WisH Where is Home

Projeto em Informática

Milestone 3: Construction Phase
Group 7

deti universidade de aveiro
departamento de eletrónica, telecomunicações e informática

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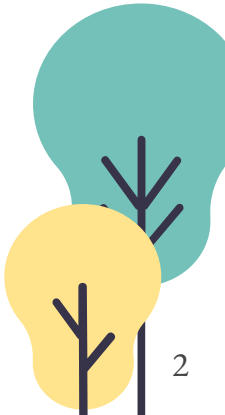

THE TEAM

Cristiano Nicolau
DBAdmin

Gonçalo Lopes
DevOps

Joana Gomes
Product Owner

Miguel Miragaia
Team Leader

Tiago Cruz
SCRUM master

Vasco Faria
Architect

Professor José Moreira
Advisor

CONTEXT AND STATE OF THE ART

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CONTEXT: PROBLEM & MOTIVATION

The real estate market is saturated with systems that focus on the **physical attributes** of properties.

An individual's **quality of life** is closely tied to the availability of services and facilities **within or nearby an area**.

We wish to enhance the overall **well-being** and **satisfaction** of individuals by providing them with a tool which allows them to find a home that aligns with their **lifestyle** and **preferences**.

	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	✓	✓	✓	✗	✗	✓

GOALS

- Develop an innovative real estate platform with unique functionalities
- Incorporate additional metrics
- Client can explore areas based on personal preferences

EVALUATION METRICS

HEALTH

- Health services
- Hospital
- Pharmacy
- Clinic
- Veterinary

NATURE & SPORTS

- Sports Center
- Camping
- Parks
- Swimming Pool
- Beaches & Rivers
- Bicycle Path
- Walking Routes

EVALUATION METRICS

SOCIAL & LEISURE

- Night life
- Hotel
- Culture
- Entertainment

SERVICES

- Services
- Bank
- Post Office
- Public Facilities
- Car Park
- Industrial Zone

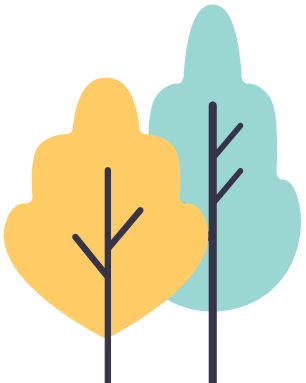
EVALUATION METRICS

EDUCATION

- School
- Library
- Kindergarten
- University

COMMERCE

- Supermarket
- Bakery
- Food Court
- Commerce



TASKS

Figure 1 - Tasks

CONCEPTUAL MODELING

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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

An **Owner** should be able to:

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

Non-functional Requirements

Performance: Response Time & Scalability

Security: Authentication and authorization & Data protection

Usability: Ease of use

Maintainability

SYSTEM ARCHITECTURE

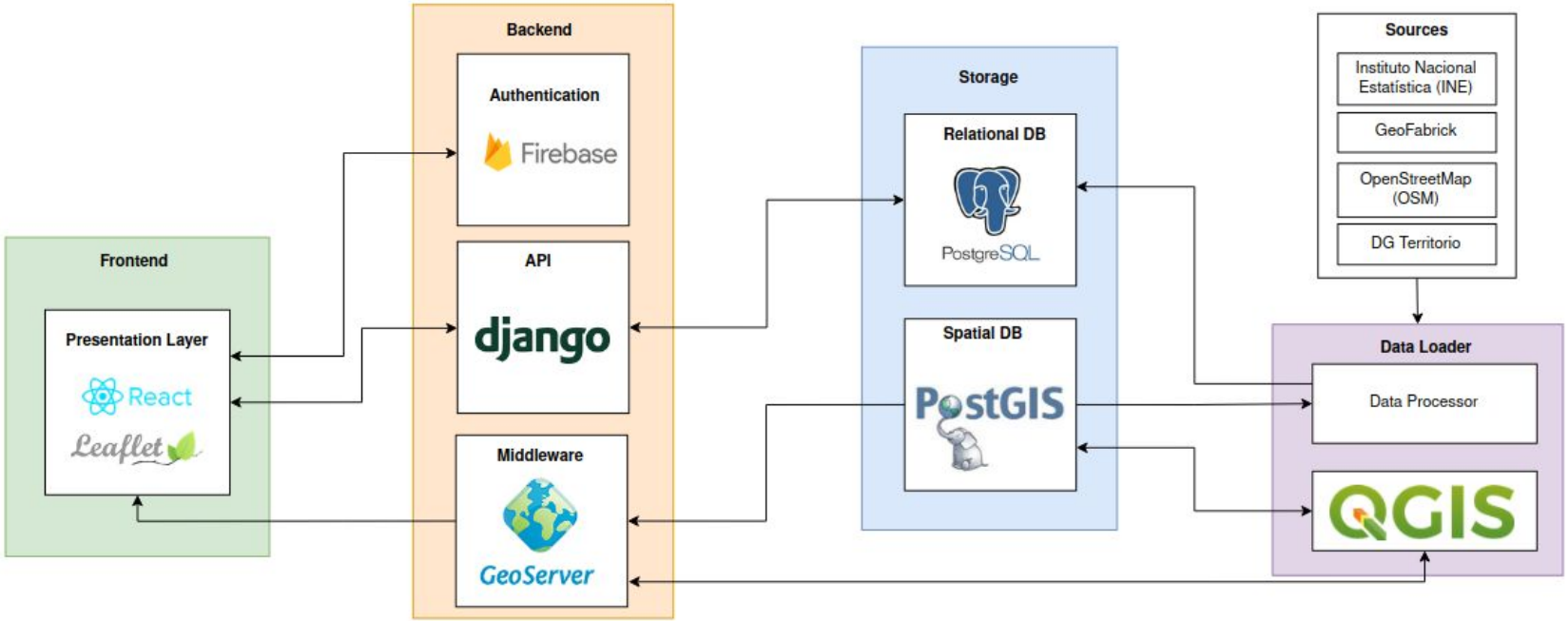

Figure 2 - Architecture

DEPLOYMENT ARCHITECTURE

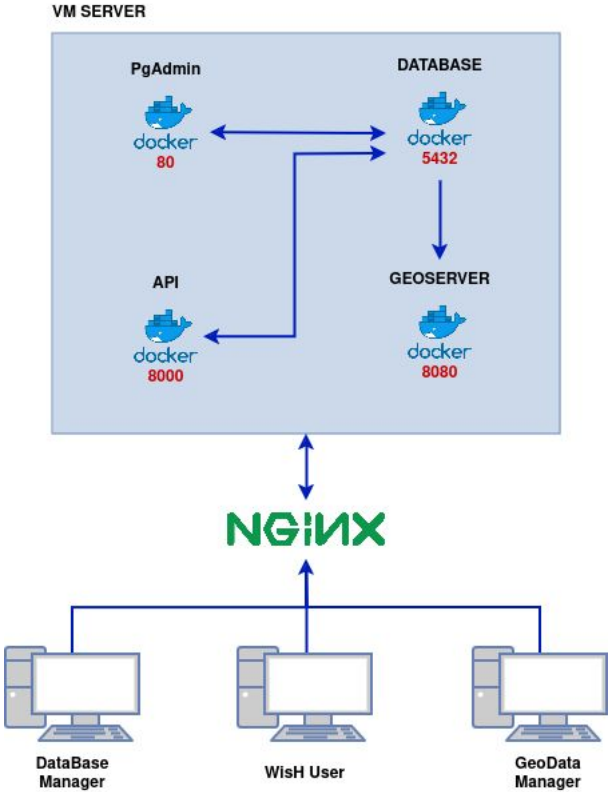

Figure 3 - Deployment Architecture

DOMAIN MODEL

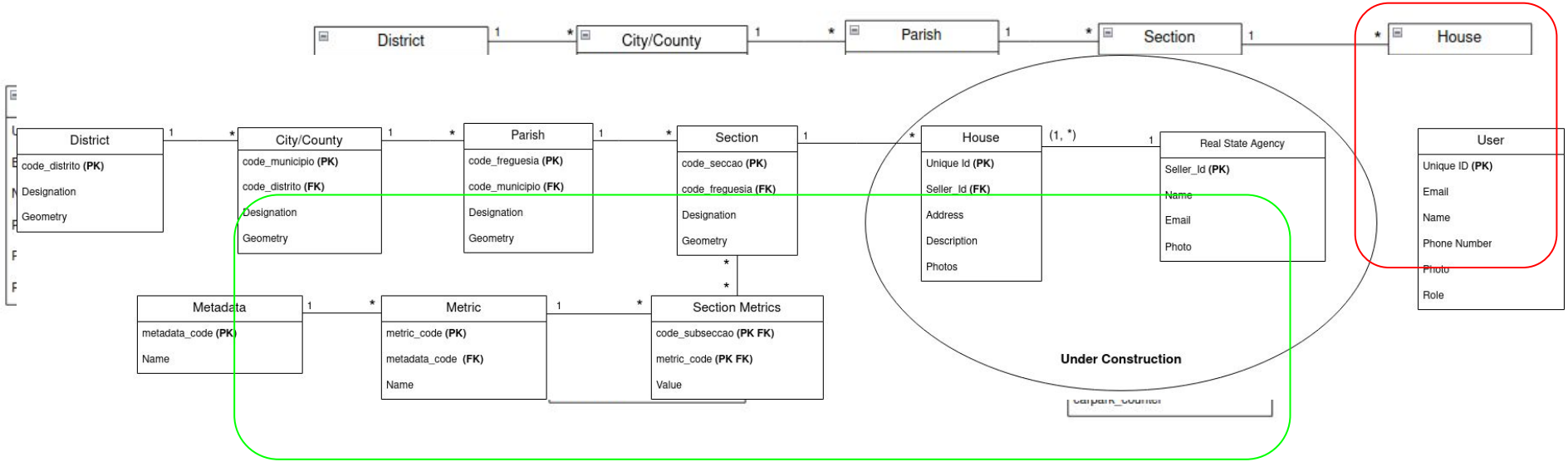

Figure 4 - Domain Model

FRONTEND

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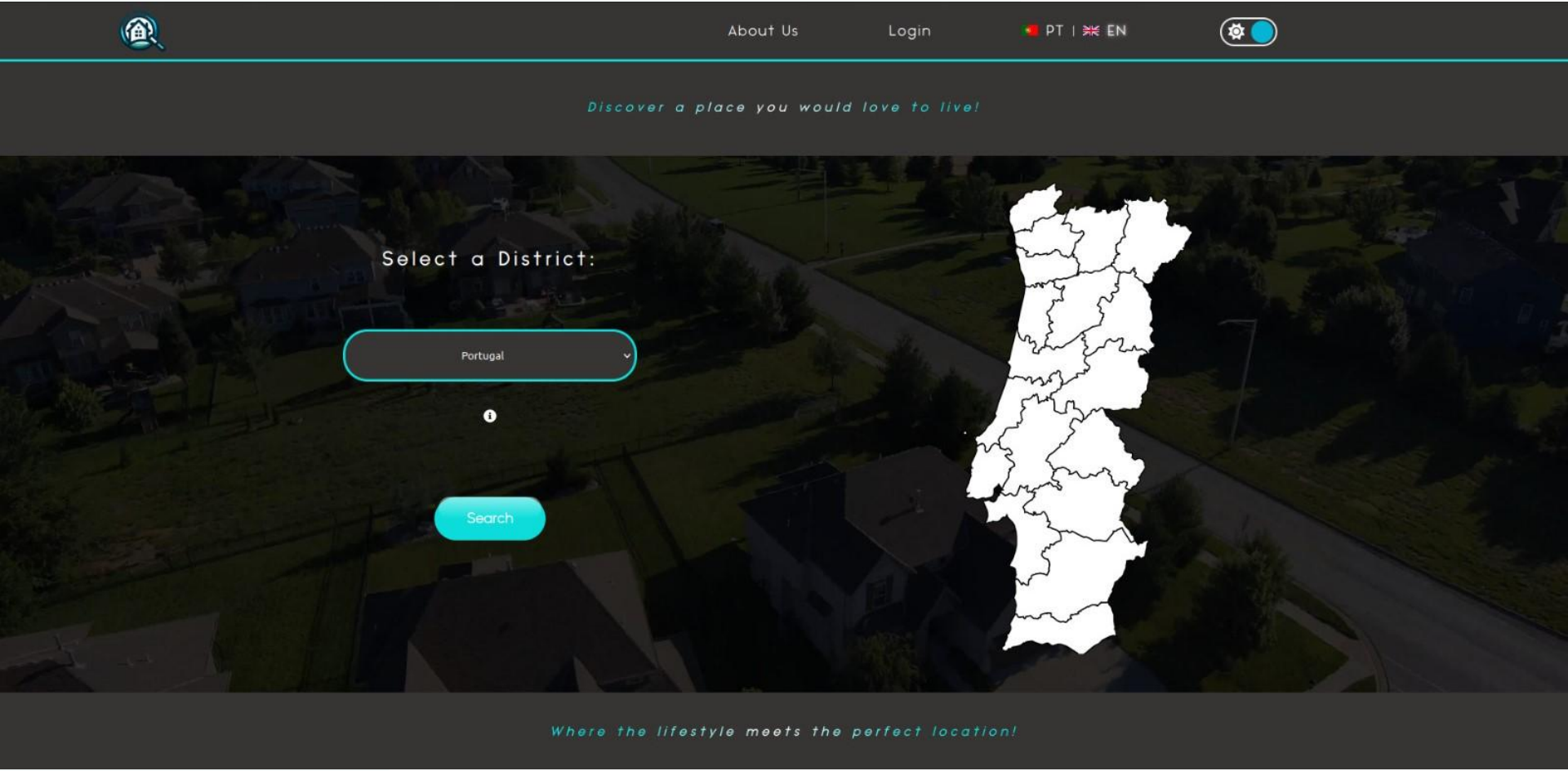

About Us
Login
PT | EN
Discover a place you would love to live!
Select a District:
Portugal
Search
Where the lifestyle meets the perfect location!

WisH
Where is Home

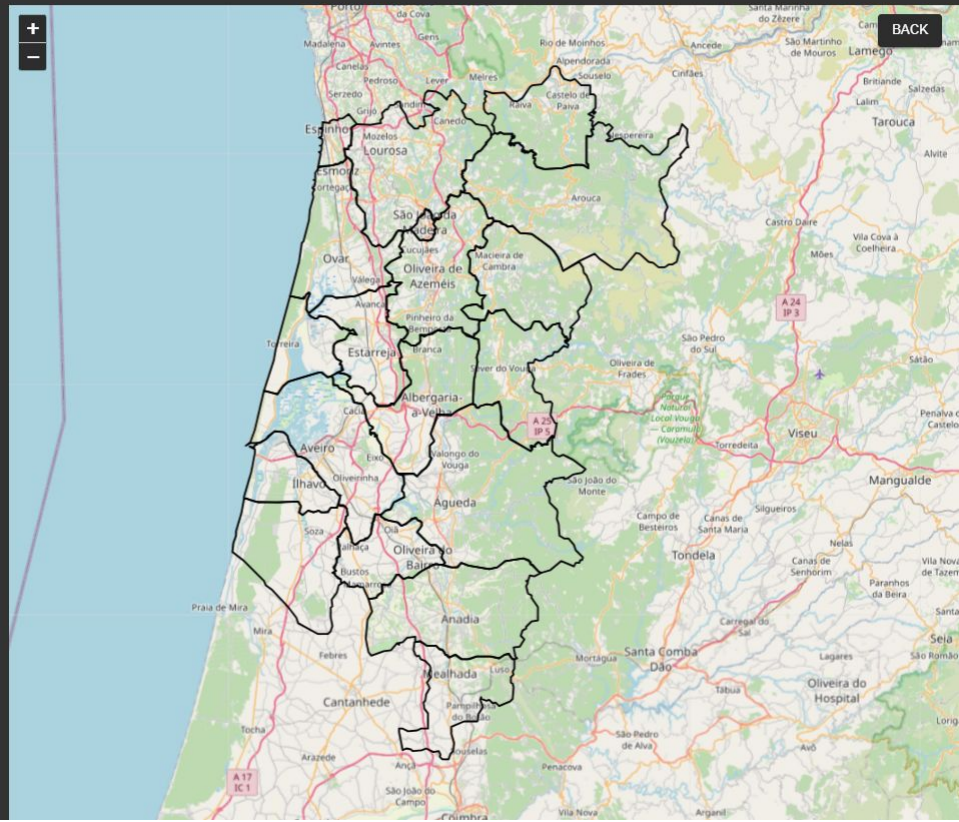
About Us | PT | EN | Login

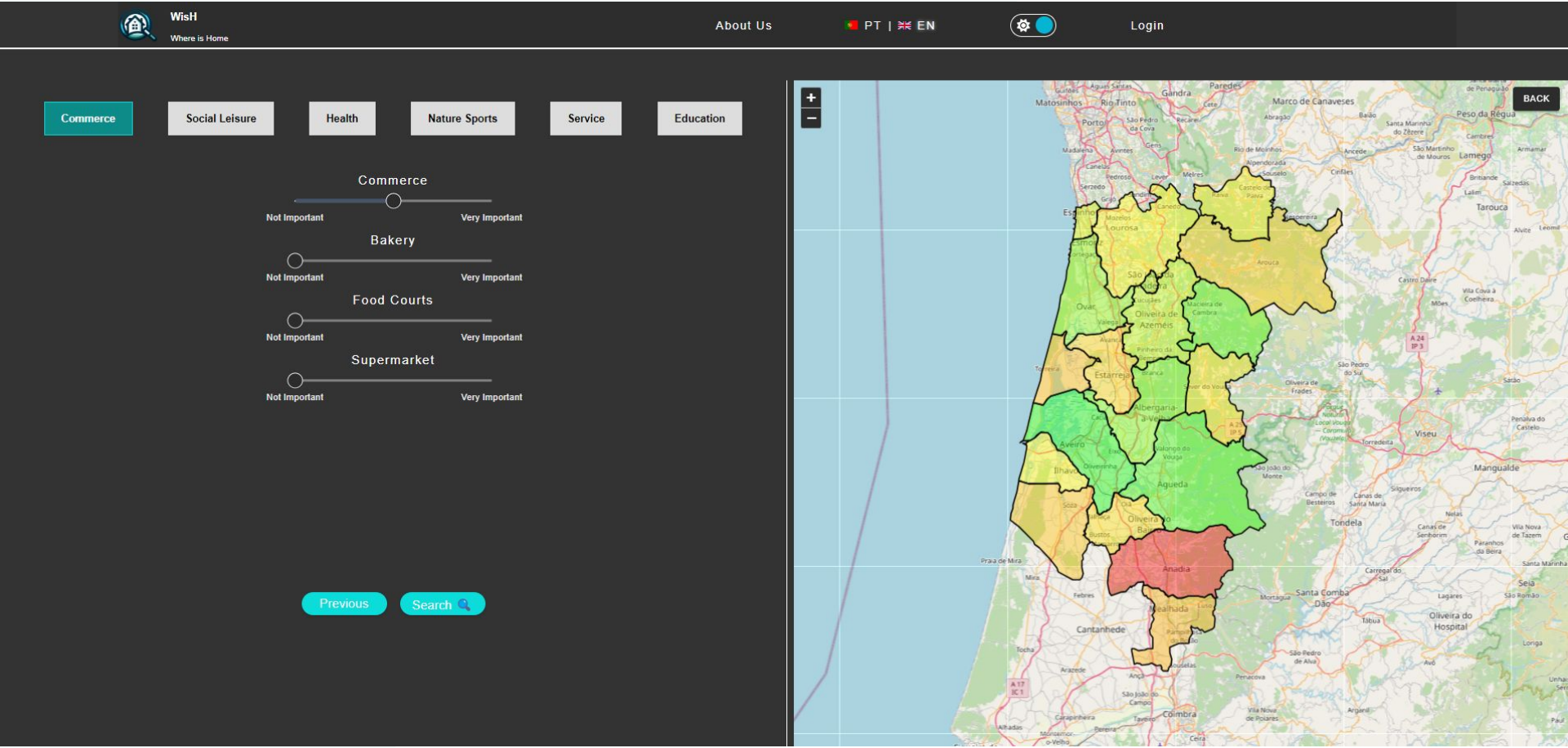
Aveiro

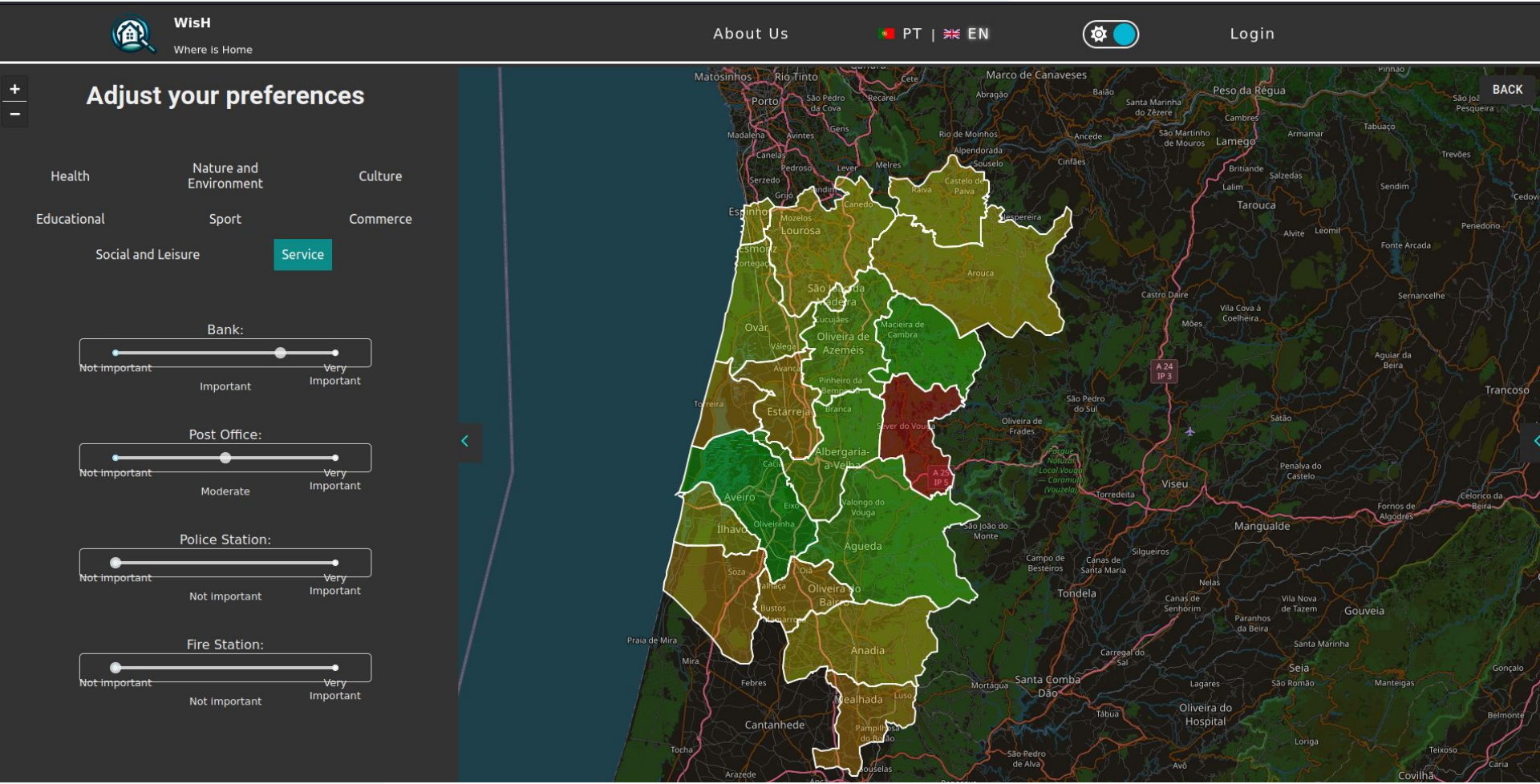
What are you looking for?

	Nothing	Very Important
Commerce		
Social leisure		
Health		
Nature sports		
Service		
Education		

Next




WisH
Where is Home
About Us
PT | EN
Login
Commerce
Social Leisure
Health
Nature Sports
Service
Education
Commerce
Not Important
Very Important
Bakery
Not Important
Very Important
Food Courts
Not Important
Very Important
Supermarket
Not Important
Very Important
Previous
Search
BACK


WisH
Where is Home
About Us
PT | EN
Login
Adjust your preferences
Health
Nature and Environment
Culture
Educational
Sport
Commerce
Social and Leisure
Service
Bank:
Not important
Important
Very Important
Post Office:
Not important
Moderate
Very Important
Police Station:
Not important
Not important
Very Important
Fire Station:
Not important
Not important
Very Important
BACK

WisH

Where is Home

About Us

PT | EN

Login

BACK

Properties

1º

Apartamento T4

Praia Grande, Torres

4 2 5 241.00m²

170.000$

2º

Casa T3

Centro da Cidade, Lisboa

3 1 3 150.00m²

250.000$

3º

Vivenda T2

Avenida Principal, Porto

2 1 2 100.00m²

120.000$

4º

Vivenda T2

Avenida Principal, Porto

2 1 2 100.00m²

120.000$

5º

Vivenda T2

Avenida Principal, Porto

BACKEND

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EVALUATION METRICS

District

City/County

Aveiro (01) / Aveiro (0101)	Pharmacies	Hospitals
Aradas (010101)	2/2000	0/2000
Glória (010102)	3/3000	1/3000
Vera Cruz (010103)	5/2500	0/2500

Score per Area = Counter / Area

Counter - Number of “Metric” in the region
Area - Area of the region

EVALUATION METRICS

Aveiro (01)	Pharmacies	Hospitals
Aradas (010101)	0.001	0
Glória (010102)	0.001	0.00033
Vera Cruz (010103)	0.002	0

Take the highest value and divide all scores by that value, obtaining a comparison score between each by metric

EVALUATION METRICS

Aveiro (01)	Pharmacies	Hospitals
Aradas (010101)	0.5	0
Glória (010102)	0.5	1
Vera Cruz (010103)	1	0

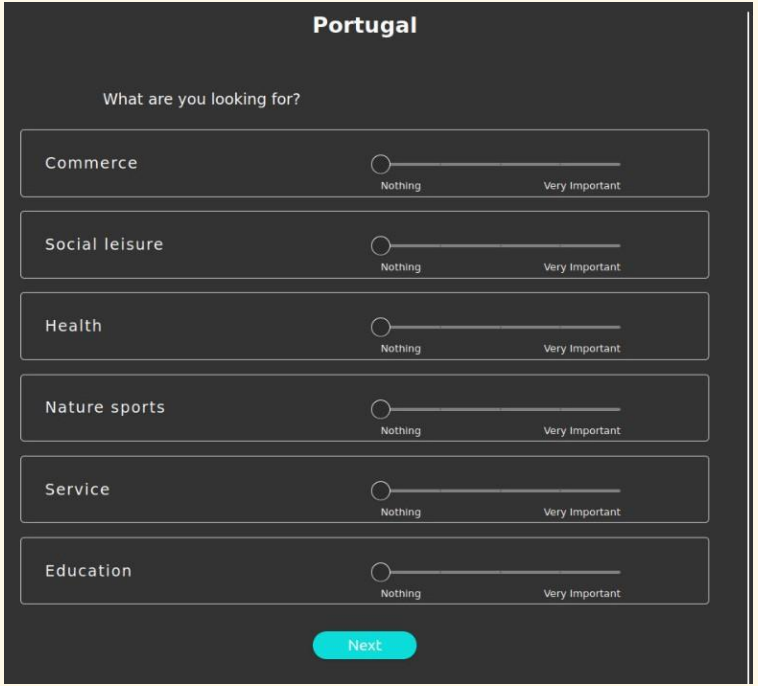
Result = Score of each Metric by region (ScoreMetByZone)

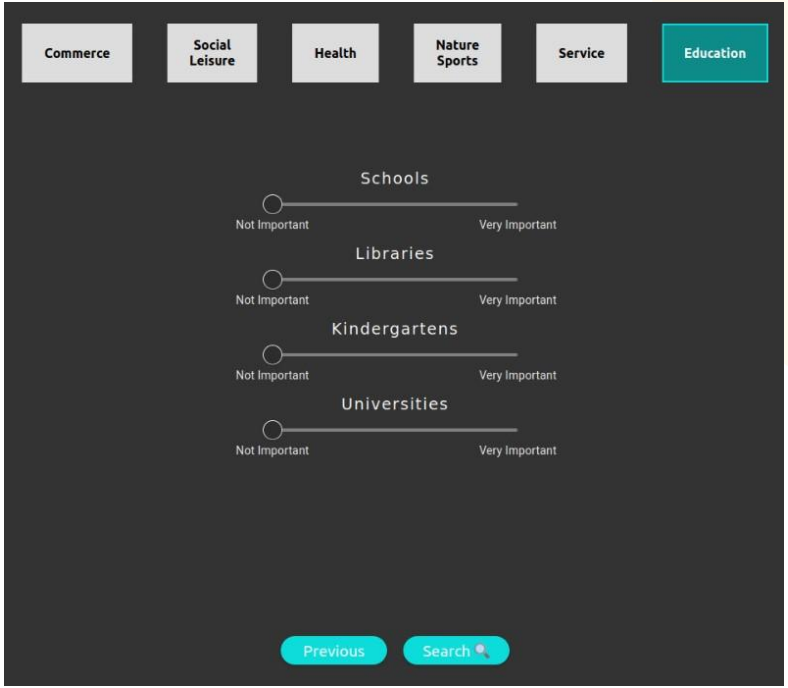
EVALUATION METRICS

Value stored in the Database ← ScoreMetByZone

SliderMetScore

Value retrieved from the Sliders of the Theme Evaluation →





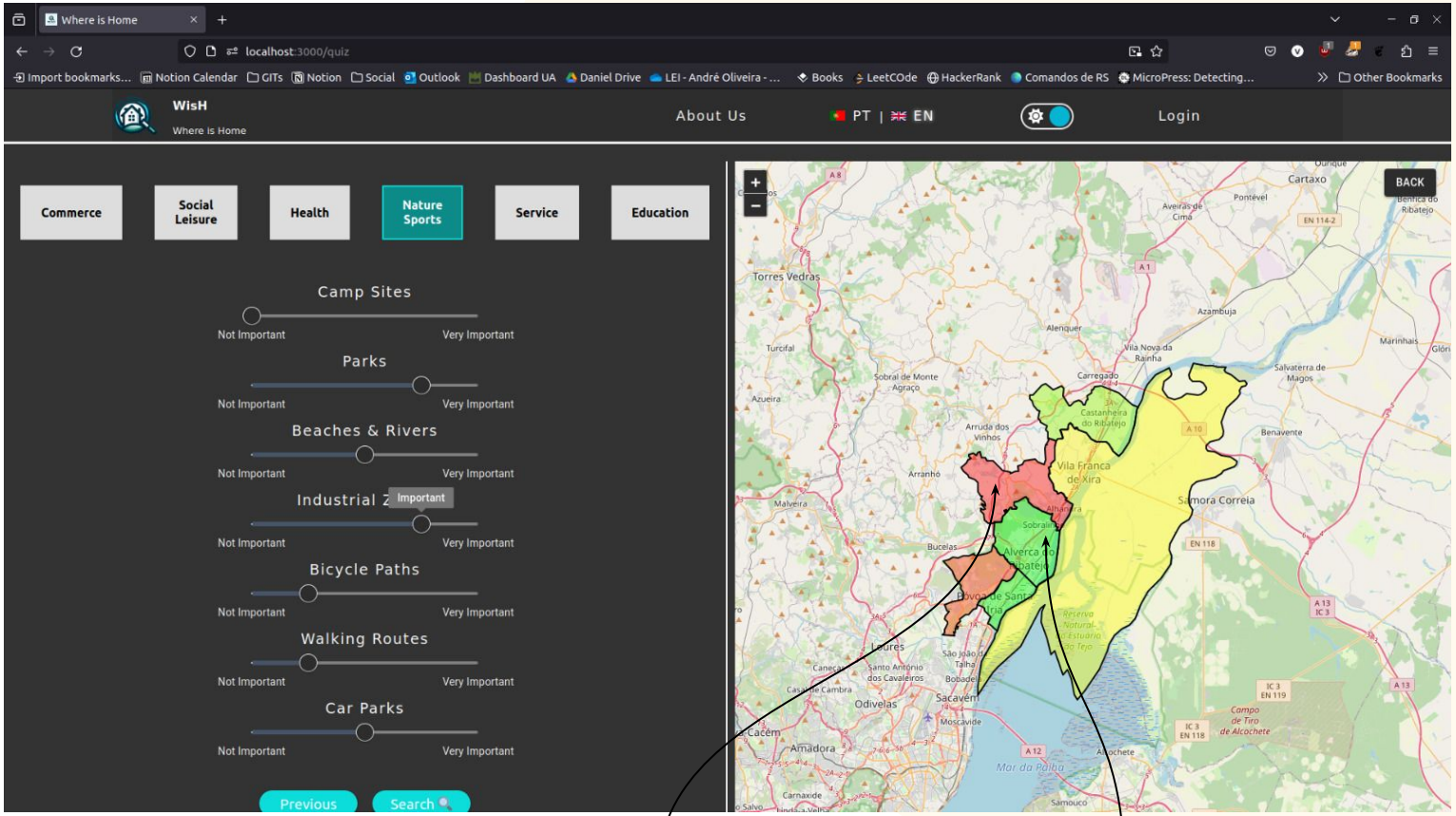
SliderThemeScore

Value retrieved from the Sliders of the Metric Evaluation

ScoreThemeXByZoneX = (ScoreMetByZone x SliderMetScore) x SliderThemeScore

FinalScoreZoneX = ScoreTheme0ByZoneX + ScoreTheme1ByZoneX + ScoreTheme2ByZoneX + ScoreTheme3ByZoneX + ...

Sum of all Theme Score for zone X



Zone with the lowest score amongst all displayed zones

Zone with the highest score amongst all displayed zones

DEMO

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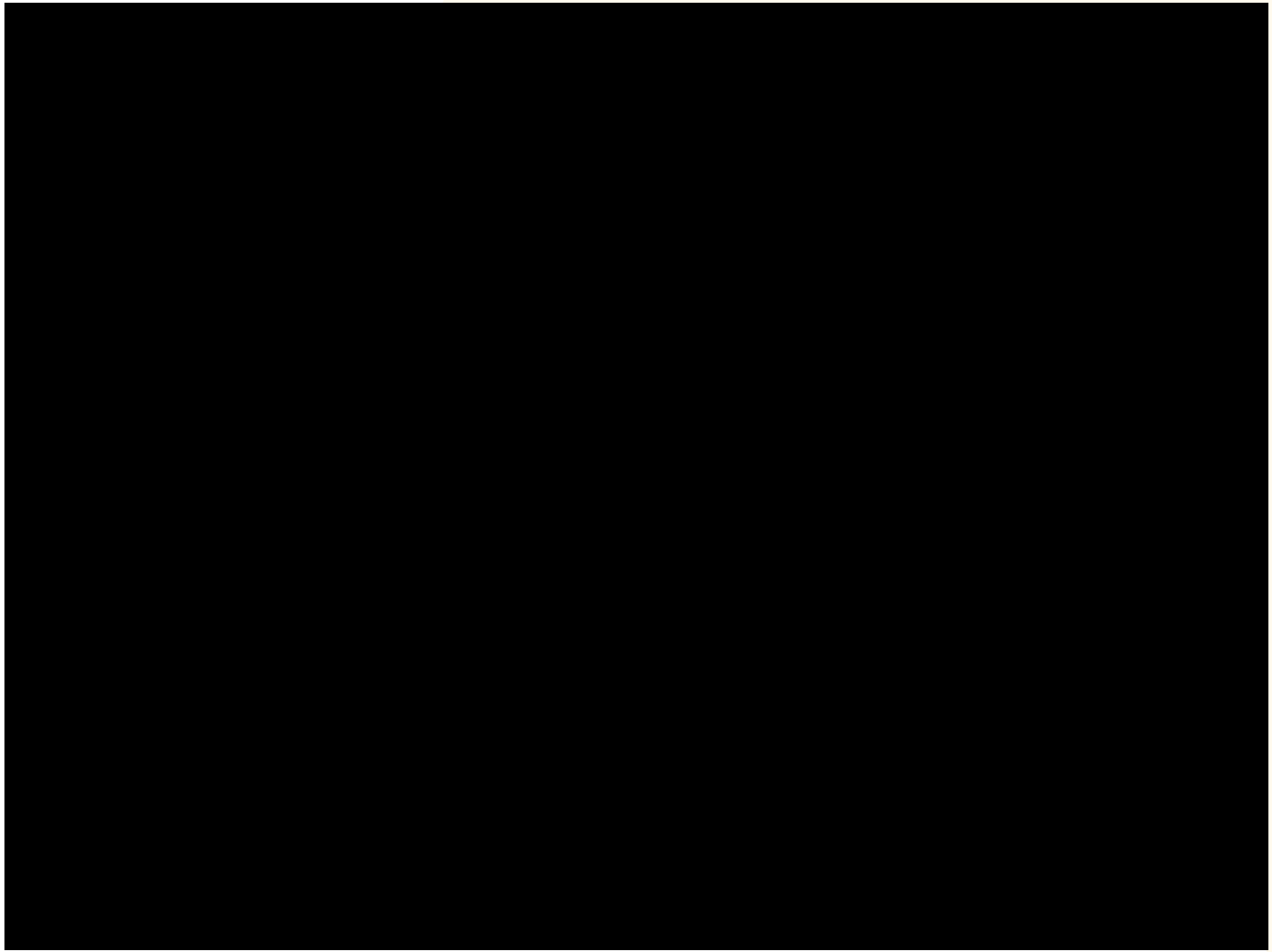

FUTURE WORK

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Future Work

- Insert Student Residences into Third Page
- Complete Student driven prototype and Reunion with Professor João Marques
- Present the prototype to “Serviços de Ação Social”

CALENDAR

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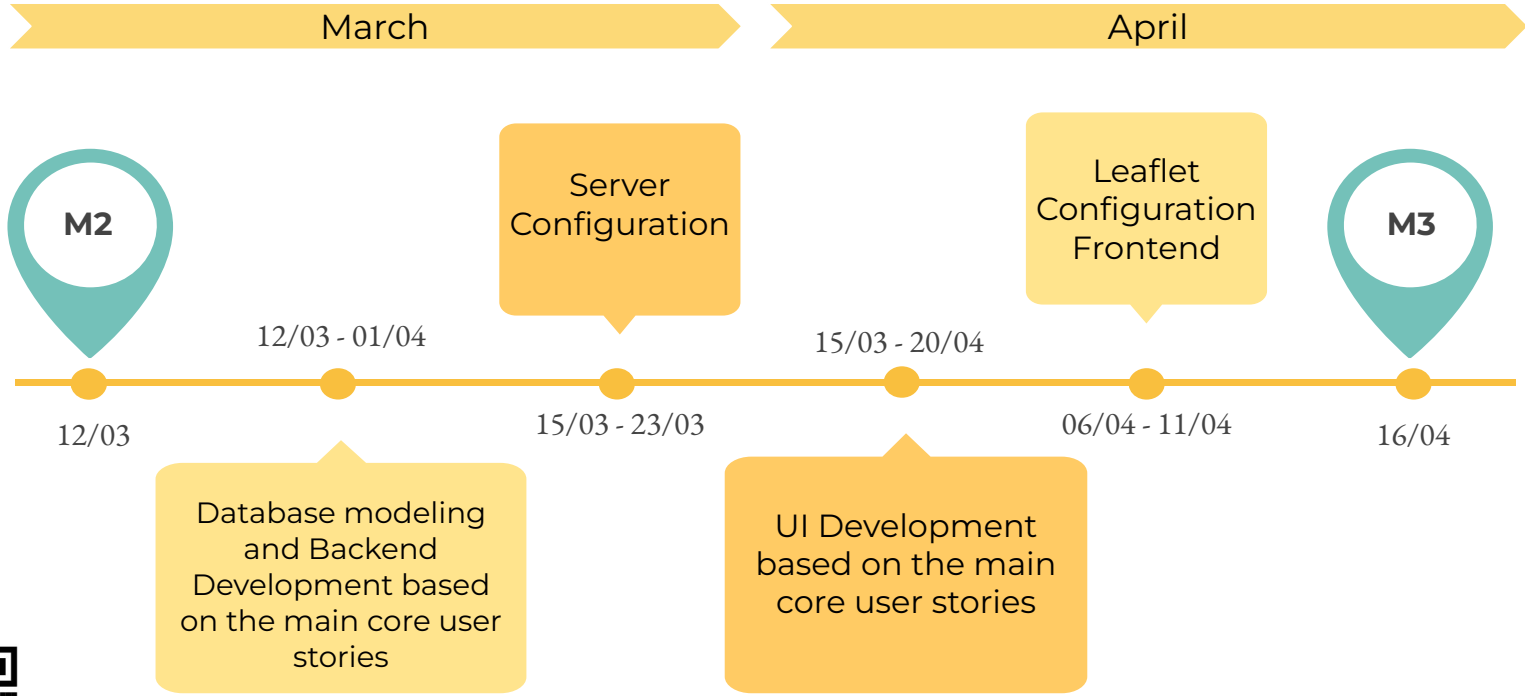
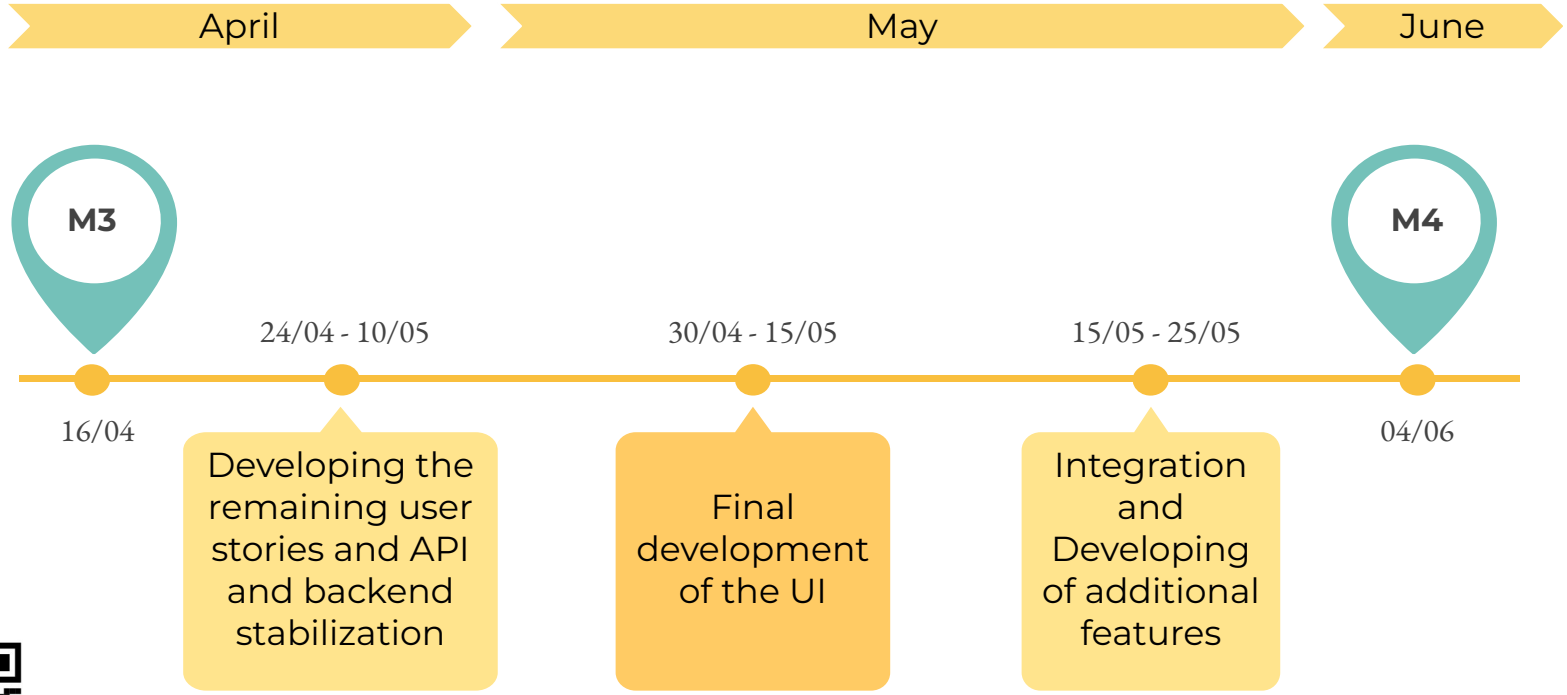
PROJECT CALENDAR



Calendar

PROJECT CALENDAR



Calendar

THANK YOU

Does anyone have any questions?

https://whereishome.netlify.app/

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