           │ │          │
└──────────┘ └──────────┘ └──────────┘ └──────────┘
```
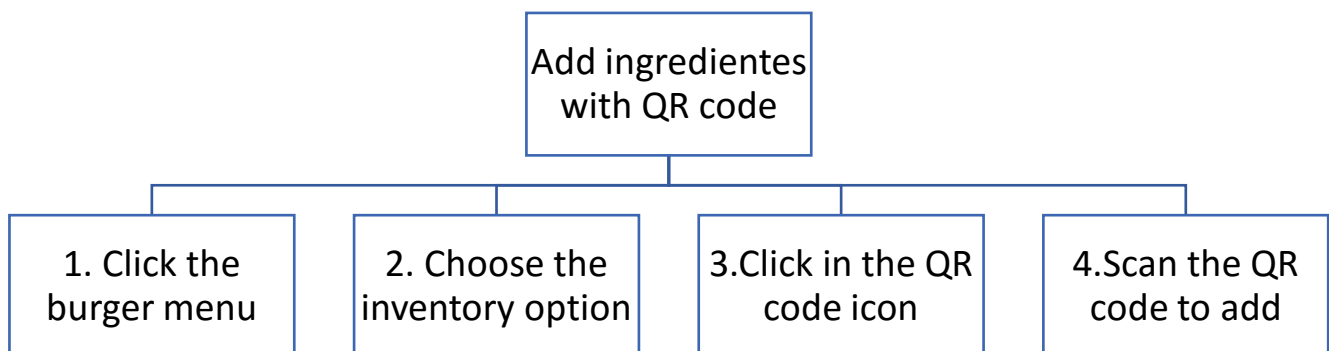
Pre-Conditions – User is in a recipe page.
Frequency of Use – Small
Post-Conditions – The shopping list is updated.

```
                    ┌─────────────────────┐
                    │    Add Missing      │
                    │  Ingredients to the │
                    │    Shopping List    │
                    └─────────────────────┘
                       │               │
            ┌──────────────────┐ ┌──────────────────────┐
            │ 1 - Scroll to the│ │   2 - Click in the   │
            │ingredients section│ │ ingredients you wish to│
            │   of the recipe  │ │ add to the Shopping List│
            └──────────────────┘ └──────────────────────┘
```
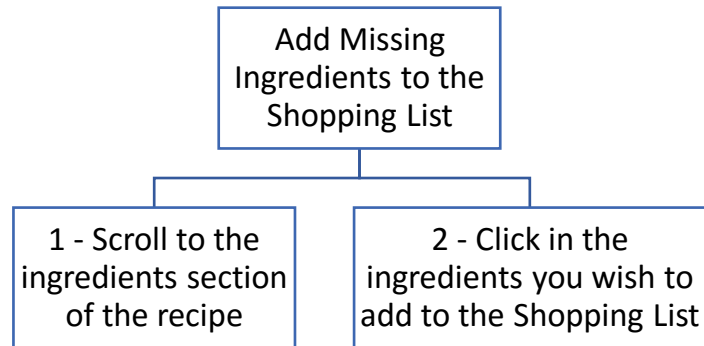
Frequency of Use: High
Post-Conditions: A recipe is found matching the given criteria.
Exceptions: No recipe was found matching the given information.

```
                          ┌──────────────┐
                          │ Search recipe│
                          │  with filters│
                          └──────────────┘
   │            │             │            │            │            │
┌────────┐ ┌──────────┐ ┌──────────┐ ┌──────────┐ ┌──────────┐ ┌──────────┐
│1. Click│ │2. Choose │ │3. Click  │ │4. Click  │ │5. Click  │ │6. Pick   │
│in the  │ │the       │ │in the    │ │in the    │ │the       │ │the recipe│
│burger  │ │Andvanced │ │add       │ │exclude   │ │Search    │ │from the  │
│menu    │ │Search    │ │ingredients│ │Ingredients│ │Icon      │ │list      │
│        │ │option    │ │button    │ │button    │ │          │ │          │
└────────┘ └──────────┘ └──────────┘ └──────────┘ └──────────┘ └──────────┘
                            │            │
                      ┌──────────┐ ┌──────────┐
                      │3.1. Select│ │4.1. Select│
                      │the       │ │the       │
                      │Ingredients│ │Ingredients│
                      │to add    │ │to exclude│
                      └──────────┘ └──────────┘
```
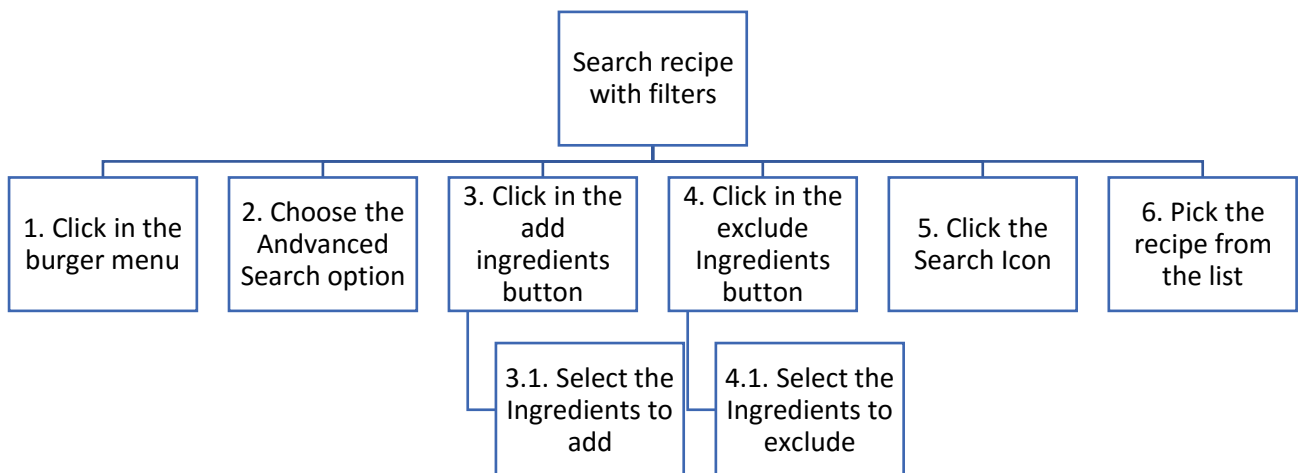
Task Scenarios:

I. Antony was walking by the street, then suddenly he started getting hungry, Antony reached in his pocket and grabbed is phone, opened an app and started to search for a chicken recipe because Antony loves chicken. Antony found the perfect recipe and opened it to check if he had all the necessary ingredients to make this recipe, he found that he didn't have chicken in his inventory so, Antony went to the nearest supermarket to buy the missing ingredient and finally Antony went home and started making the recipe. Suddenly a doubt occurred in Antony's mind so he started to watch the video in the recipe page to help him out.

II. John was home when he remembered he had almost no food left, so he went out for groceries, after buying the monthly groceries he decided to add the considerable sized list of products to his app, so John used the QR code included in the invoice, and now he has an up-to-date list of products in his inventory.

III. Abby is a mother of four and as if being a mother of four is not hard enough, Abby`s kids are very picky with their food and it`s time for dinner, but Abby knows lucky for her that she can use the app to filter out the foods her kids don`t like, so she gets the app and uses it to find a recipe that her kids will like and follows the steps to cook a wonderful meal for everyone, the dinner is saved once again.

IV. Mark was feeling bold, he wanted to surprise his girlfriend with a fancy meal. Mark reached to his favorite app to help him. After Finding the perfect recipe for him and his girlfriend, he realized he was missing some ingredients. He quickly added them to his shopping list, straight from the recipe page. Later he went to the supermarket, to buy the missing ingredients, Mark's memory isn't what it used to be but thankfully the app kept the Shopping list for him to remember. After the purchase, he scanned the invoice so he could update his inventory and shopping list. Thankfully he has this app that makes his life so much easier.