A picture containing text, clipart

Description automatically generated

**Interação Pessoa-Máquina**

**2023/2024**

**CartGuru**

Stage 2: User and Task Analysis

Uma imagem com clipart, emoticon, sorriso, desenho

Descrição gerada automaticamente

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**Problem Description**

Shopping for groceries can get quite expensive these days, as such our team wants to build a mobile application that helps users compare the prices of items they want to buy in nearby supermarkets and avoid food waste, as it is money not well spent and may encourage restocking.

**User Analysis**

The target users for our app would probably be people who are interested in saving some money when they go buy groceries and also people who don’t want to waste their food.

The main characteristic of this population would be the age range from 10 to 60 years since this is the demographic most capable of using mobile devices with some easiness. This is also the population that has enough physical abilities to go to a store and enjoy the help from our app.

There are no gender or ethnicity restrictions for using the app, even though we can predict that there will be a bigger number of female users using the application in comparison to other genders.

The age range of the target users automatically restricts their education level, meaning, that the users would have enough knowledge to write and understand basic math while using the app.

The target audience would not need any prior experience in the domains of economics or logistics to use the application.

We would like to also add that the target demographic probably lives more in an urban environment in comparison to a rural one based on the fact that there is a difference in the number of stores in those areas where he can use our app.

The user class that we mainly want to target is the shopper, being a frequent one or a sporadic one. We also want to target the organized user, meaning, the user that uses the app for keeping track of the expiration dates of the stuff on their pantry.

**Task Analysis**

Task 1 - Search for a product near you

* Objective: Search for the closest shop around your area selling a specific product
* Pre-conditions:
  + Have connection to the internet on the device being used
* Sub-tasks:
  1. Go to the map tab
  2. Open search menu by taping the search bar
  3. Write the name of the product you want to search
  4. Sort the list by distance, if it isn’t the default
  5. Chose the first item on the list
* Exceptions: There isn’t a registration of a shop selling the product in the app

Task 2 - Add registry of a new product

* Objective: Add a registration of a product in the app
* Pre-conditions:
  + Have connection to the internet on the device being used
  + Have geolocation active on the device
* Sub-tasks:
  1. Go to the add product tab
  2. Fill in the information about the product that you are adding
  3. Add the location of the shop that is selling the product
  4. (Optional) Add a photo of the product
  5. Confirm that the info is correct and submit it.
* Exceptions:
  + The information inserted was not correct
  + Creation of duplicatesTask 3 - Add registry of product expiration date
* Objective: Add registry of a bought product expiration date
* Pre-conditions:
  + User must have bought a product
* Sub-tasks:
  1. Go to the pantry tab
  2. Click the add button
  3. Fill in the information about the product that you are adding
  4. (Optional) Add a photo of the product
  5. Submits the info
* Exceptions: None

Task 4 - Remove product from cart

* Objective: Remove searched product from cart list
* Pre-conditions:
  + User must have added an item to the cart
* Sub-tasks:
  1. Go to the map tab
  2. Click the cart button
  3. Sort the list by last added, if it isn’t the default
  4. Search for the item that you want to remove from the list
  5. Click the minus button
* Exceptions: None

**Scenario design**

Scenario 1 - Ms. Janne is searching for bread in her way home from work.

Ms. Janne pulls her phone out, checks if she got internet, goes into the app, searches for the word “bread”, finds a close supermarket with her favorite bread, adds the item to the cart and checks the map for directions to the shop.

Scenario 2 - Mr. Samuel wants to share the price of a new chocolate bar he just found.

Mr. Samuel pulls his phone out, checks if he got internet, checks if his geolocation is active, goes into the app, goes to the product tab, fills all the information about the amazing chocolate bar, adds the location of the shop, adds a cute photo of the item, confirms that the info is correct and submits.

Scenario 3 - Mr. Ruy wants to add the expiration date of his caramel nuts to the app.

Mr. Ruy recently bought caramel nuts. He pulls his phone out, goes into the app, goes into the pantry tab, fills all the information needed about the nuts, adds a photo of the front of the nut sack and submits.

Scenario 4 - Ms. Janne wants to remove bread from her shopping list.

Ms. Janne has already added bread to her app cart. She pulls her phone out goes into the app, goes into the map tab, clicks the cart button, sorts the list by last added, finds that bread is the first on that list and clicks the minus button.