NOVA NOVA SCHOOL OF
SCIENCE & TECHNOLOGY

Interação Pessoa-Máquina

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FreezApp

Stage 6: Evaluation results and presentation of the final project

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No.	Problem	Heuristic	Description	Severity	Proposed Solution	Implemented Solution
1	**Empty homepage shows no message**	System status visibility	The homepage, when there are no items, appears completely empty, without any indication. The user is left wondering if it's an error, if it didn't load, or if there really are no items.	3	Display a message such as: "No items in the refrigerator".	Short information about empty fridge on homepage.
2	**Inconsistent and error-prone units**	Error prevention	The system allows entering quantities with inconsistent units (e.g., "3 apples in L") because it does not validate the unit type according to the item category.	4	For each category (meats, fruits, drinks, etc.), associate valid units (kg, pieces, L) and prevent incorrect combinations.	[NO CHANGE] Justification: We don't think that this is necessary. It could introduce potential problems in case of weird products that can be in different states.
3	**The "Add item" button does not work after setting up a profile**	Control, freedom, and consistency	After setting up a profile in the settings, when trying to add an item, the button stops redirecting and does not add owners. The flow gets blocked.	4	Fix the navigation bug; ensure the owner is loaded; allow adding items even after initial setup.	Fixed error in backend resulting in this behaviour

4	**Possibility to enter previous dates**	Error prevention	The system allows you to enter expiration dates that are earlier than the current date, which is generally undesirable and creates inconsistencies.	3	Block dates prior to the current date and display an error: "The date must be after today".	The expiration date now has a minimum allowed value.
5	**Increasing quantity doesn't work well**	Consistency and standards 27	The "+" button only adds a digit visually (e.g., transforms 1 into 11), but does not increment the actual value. The "-" button works correctly. 28	3	Correct the increment function to increase numerically (1 $\rightarrow$ 2 $\rightarrow$ 3...). Validate the field after increment. 30	Fixed error related to incorrect handling of Javascript data types.
6	**Lack of functionality for removing used ingredients**	Real-world compatibility and flexibility	The user can add ingredients, but there's no easy way to indicate that they've already been used (removed from the refrigerator).	2	Add a "Remove" or "Used" button to the item to automatically update quantities or remove it.	Added swipe gesture to quickly delete or add product.
7	**Changing fridges requires clicking the app logo in the corner**	Consistency and Standards	On the fridge's main page, the only way to switch to another fridge is by clicking the small app logo in the corner. Users do	3	Add a clearly labeled option such as "Change Fridge" or "My Fridges"	Changed app logo to "home icon"

| | | | not usually associate a logo with changing contexts, making the feature hard to discover and unintuitive. | | to the page. | |

No.	Problem	Heuristic	Description	Severity	Implemented Solution
1	**No message in "generate meal" page with empty fridge**	System status visibility	**There is no clear indicator that there is no products to select on "generate meal" page**	2	**Added short message in case of empty fridge**
2	**Missing errors in case of backend failure**	System status visibility	**There is no information provided to a user about errors during some actions that use the backend.**	3	**Added response information about action status - success or failure**
3	**Missing feedback during meal generation process**	System status visibility	**There is no clear feedback to a user after pressing "Generate Meal" about a state of a generation process resulting in irritation and uncertainty about**	2	**Added waiting animation**

			the result.		
4	**Display problem in some browsers on some phones**	Consistency and standards	**Mobile browsers behave inconsistently resulting in different element layout in case of dynamic elements like search box that can show up or hide. On some browsers like Firefox search box obscure some elements of a page.**	2	**Refactored CSS to use the dvh unit on affected components to incorporate dynamic behaviour of a mobile browser.**