

Controlling IKEA with a Multimodal Interaction System



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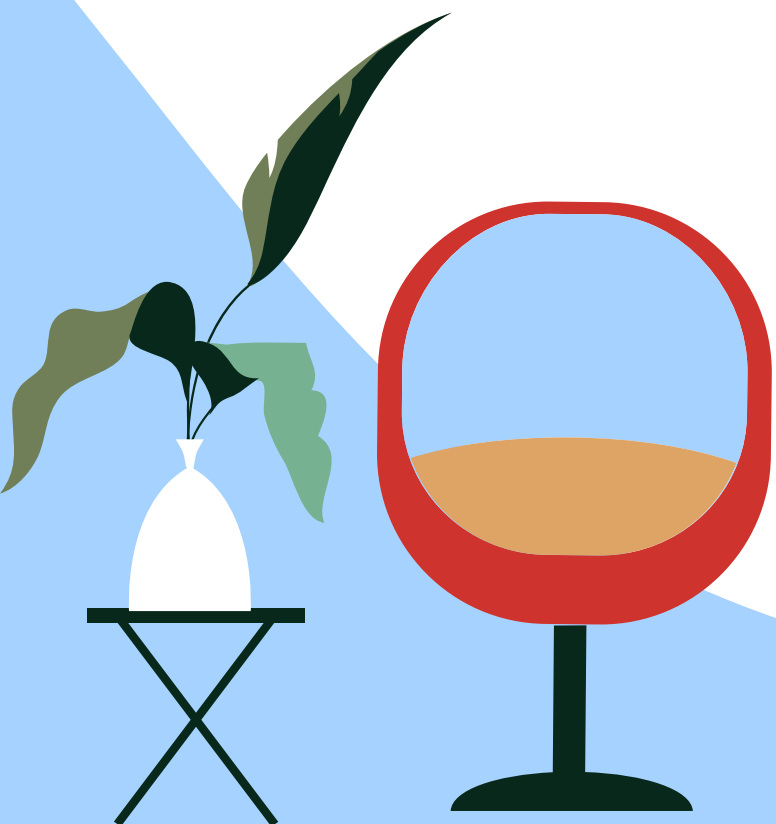
Architecture

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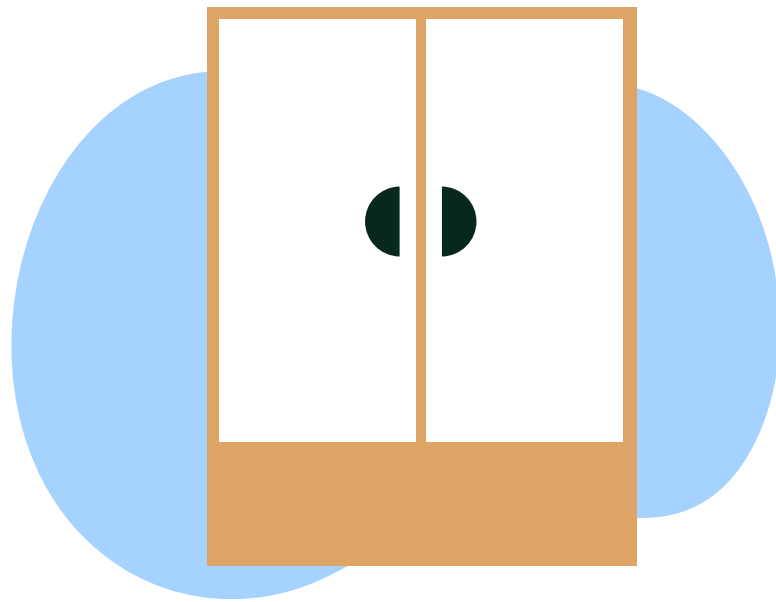
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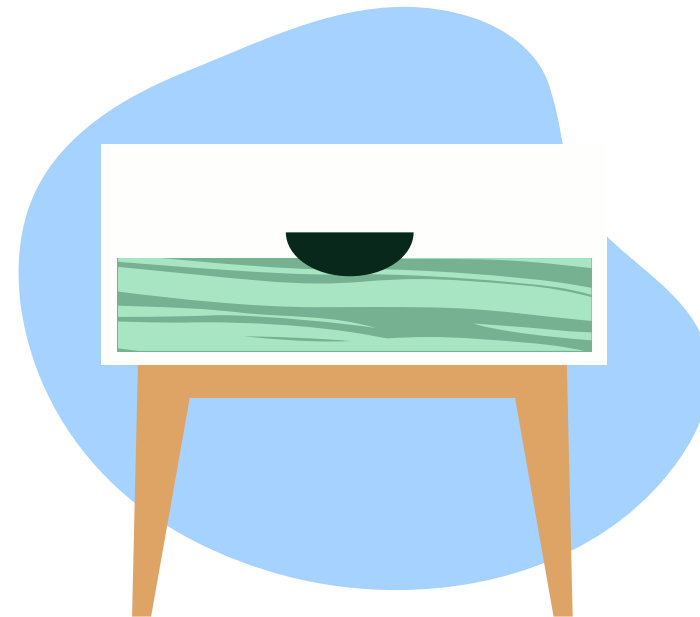
Introduction

01



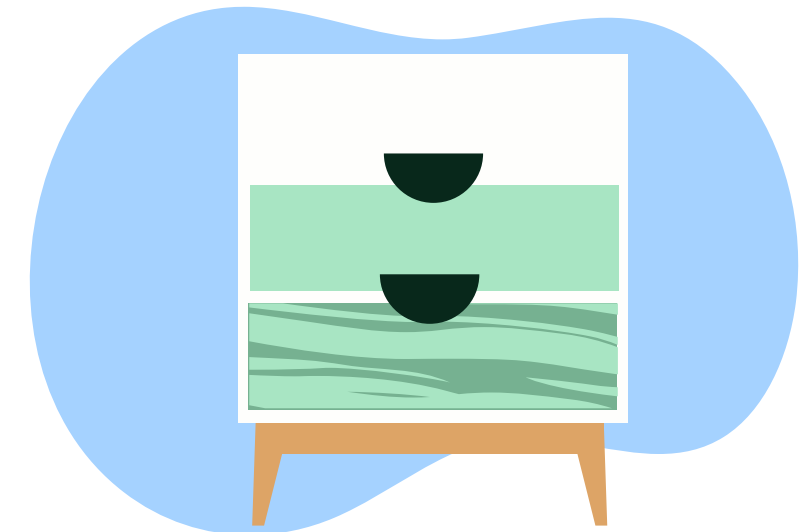
Seamless online shopping through multimodal input

02



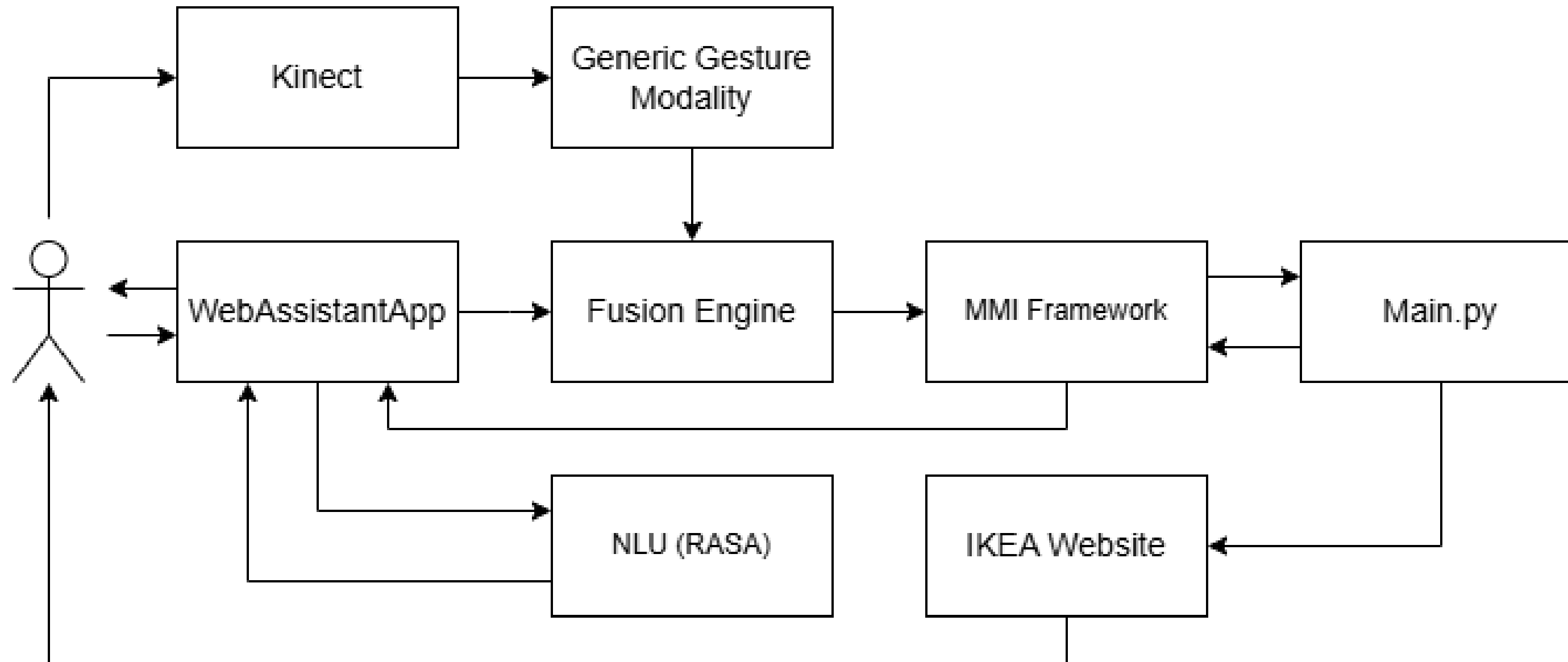
Leverage Microsoft Kinect for precise gesture-based control

03

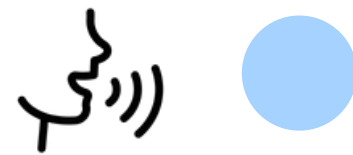


Improve User Experience

ARCHITECTURE

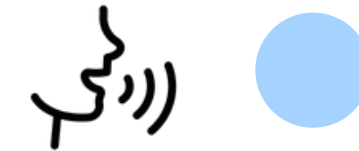


SINGLE INTERACTIONS



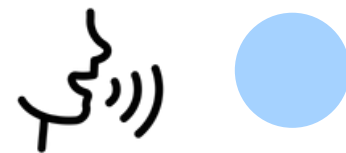
Open Site

Open IKEA Portugal
website



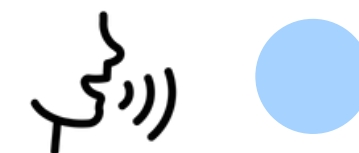
Add to Cart/Favorites

Add a specific product
to the cart/favorites list



Search

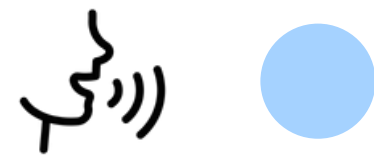
Search for a product in
the website.



Show Cart/Favorites

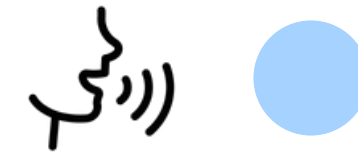
Show the cart/favorites
list

SINGLE INTERACTIONS



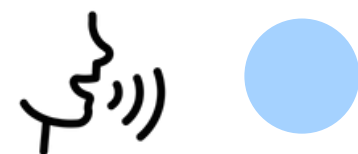
Show More

Show more
informations



Finalize Order

Starts the process of
finalizing the order of
what is in the cart



Filter

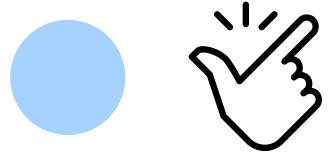
Applies filters to
products on the page



Help

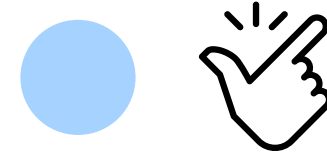
Open a webpage with all
the voice and gestures
commands

SINGLE INTERACTIONS



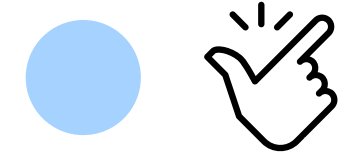
Move Up

Moves the selected
area up



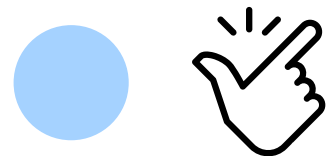
Move Down

Moves the selected
area down



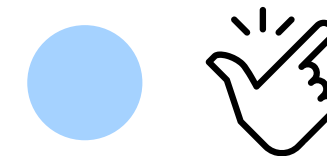
Close Website

Closes the IKEA's
Website



Move Right

Move the selected area
right



Move Left

Move the selected area
left

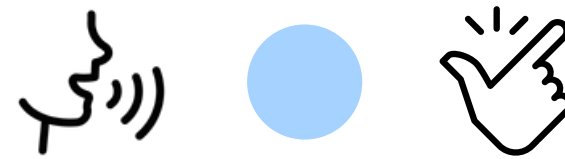
Redundancy

INTERACTIONS



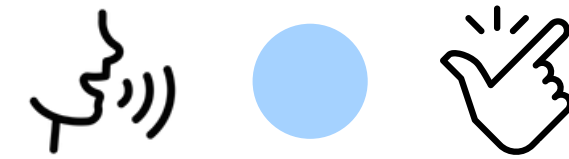
Scroll the Page

Scroll the pages Up or Down



Go Back

Go to the previous page in the website



Main Page

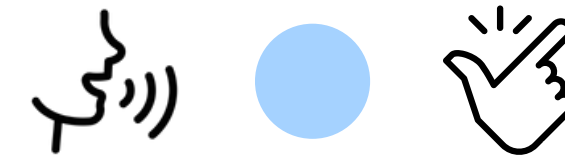
Go back to the homepage

Complementary **INTERACTIONS**



Remove Cart/Favorites

Remove a specific
product from the
cart/favorites list

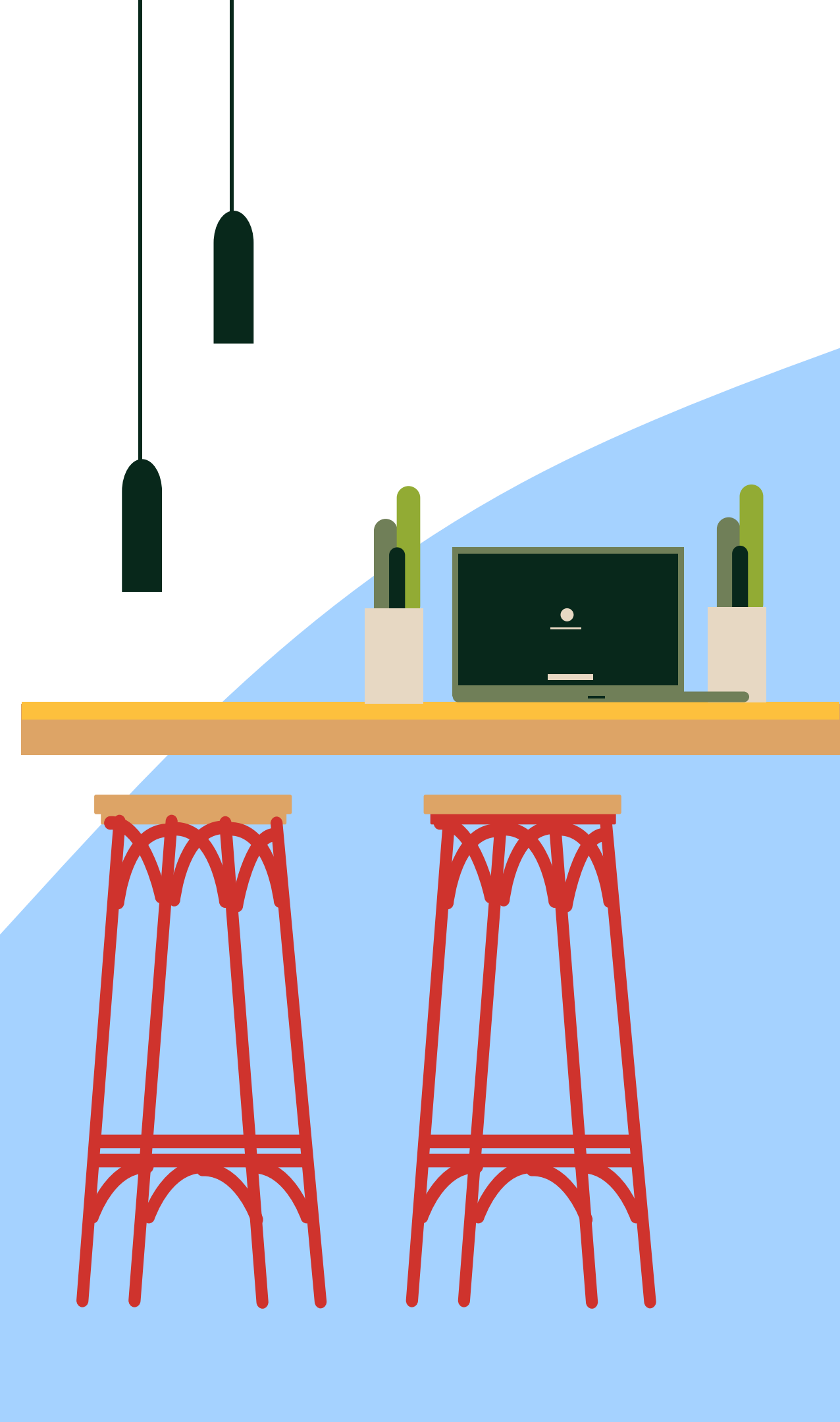


Select

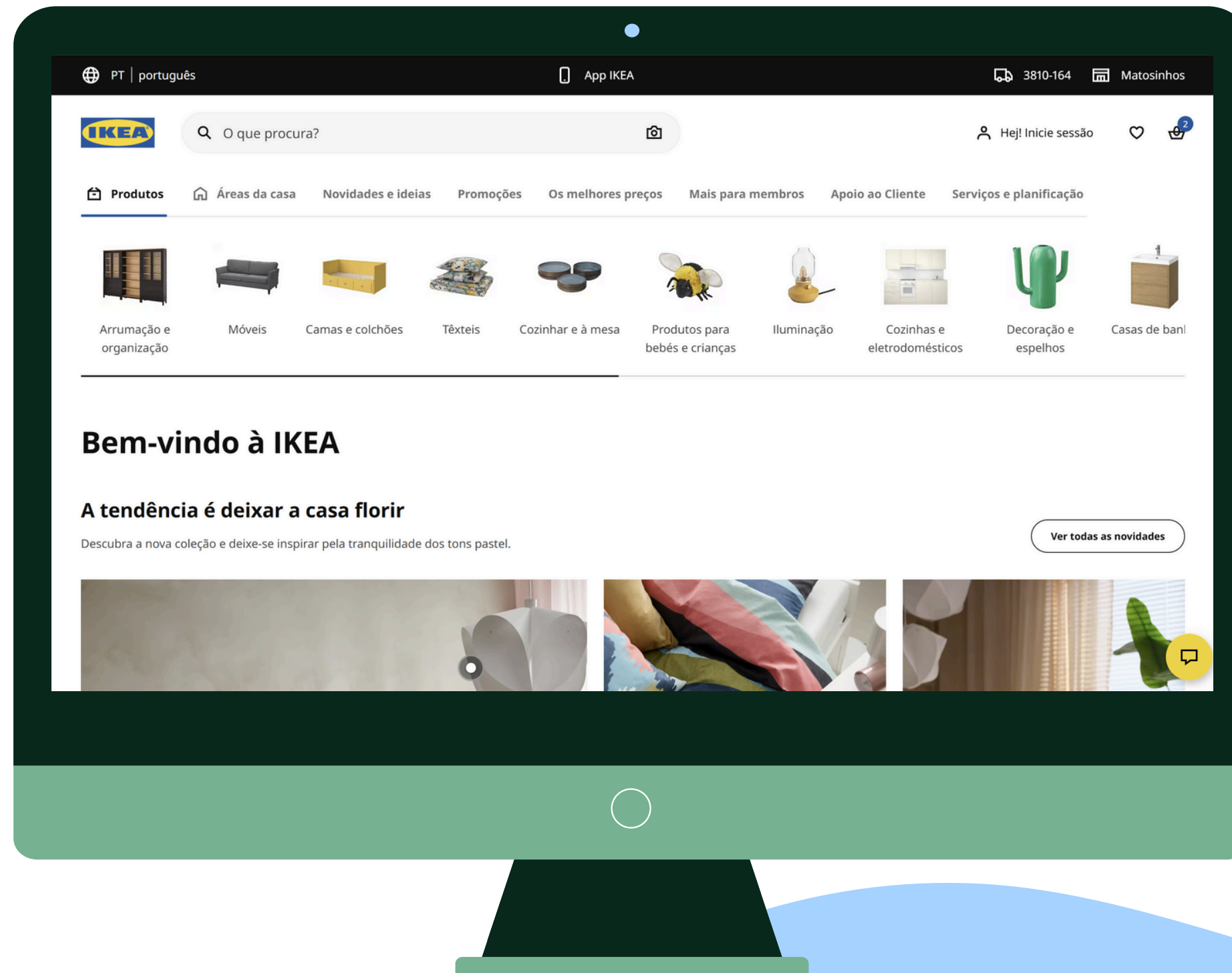
Select something
highlighted in the
website

SYSTEM FEEDBACK

Voice is used to provide information to the user about what is happening on the site.



Let's go Shopping



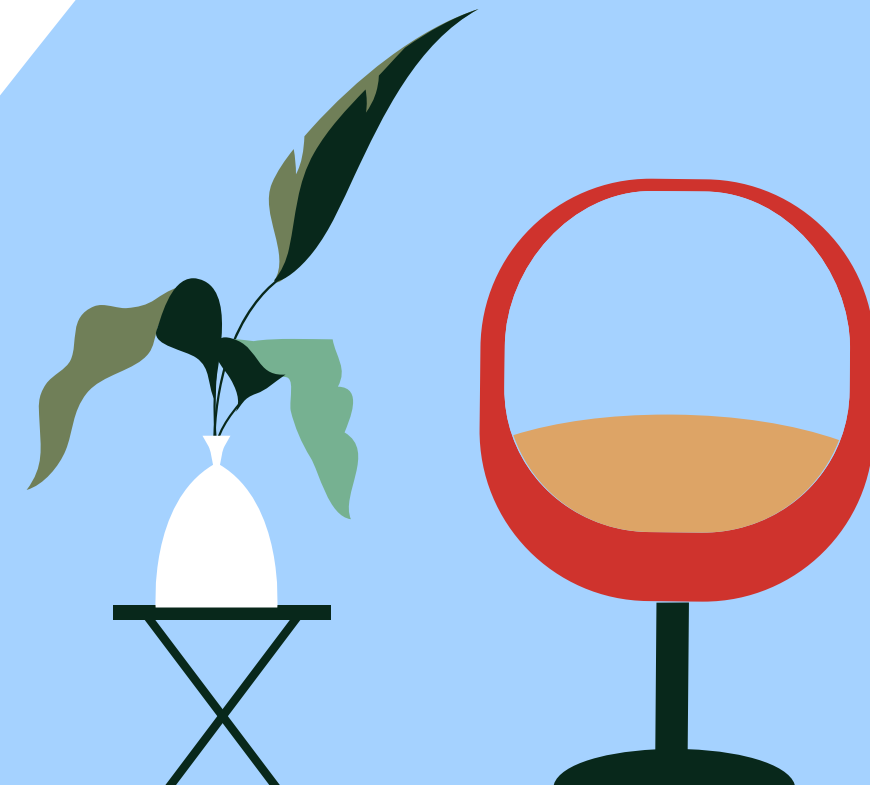
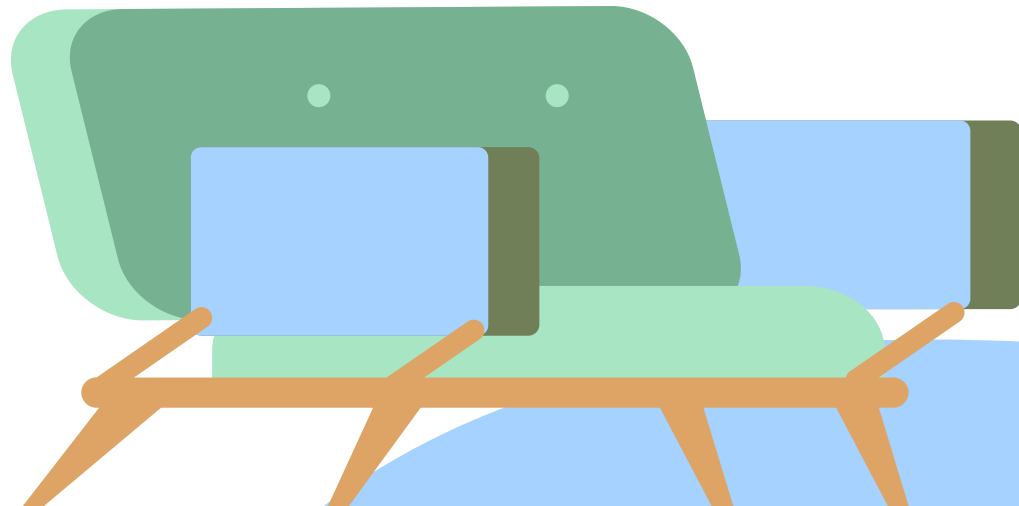
Summary

Gestures

11 Positions
15 Videos
Positives (+/-10)
+/- 5 False Positives

Voice

9 Intents
+/- 12 Phrases



THANKS!

Do you have any questions?

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