

# Wish Where is Home

## Projeto em Informática

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Milestone 2: Elaboration phase  
Group 7



deti

universidade de aveiro  
departamento de eletrónica,  
telecomunicações e informática





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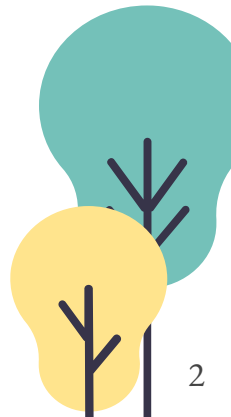
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Design implementations for the platform

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Dates and tasks for the project



# THE TEAM



Cristiano Nicolau  
DBAdmin



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SCRUM master



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Architect



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Advisor

# CONTEXT AND STATE OF THE ART

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**HEALTH**

Health services, Water quality,  
Pollution

**EDUCATION**

Schools and Access to  
education

**ENTERTAINMENT**

Leisure places and  
cultural events

**ENVIRONMENT**

Green spaces and  
access to natural  
resources

Goal: Integrate indicators into our platform to offer a comprehensive perspective on quality of life, adjustable to individual preferences.

Challenges: Free data limitations; prioritization based on questionnaires.

Impact: Facilitate the choice of areas of residence based on a detailed and personalized assessment of quality of life.

	Idealista	Imovirtual	ERA	Zillow	Realtor	WisH
Physical aspects of the property	✓	✓	✓	✓	✓	✓
Choose district/ municipality from the map	✗	✗	✗	✗	✗	✓
View	✗	✗	✗	✓	✓	✓
Establishments nearby	✓	✓	✓	✓	✓	✓
Parking spaces	✗	✗	✓	✓	✓	✓
GreatSchool Ranking	✗	✗	✗	✗	✓	✓
Air quality, fire risk factor, floods	✗	✗	✗	✗	✓	✓
TransitScore, BikeScore or WalkScore	✗	✗	✗	✗	✗	✓
Portuguese	✓	✓	✓	✗	✗	✓

# REQUIREMENTS GATHERING

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## QUESTIONNAIRE

86 responses

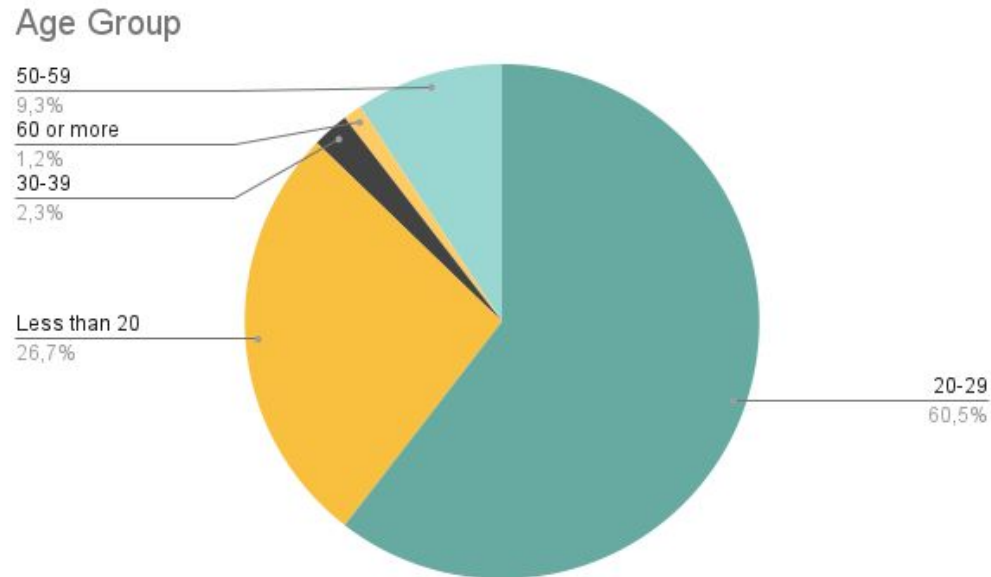


Figure 1 - Age Group



## QUESTIONNAIRE

How difficult did you find your experience when searching for residency in an unknown area? \*

Very Easy      1      2      3      4      5      Very Difficult

☐      ☐      ☐      ☐      ☐

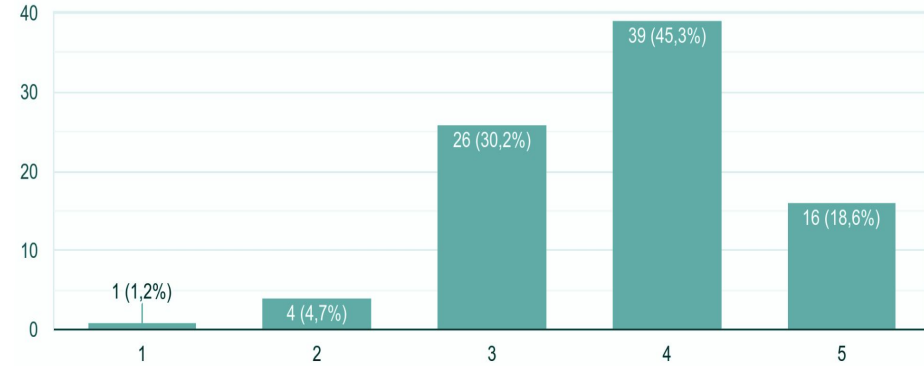


Figure 2 - Difficulty

Overall satisfaction with the real estate search apps/websites? \*

Very Unsatisfied      1      2      3      4      5      Very Satisfied

☐      ☐      ☐      ☐      ☐

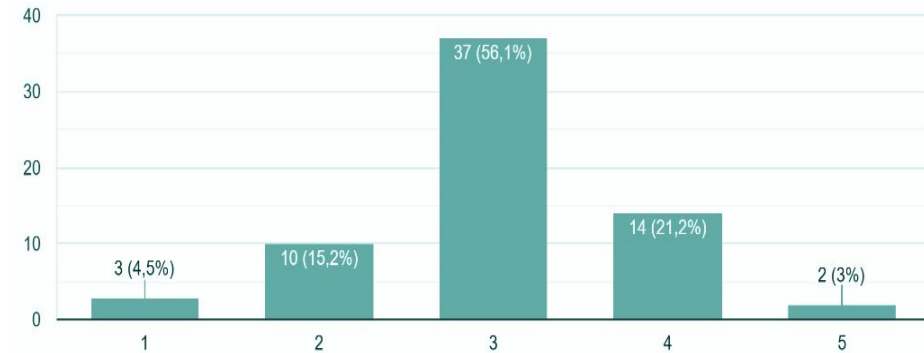


Figure 3 - Overall Satisfaction

## QUESTIONNAIRE

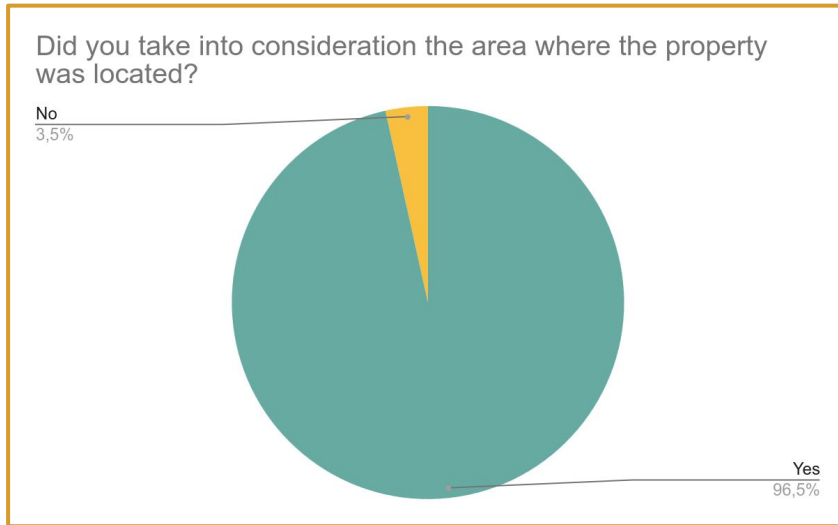


Figure 4 - Area Consideration

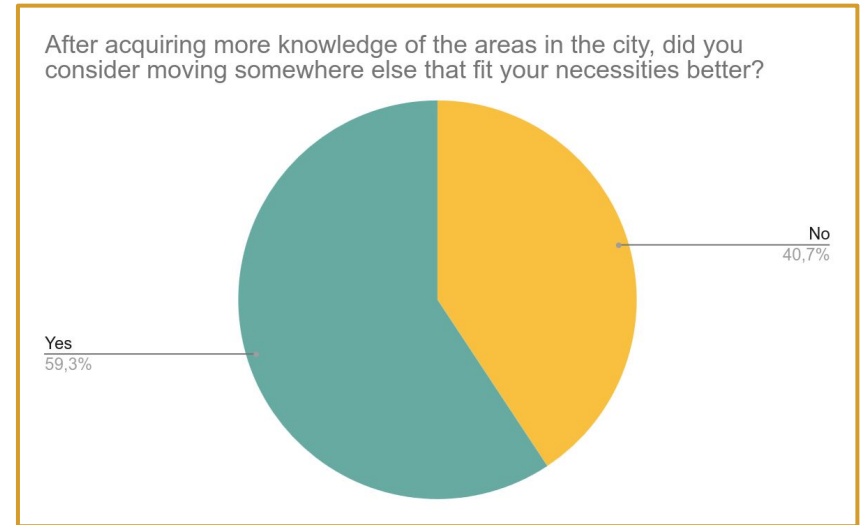


Figure 5 - Move Areas

## QUESTIONNAIRE

What are the biggest challenges you've encountered when searching for housing?

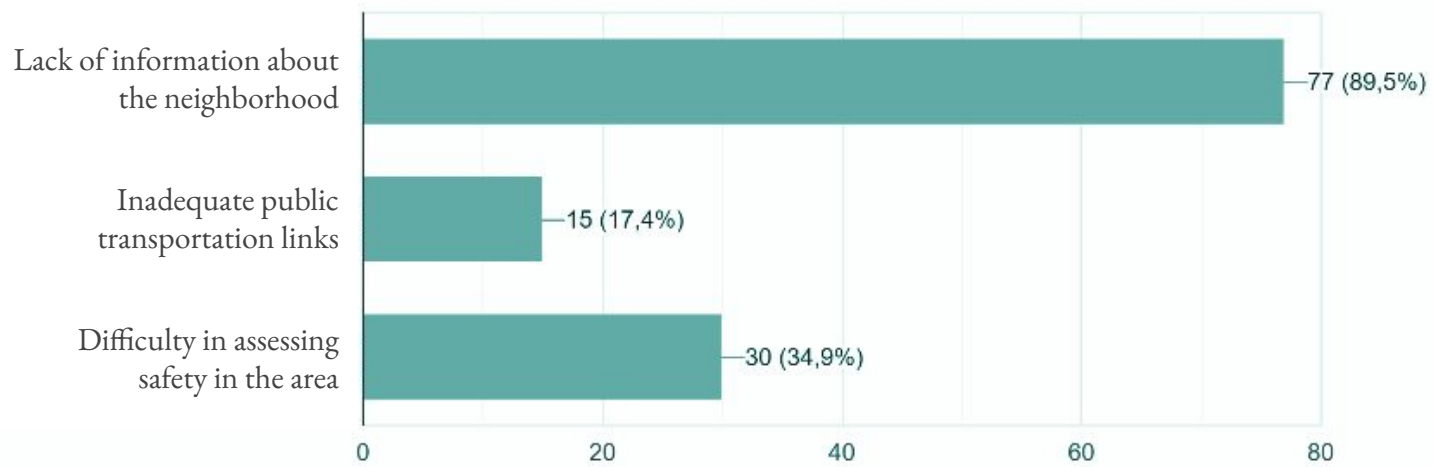


Figure 6 - Challenges

## QUESTIONNAIRE

How important are the following factors in choosing the area/community where you want to live?  
(1-Not Important / 5-Very Important)

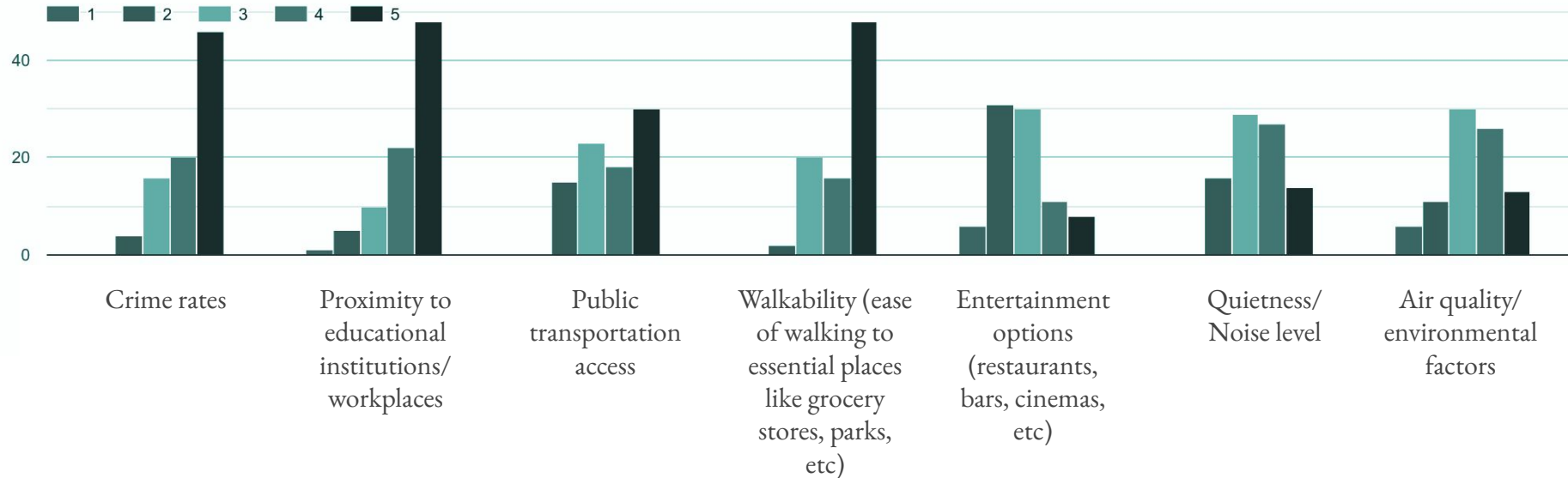


Figure 7 - Choosing Factors

## QUESTIONNAIRE

What do you consider essential knowing about the area when deciding on a property?

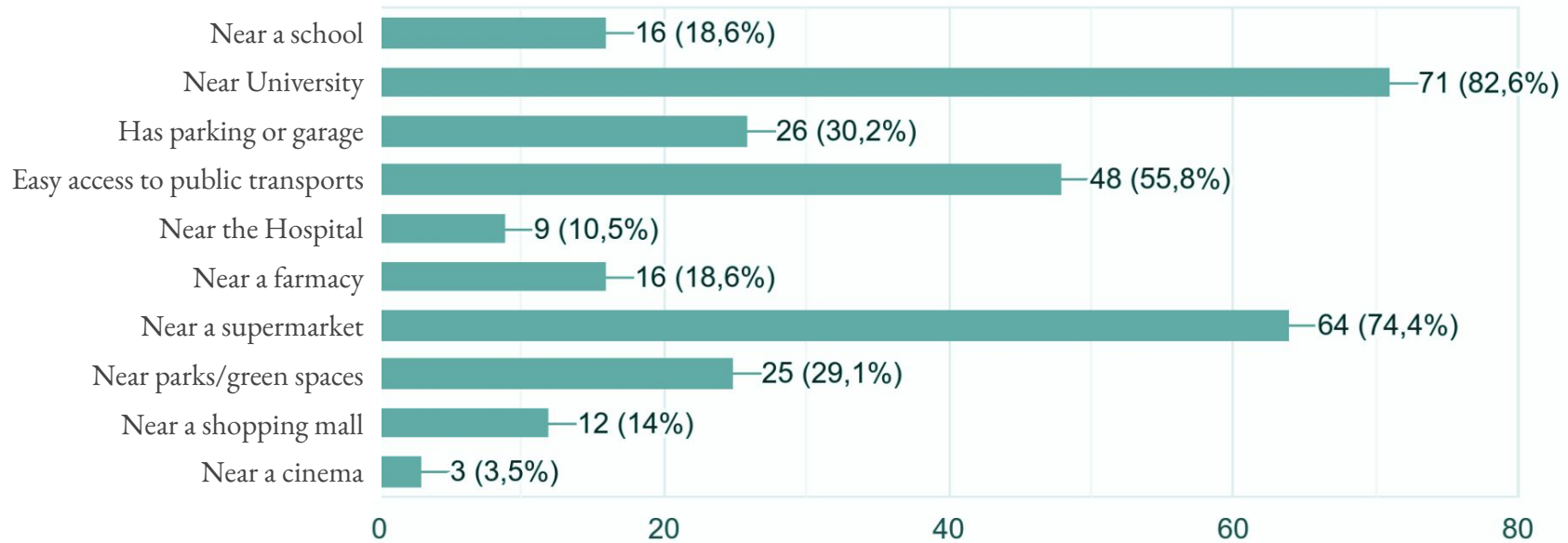


Figure 8 - Essential Requirements

## QUESTIONNAIRE

How important is it for you to have detailed information about the surrounding area (e.g., Walk Score, Transit Score, community reviews) when searching for a place to live?  
(1- Not Important/5-Very Important)

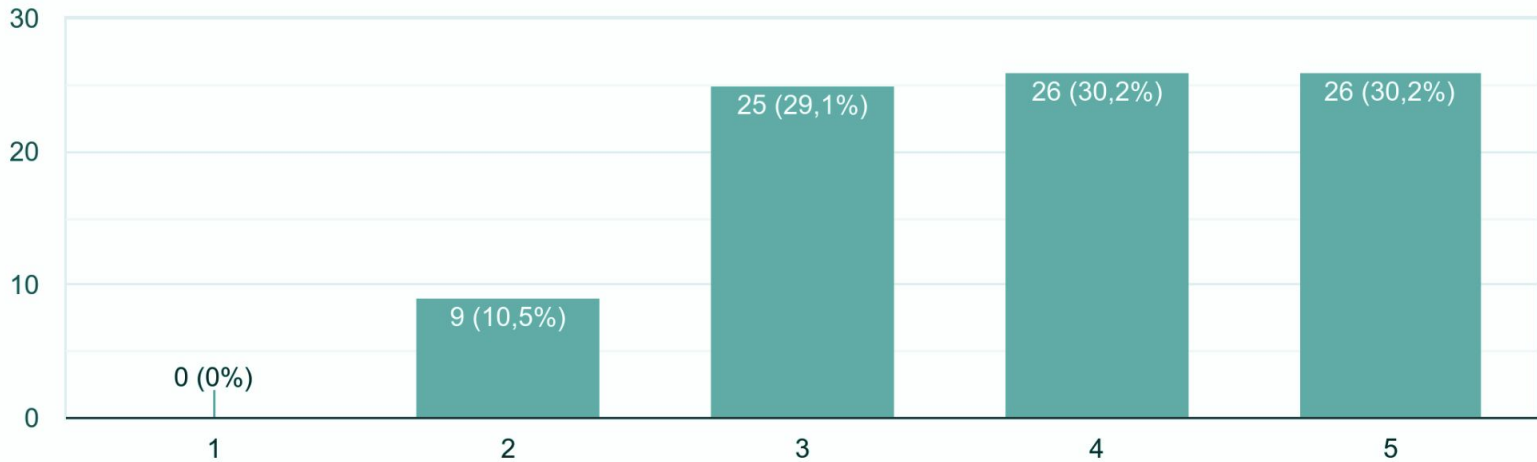


Figure 9 - Detailed Info Scale



## QUESTIONNAIRE

Important aspects in the **selection of a habitation area** that were mentioned:

- Infrastructure for electric vehicles
- Feedback from the landlord and tenants
- Accessibility for pedestrians
- How old the buildings are
- Quality and transparency of the house listings
- Energetic efficiency and natural light of the house
- Internet quality
- Good prices
- Neighborhood quality



## QUESTIONNAIRE

Do you take note of anything **lacking** or any **missing aspects** in the real estate applications/websites?

- Trustworthiness and quality of the adverts
- Contact information
- Specific tools for students
- Interface and process personalization and updates
- Detailed information about the location



## QUESTIONNAIRE

Real estate search applications or websites mentioned

- Idealista
- Facebook
- OLX
- Bquarto
- Imovirtual
- Uniplaces
- SuperCasa
- CustoJusto
- ERA



# **ACTORS & USE CASES**

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# ACTORS



Users → Anyone looking to acquire a property or helping someone in this task



Property sellers → Real Estate agencies/agents or individual sellers

# USE CASES DIAGRAM

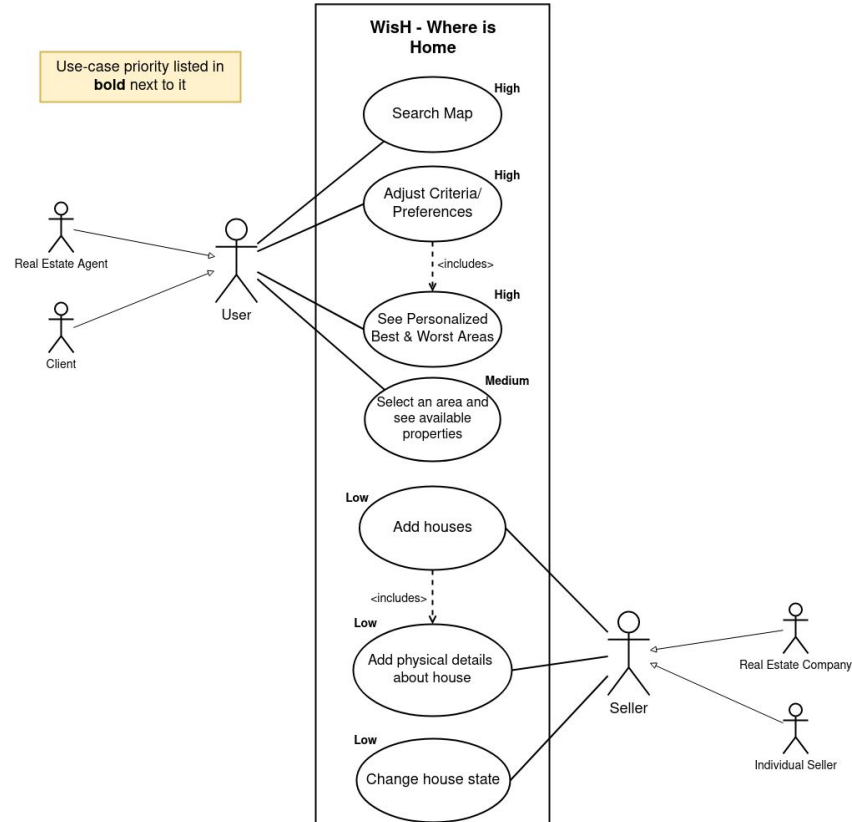


Figure 10 - Use Cases

# PERSONAS



**Name:** Ricardo Pereira Ferreira

**Age:** 39 years old

**Sex:** Male

**Job:** Electrician

**Marital Status:** Married

**Location:** Aveiro, Aveiro, Portugal

## SCENARIOS

**Scenario I** Ricardo is a client looking for a new house to buy. He's already got a registered account in the system and wishes to explore the available options based on his personal preferences and evaluation metrics.



## SCENARIOS



# PERSONAS

**Name:** Paula Vieira Marques

**Age:** 43 years old

**Sex:** Female

**Job:** Real Estate Agent

**Marital Status:** Married

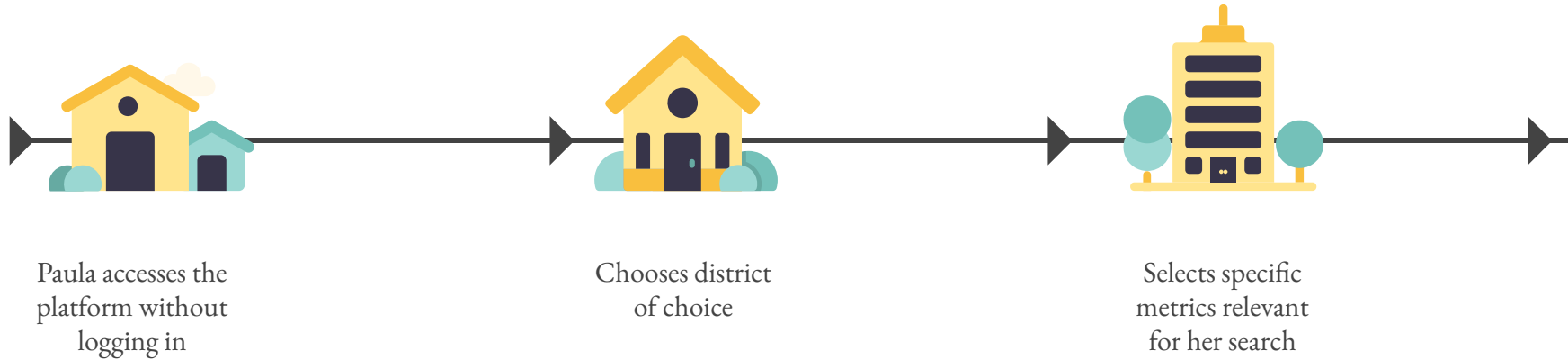
**Location:** Aveiro, Aveiro, Portugal



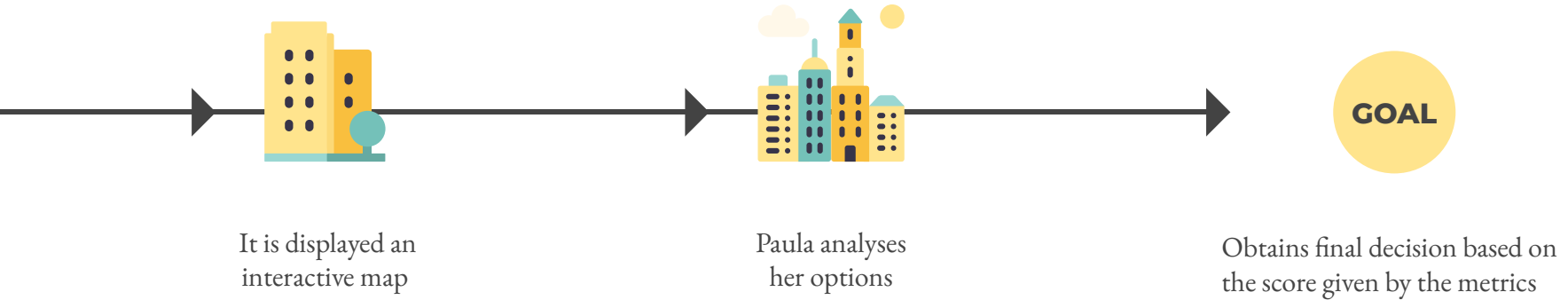


## SCENARIOS

**Scenario 2** Paula, an experienced real estate agent, is interested in using the platform to identify new properties that can meet her clients' needs. Although she has the option to create an account, she decides to use the login-less platform to perform a quick search.



## SCENARIOS



# FUNCTIONAL & NON-FUNCTIONAL REQUIREMENTS

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# Non-functional Requirements



**Performance:** Response Time & Scalability



**Security:** Authentication and authorization & Data protection



**Usability:** Ease of use



**Maintainability**

# Functional Requirements

A **Client** should be able to:

- Login/Register
- Manage account details
- Manage personal preferences
- Interact with and filter the evaluation metrics
- View results based on the metrics

A **Seller** should be able to:

- Login/Register
- List properties for sale
- Add property details
- Upload photos/videos



# **SYSTEM ARCHITECTURE**

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## ARCHITECTURE

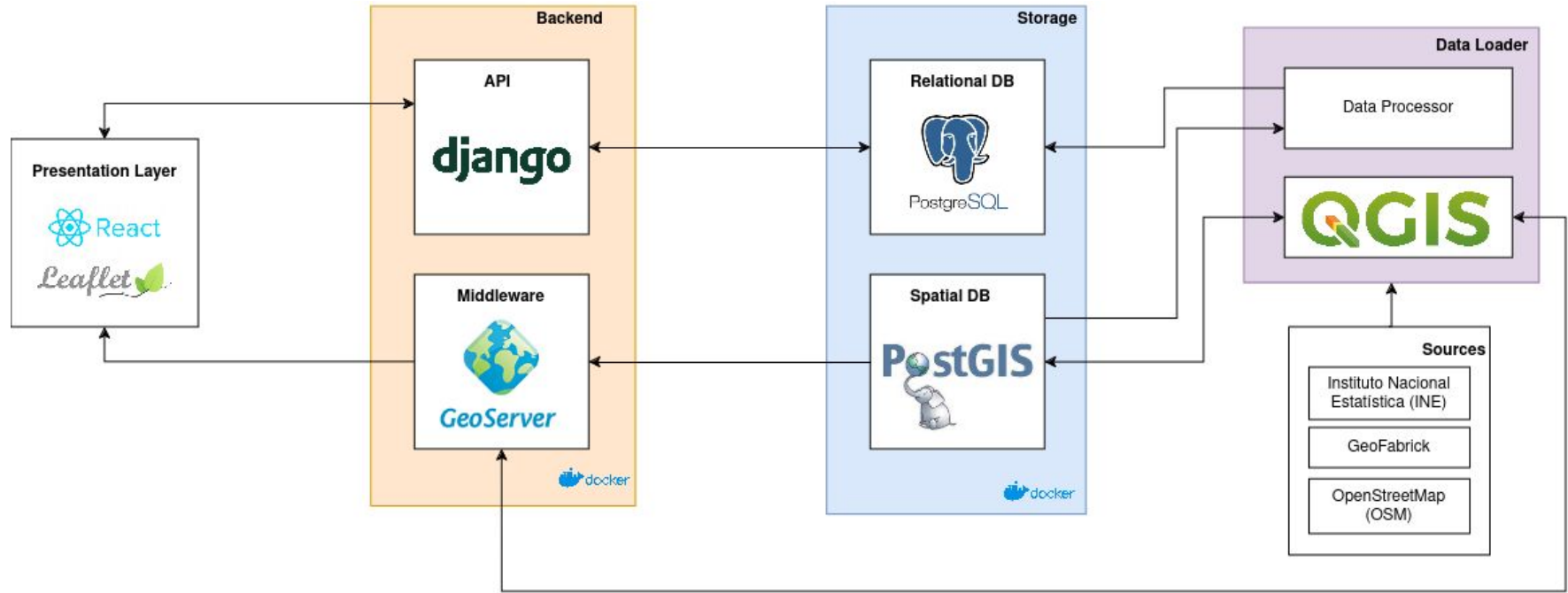


Figure 11 - Architecture

## DOMAIN MODEL

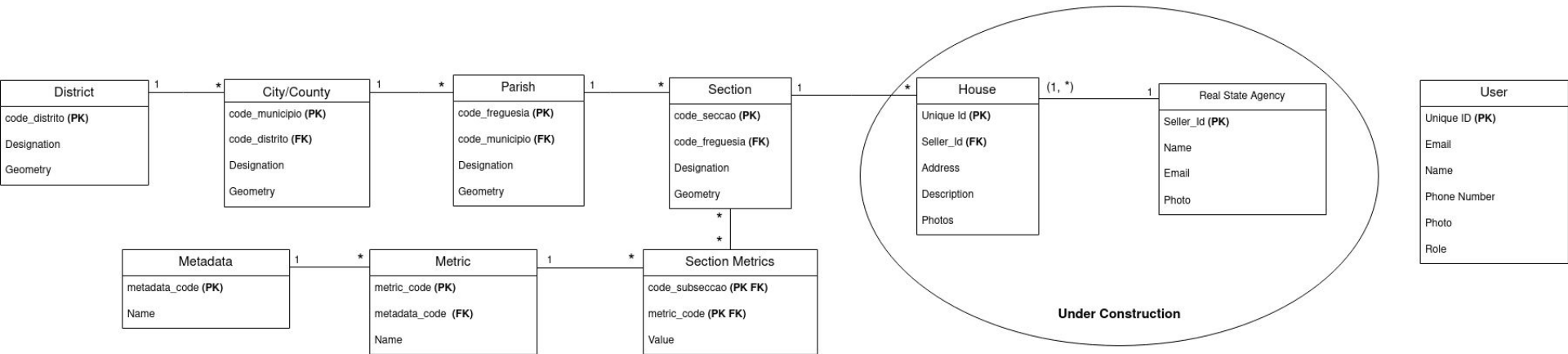


Figure 12 - Domain Model



# **MOCK UP**

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## MOVE TO NEW YORK

### Find your perfect spot in New York City

**1** General Info  
General Info about you

**2** Locations of Interest  
Enter your daily route

**3** Finished  
View the results of your search

How old are you?

☒ under 25 ☐ 25 to 35 ☐ 36 to 50 ☐ over 50

Please answer the following questions

☐ Do you have children? ☐ Are you a student

☐ Do you own a car? ☐ Do you have a dog?

☐ Do you do outdoor sports? ☐ Do you use the subway often?

☐ Do you like nature?

Do you prefer an quiet or an vibrant area?

☐ I prefer quiet areas ☒ I don't care ☐ I like vibrant areas

How important are rental prices for you?

☐ Money is a big concern ☒ It should not be overly expensive ☐ Money is no problem

Do you want to live near the city center?

☐ I prefer to live away from the center ☒ I don't care ☐ I prefer to live central

Do you have specific boroughs that you want to live in?

☐ Queens ☐ Brooklyn

☐ Manhattan ☐ Bronx

☐ Staten Island


Next Step





## Move to New York

### Find your perfect spot in New York City

**General Info**  
General Info about you

**2** **Locations of Interest**  
Enter your daily route

**3** **Finished**  
View the results of your search

#### Locations of Interest

Let us know what places you usually visit during a day. This will help us to search a place that is not too far from your daily visited places.

+

-

You start your day home.

Home

Then you visit these places.

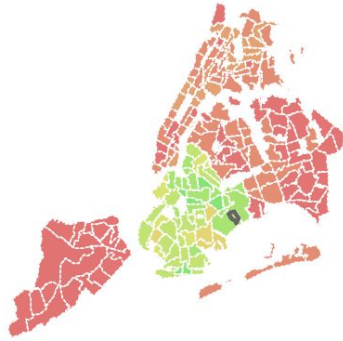
Add Place

After a long day you head back home.

Home

Next Step





## Results

**West Brighton**  
Brooklyn

**Prospect Heights**  
Brooklyn

**Crown Heights South**  
Brooklyn

**Brownsville**  
Brooklyn

**Brighton Beach**  
Brooklyn

**Stuyvesant Heights**  
Brooklyn

**Bedford**  
Brooklyn

**Cypress Hills-City Line**  
Brooklyn

**Clinton Hill**  
Brooklyn

**DUMBO-Vinegar Hill-  
Downtown Brooklyn-  
Boerum Hill**  
Brooklyn

**Prospect Lefferts Gardens-  
Wingate**  
Brooklyn



About Us

Login

PT | EN



Select a District:

Portugal



If you still don't know a district, select Portugal.

Search

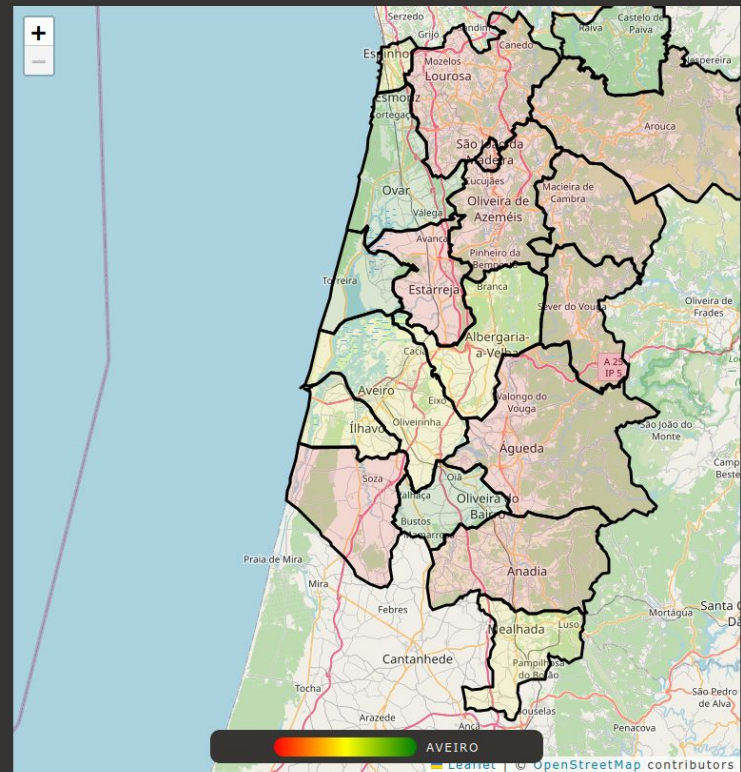


*Where the lifestyle meets the perfect location!*





## Search

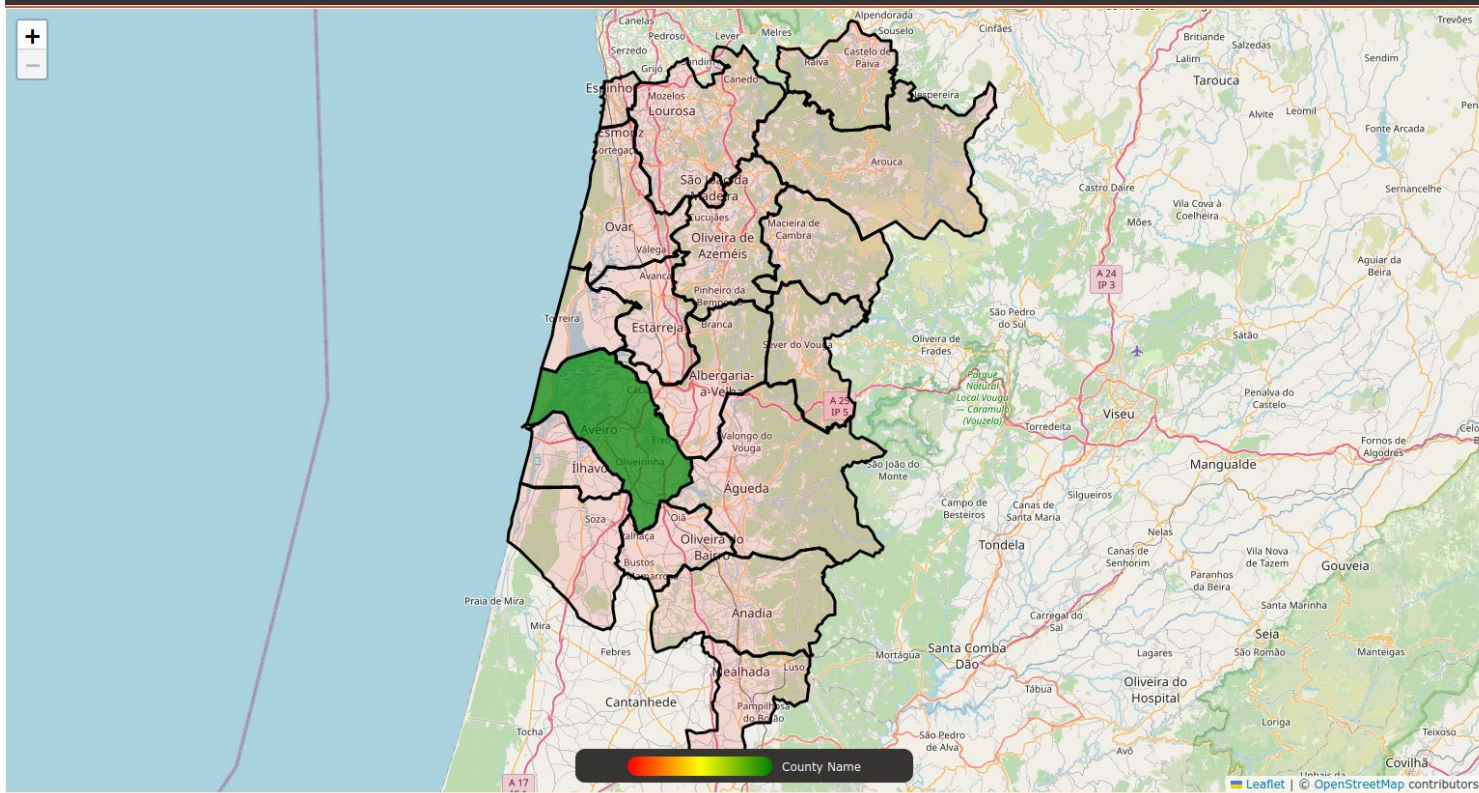




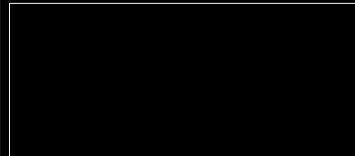
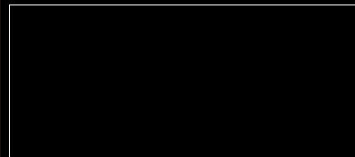
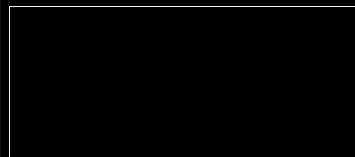
About Us

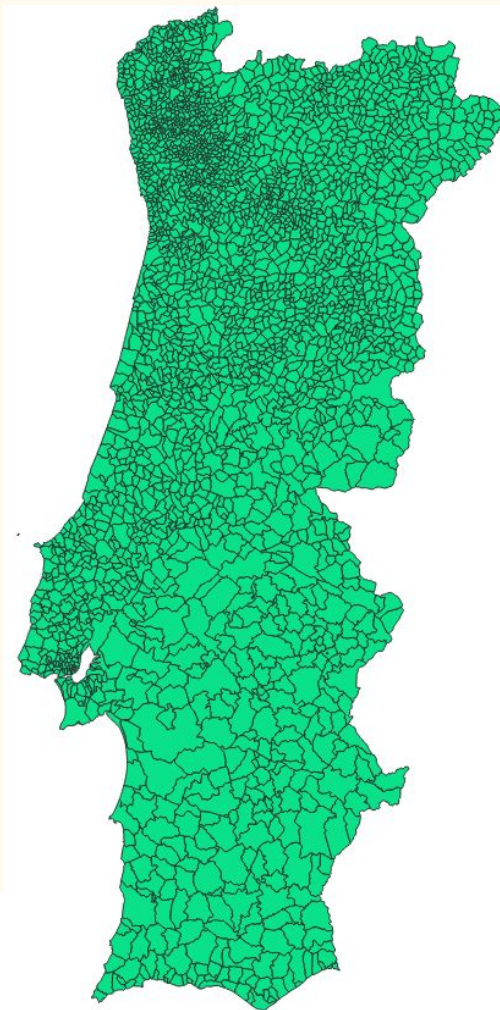
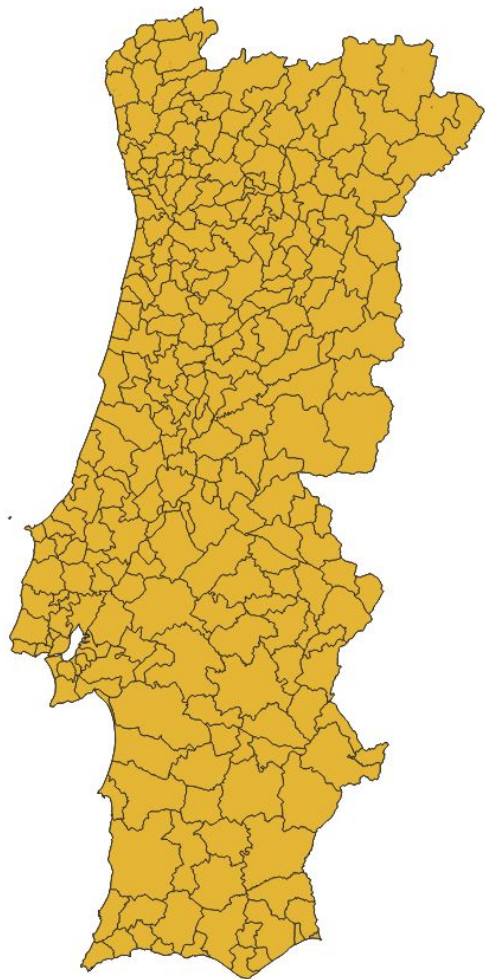
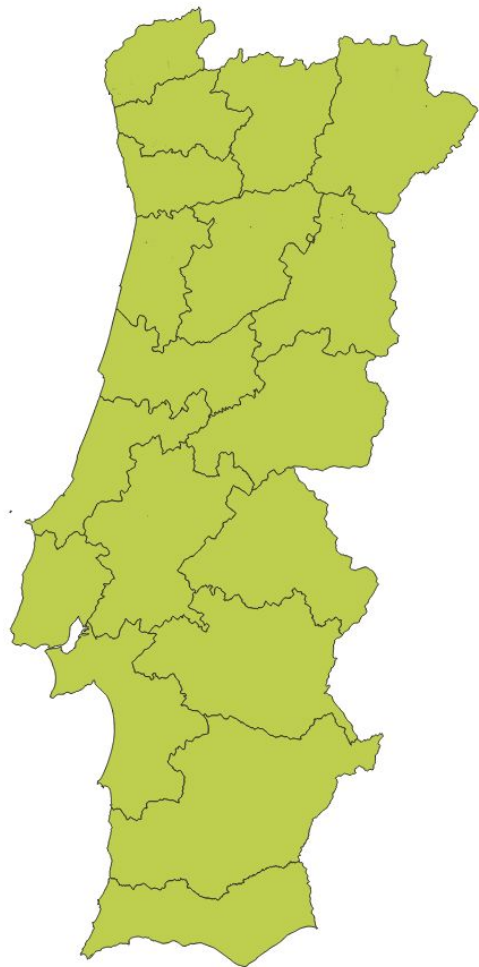
Login

PT | EN



Metrics Properties





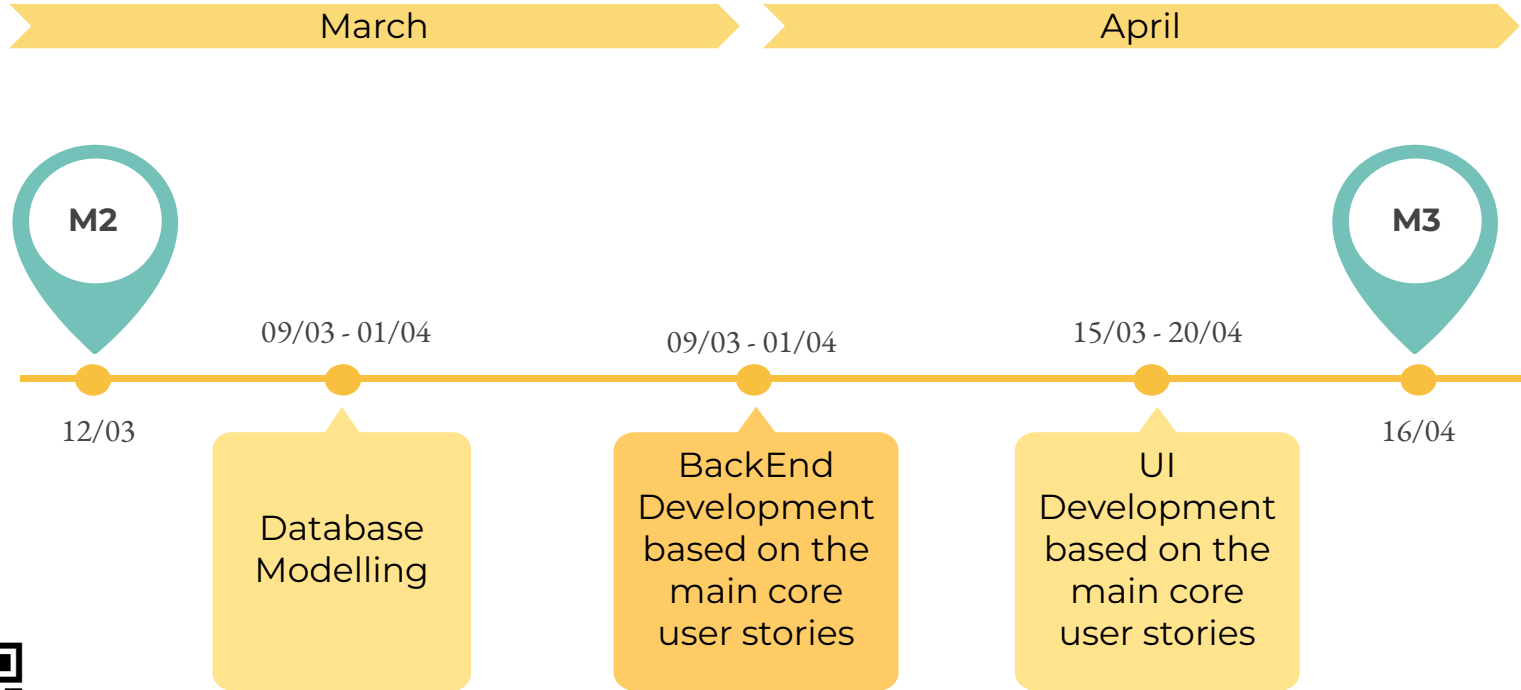


# **CALENDAR**

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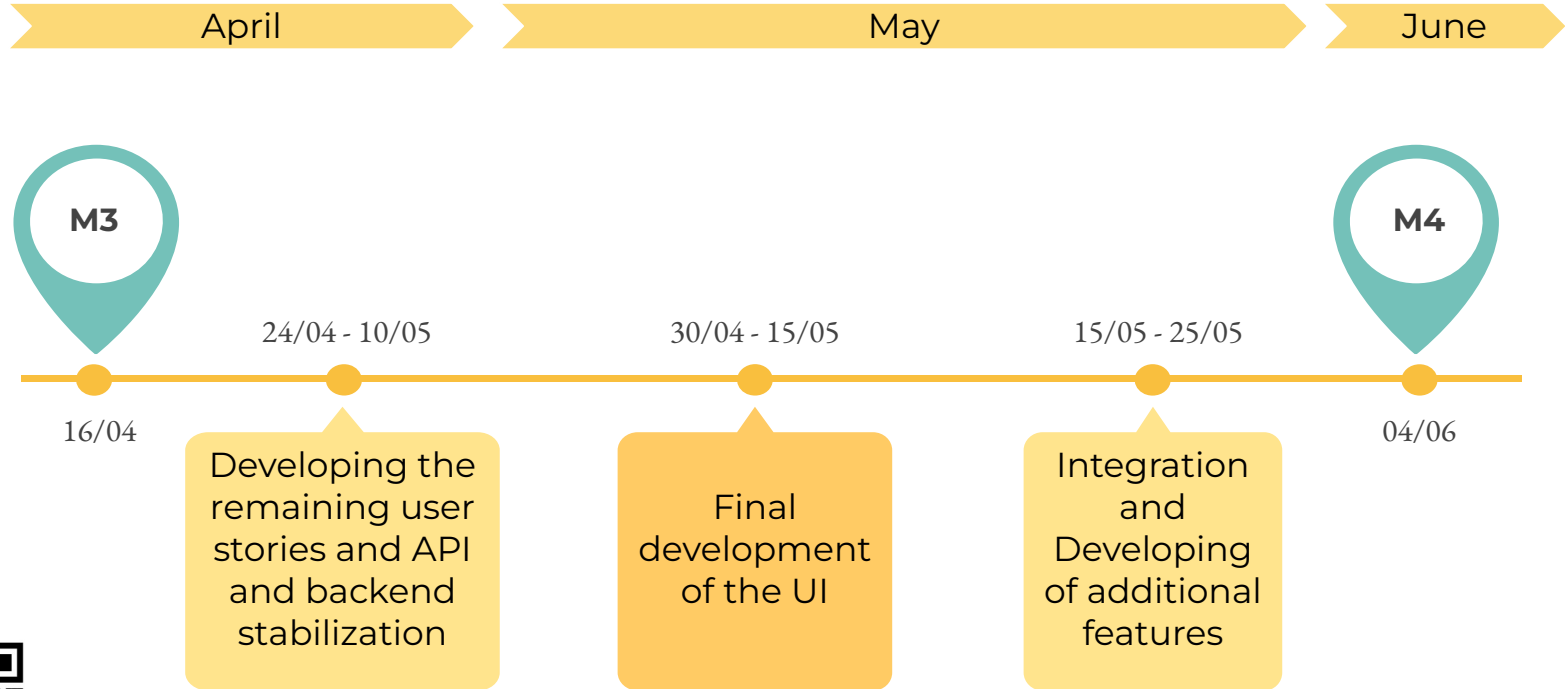
## PROJECT CALENDAR



Calendar



## PROJECT CALENDAR



Calendar



# THANK YOU

Does anyone have any questions?



<https://whereishome.netlify.app/>

