



NOVA SCHOOL OF
SCIENCE & TECHNOLOGY

Interação Pessoa-Máquina

2023/2024

CartGuru

Stage 3: 1st prototype



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Lab class Nº P1

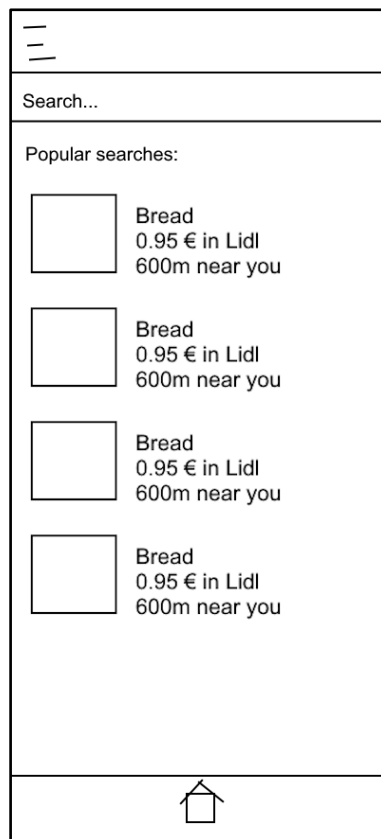
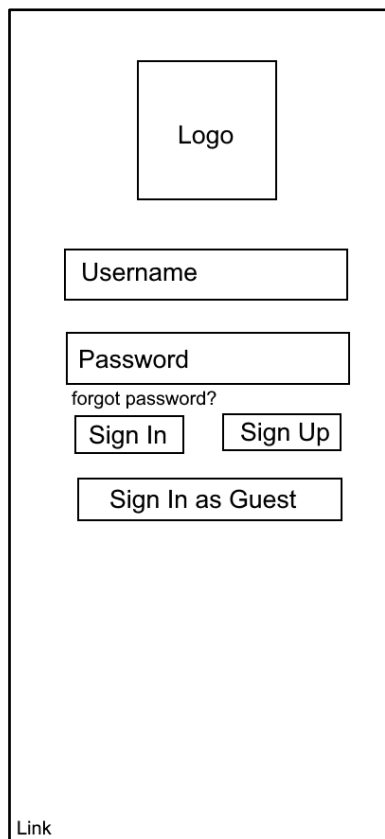
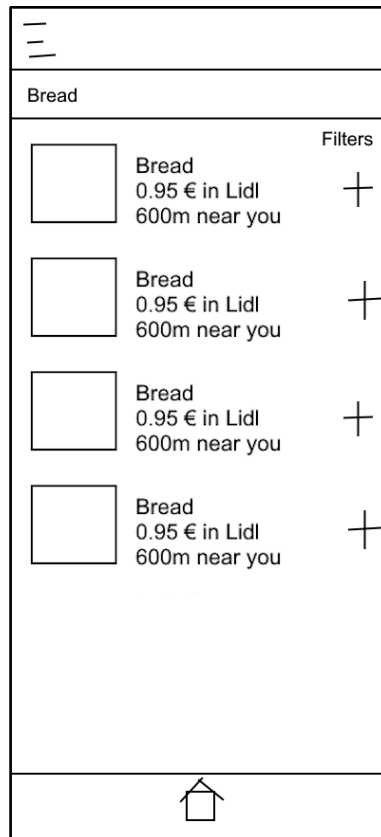
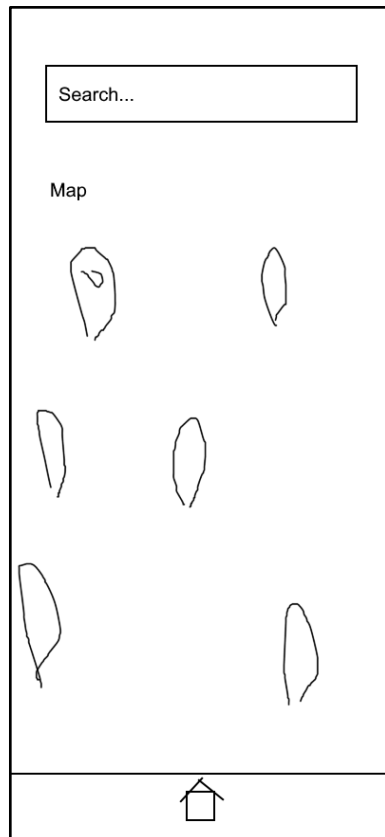
Group Nº 3

Professor:
Teresa Romão

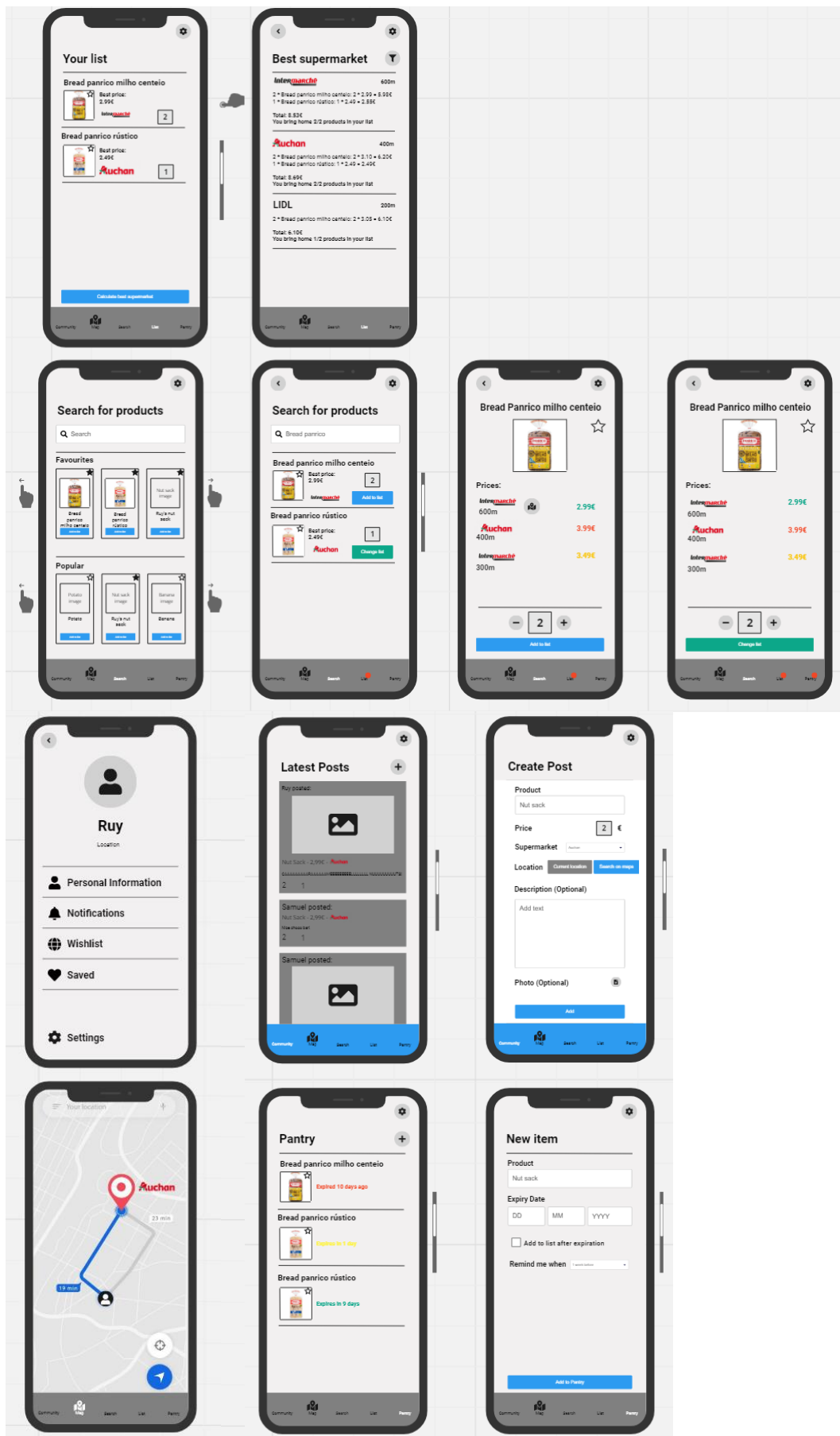
Month 10, 2023

Sketches

Our first sketches were made using paint:



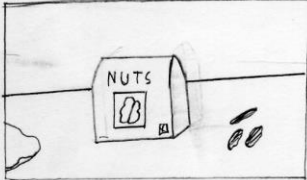
Our second sketches were made using an online tool called miro:





Prototype photos






Community ⊕

Ruy posted:



Nut Sack - 2,99€ - Auchan
Caramel nuts are so...

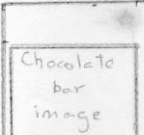
2  1 


Community Map Search List Pantry

Search for products


Popular








Chocolate bar
Add Item



Water bottle
Add Item




Shampoo
Add Item

Community Map Search List Pantry

Search for products






Bread



Best price:
2.49€
Auchan

⊖ ⊕

Add to list

Community Map Search List Pantry

Create Post


Product






Price €

Supermarket

Location

Description(optional)

Photo(optional) 

Community Map Search List Pantry

Community

Samuel posted:
Chocolate Bar Kitkat
1,00€ - other
in MiniNova






 

Ruy posted:



 Community
  Map
  Search
  List
  Pantry

Pantry

 Community
  Map
  Search
  List
  Pantry

New item

Product

Nut sack

Expiry Date

31 12 2023


☒ Add to list after expiration


Remind me when 1 week before ▼

Add to Pantry






 Community
  Map
  Search
  List
  Pantry

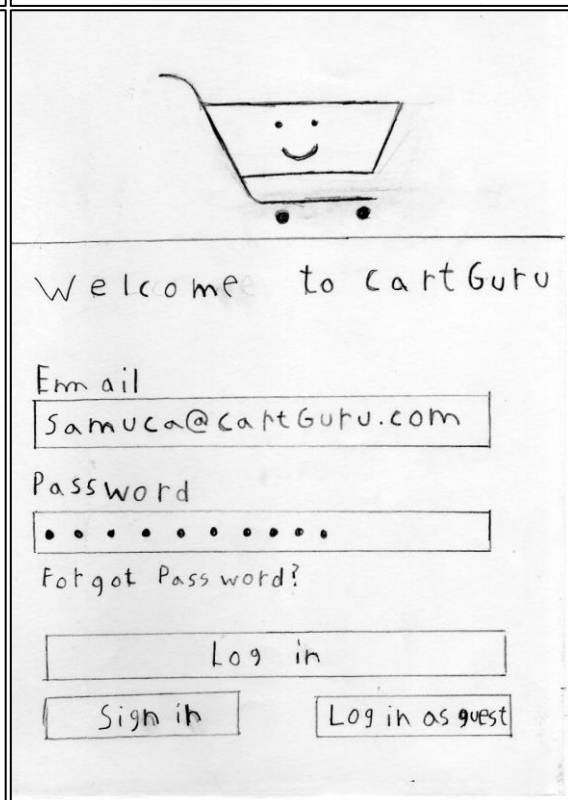
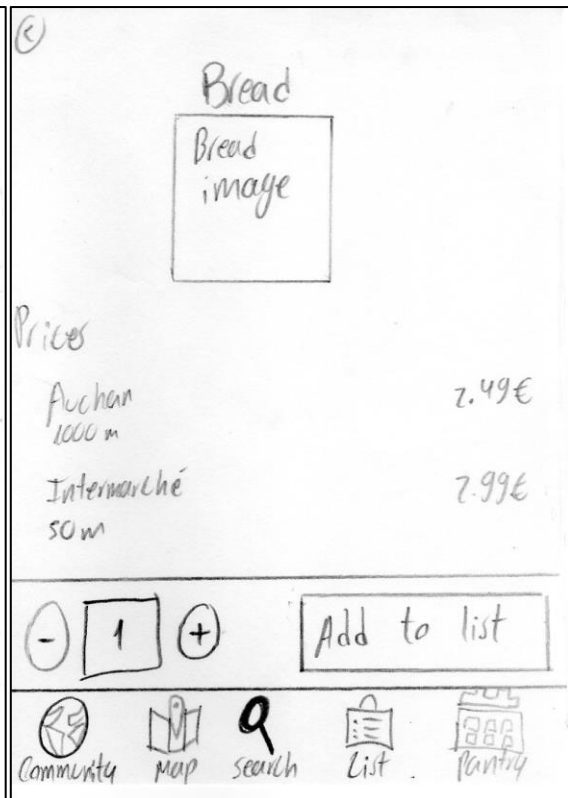
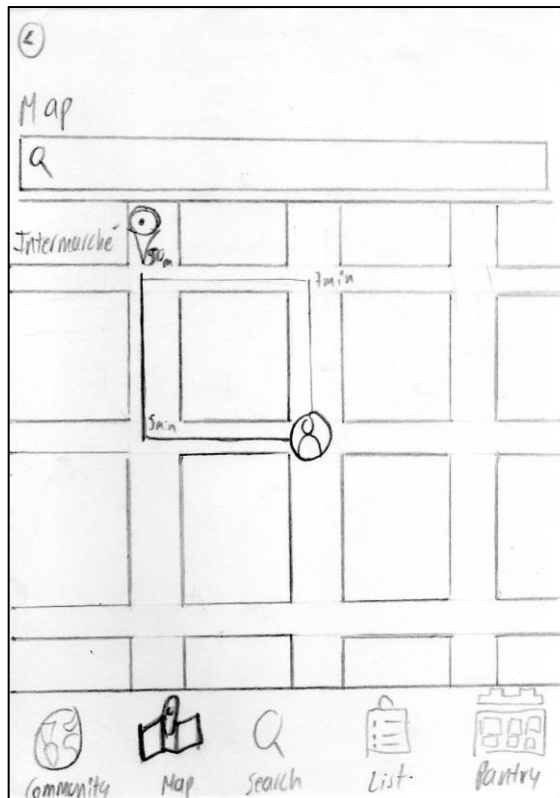
Pantry

Caramel nuts 



Expires in 10 days

 Community
  Map
  Search
  List
  Pantry



Welcome to CartGuru

Name*

Email*

Password*

Password - Confirmation*

☐ Term and Condition

Sign up

login if you have an account

Your list

Bread

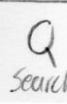


Bread
image

Best price:
2.49€
Auchan

- 1 +

Calculate best supermarket



Your list

€

Best supermarket

Auchan

1000m

1 Bread: 1*2.49€ ————— 2.49€

Total: 2.49€

1/1 products in your list



Intermarché

50m

1 Bread: 1*2.99€ ————— 2.99€

Total: 2.99€

1/1 products in your list



Community



Map



Search



List



Pantry



Community



Map



Search



List



Pantry

Bread

Bread image

Prices:

Auchan

1000m

2.49€

Intermarché

50m


2.99€

-


0

+


Add to list




Community




Map



search



List



Pantry

Search for Products

Q Bread

Bread

Bread image


Best price:
2.49€
Auchan

-


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
Add to list




Community




Map



search



List



Pantry

Briefing

Our app, CartGuru, was created with the purpose to give our client the necessary information to make conscious decisions with their purchases in what supermarket. The app has the feature to create a shopping list and find the best supermarket according to the user's criteria, for example location, price, etc. It's also important to note that the prices get update via a well-established community. Finally, we also have another feature to track expiry dates and receive notifications before your products get spoiled.

Scenarios

Scenario 1

Mrs. Jane was on her way home after work thinking about what she could make for dinner, she immediately thought of making açorda, however she remembered that her husband and kids ate toasts with the remaining bread for breakfast. The store she usually goes to is quite far from her way home, so she decides to try CartGuru, a mobile app she recently downloaded, that lets her find products at the best price nearby. Mrs. Jane is in a hurry, so she wants to find the route to a store that sells bread within 50 meters of her current location.

Scenario 2

Mr. Samuel is an avid CartGuru user, so he already has an account and frequently interacts with the community. A few days ago, he saw a post in the community of a chocolate bar he never tried, so while he was shopping, Mr. Samuel went to the chocolate aisle and found out it was even cheaper in his supermarket of choice. To alert other users, Mr. Samuel decided to share it on CartGuru.

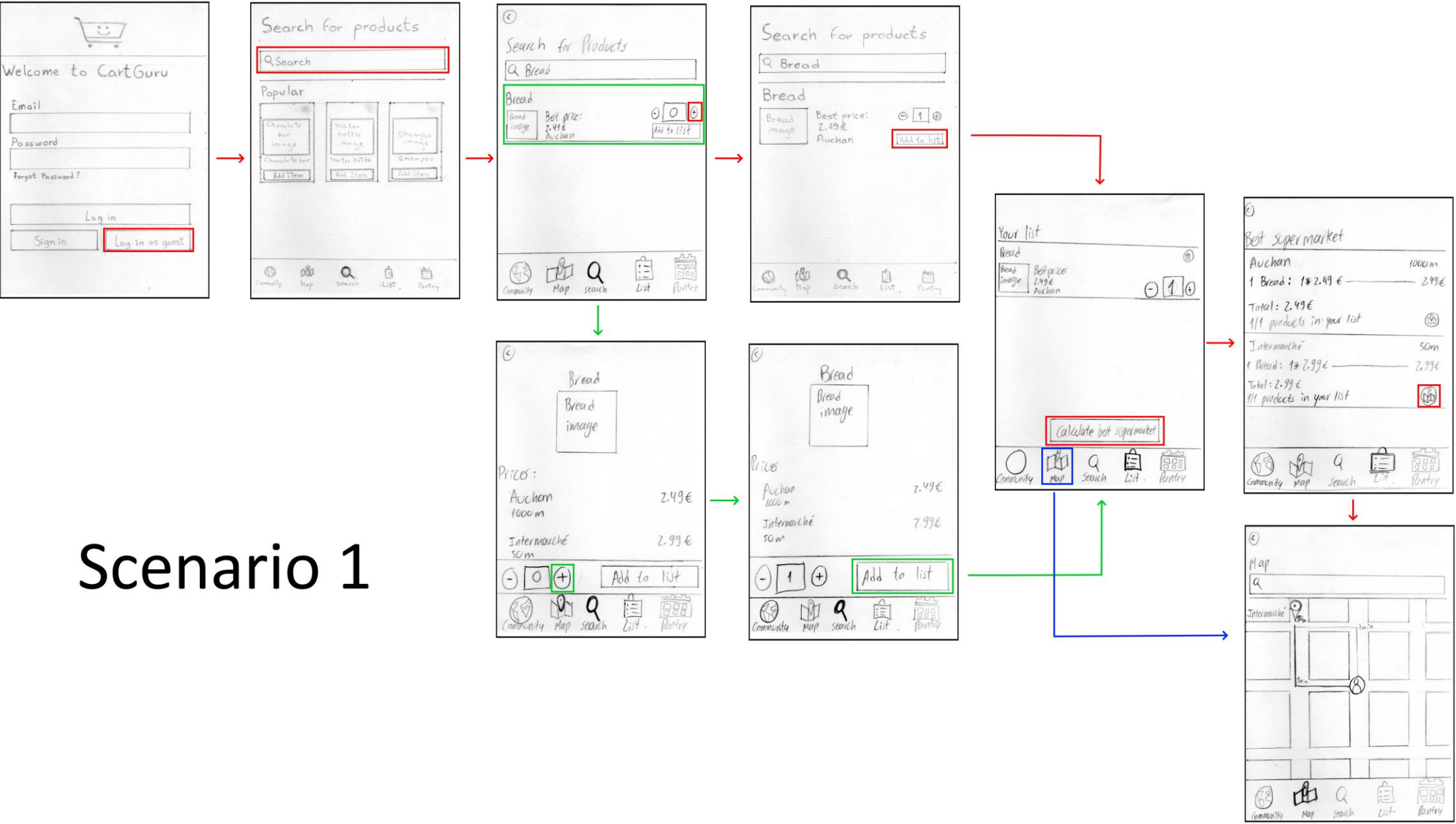
Scenario 3

Mr. Ruy loves caramel nuts, and the last time he went to the supermarket he overbought them as they were on sale, but, unfortunately, he couldn't eat all the nuts within the expiry date. Mr. Ruy told this story to a friend of his, Mr. Samuel, which in turn recommend him CartGuru to take note of expiry dates and receive notifications to avoid it. Mr. Ruy listened to Mr. Samuel's advice and the next he bought a nut sack and he registered the product's expiry date in the app

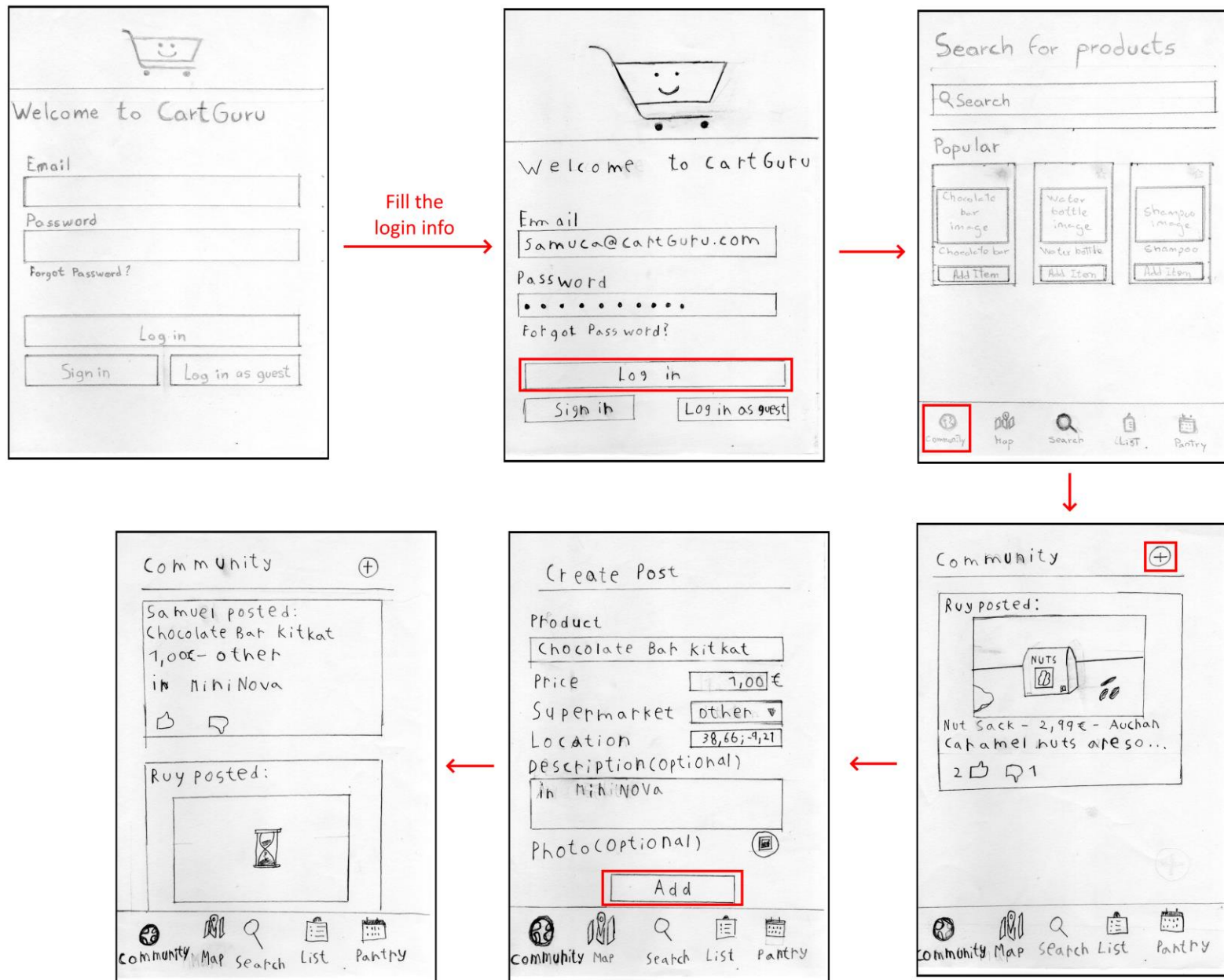
Mrs. Jane after eating an amazing açorda realized how useful the app was, she decided to explore the app a bit more, but soon realized she hadn't deleted the bread entry from her shopping list, which she doesn't need anymore.

Storyboard

The following images show the work flow of the app to do relevant tasks associated with the scenarios described above.

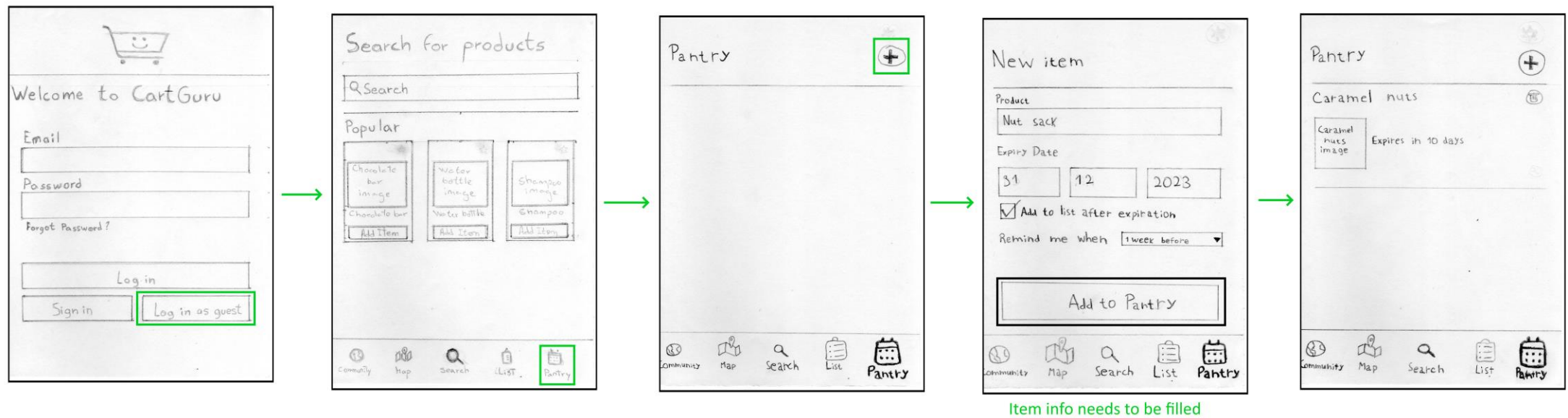


Scenario 2

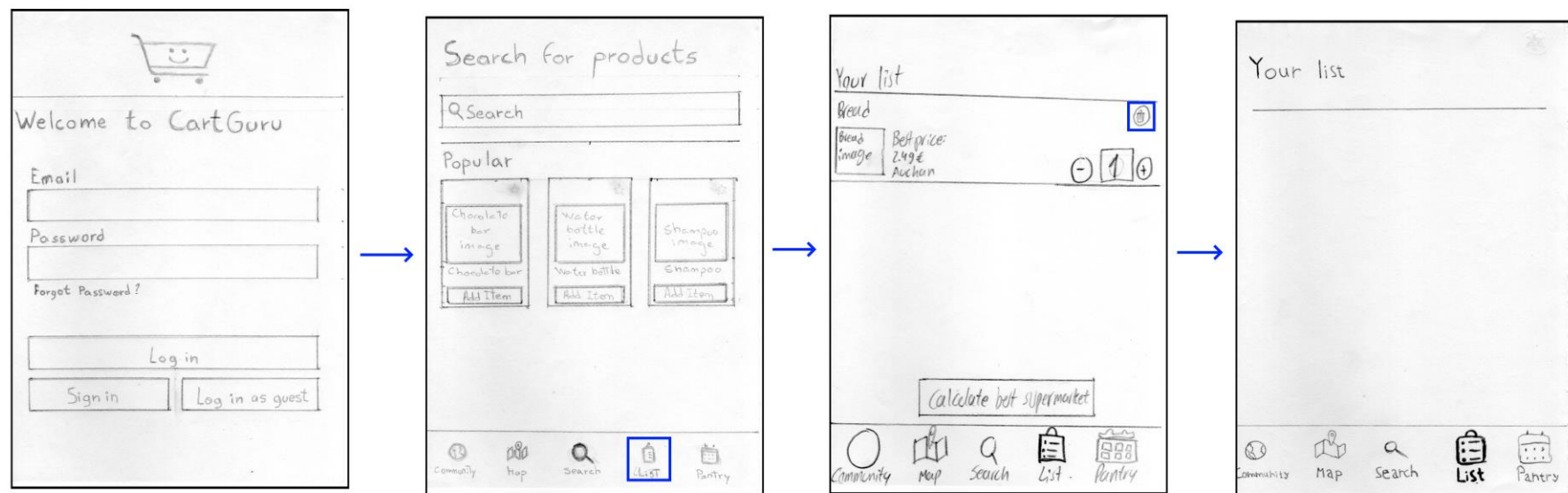


Post info needs to be filled

Scenario 3



Scenario 4



Observations

Scenario 1

All the users that tested our app had trouble with this scenario, specifically what to do after logging in, to either use the search bar, go to the list tab or even the map tab. In some cases, the users chose the list tab or the map, which does not bring them a step closer to completing the scenario. This means that there are too many tabs in the bottom navigation bar and the default page is not the best option. To solve this problem, we need to consider a better default page, for example the list tab instead of the search, which would be removed completely.

No user tried to click the item entries in the search tab to get more information about a given product. To solve this problem, we might need to add a button that signifies more information.

Most users before adding a product to a list did not increment the unit counter, which starts at zero. A possible solution could be to replace the add to list button with the counter buttons and a delete button once the user added an item to the list.

Scenario 2

This scenario was easier to understand for the users, however some doubts still surfaced, specifically two users thought it was needed to add a product to the list before posting the price on the community. Once again, this problem is related to the search bar which is the homepage. The same solution mentioned in the scenario 1 could solve the problem.

Scenario 3

All users completed this scenario correctly at first try.

Scenario 4

This scenario was completed with ease by almost all users, however one user intuitively thought that after calculating the best supermarkets all items would be removed from the list and migrate to the pantry. To solve this problem there could be a button in the list tab that would send all entries to the pantry tab so that the user doesn't need to add them one by one, only needing to confirm the expiration date.

Suggestions provided by the users:

- Filters in the shopping list functionality.
- Be able to search for supermarkets.
- Favorite supermarkets.
- Write sign-up instead of sign-in.
- Receive a confirmation after adding an item to the list.