

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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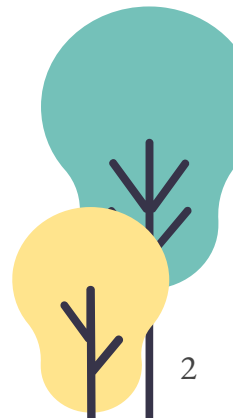
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THE TEAM



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DBAdmin



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DevOps



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Product Owner



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Team Leader



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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**.

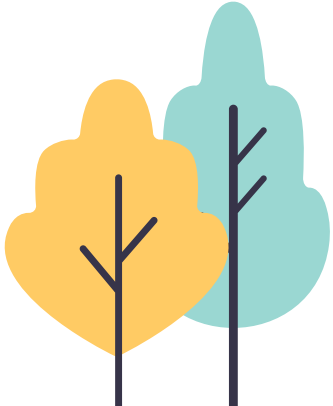
We wish to enhance the overall **well-being** and **satisfaction** of individuals by providing them with a tool which allows them to find a home that aligns with their **lifestyle** and **preferences**.



	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

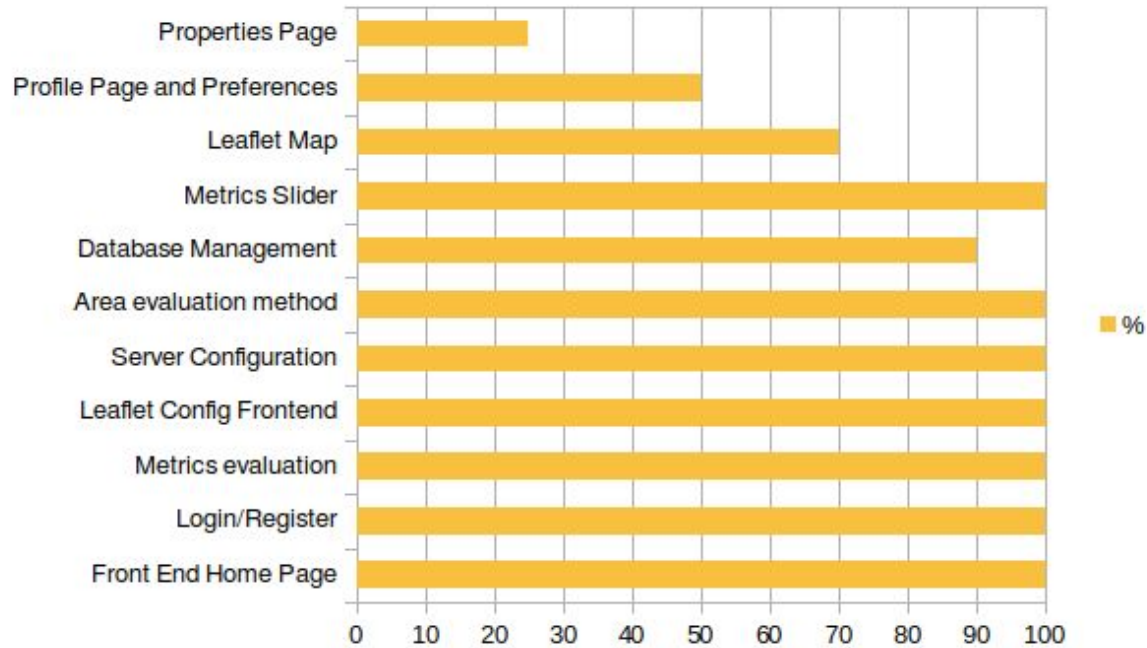


Figure 1 - Tasks

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

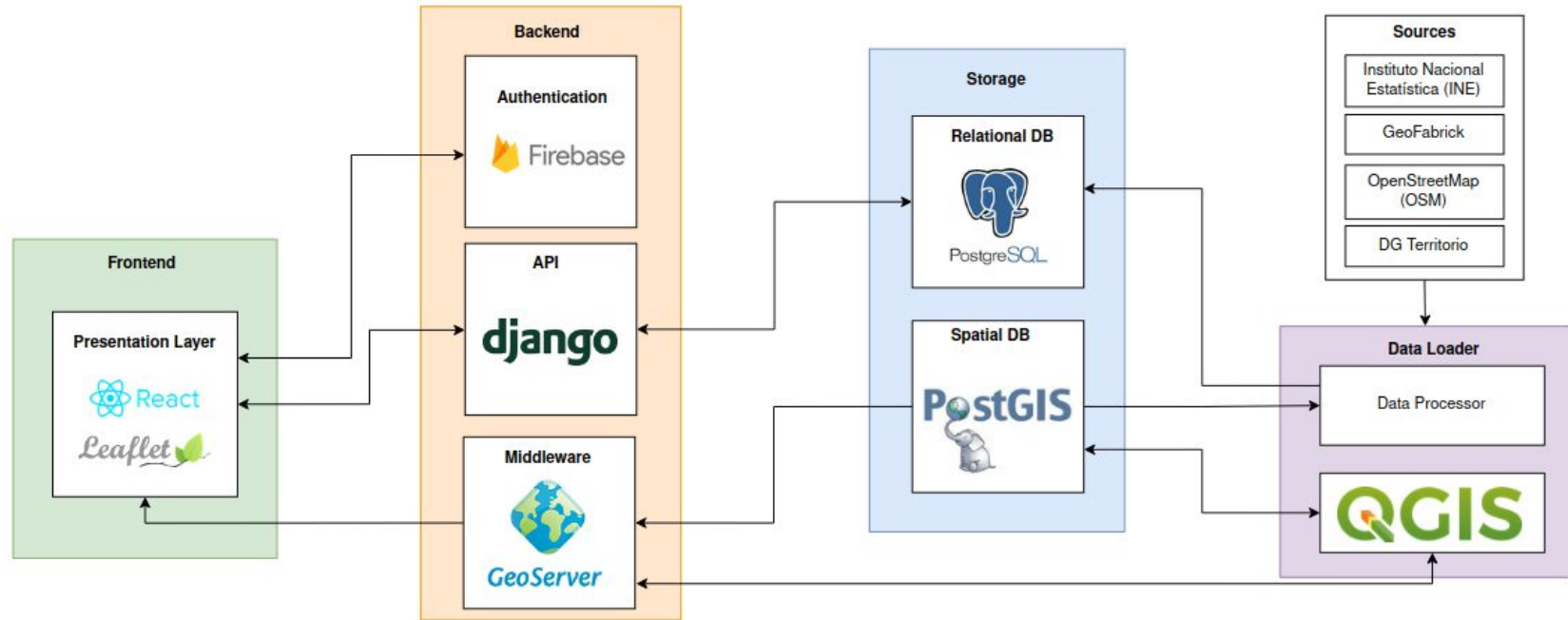


Figure 2 - Architecture

DEPLOYMENT ARCHITECTURE

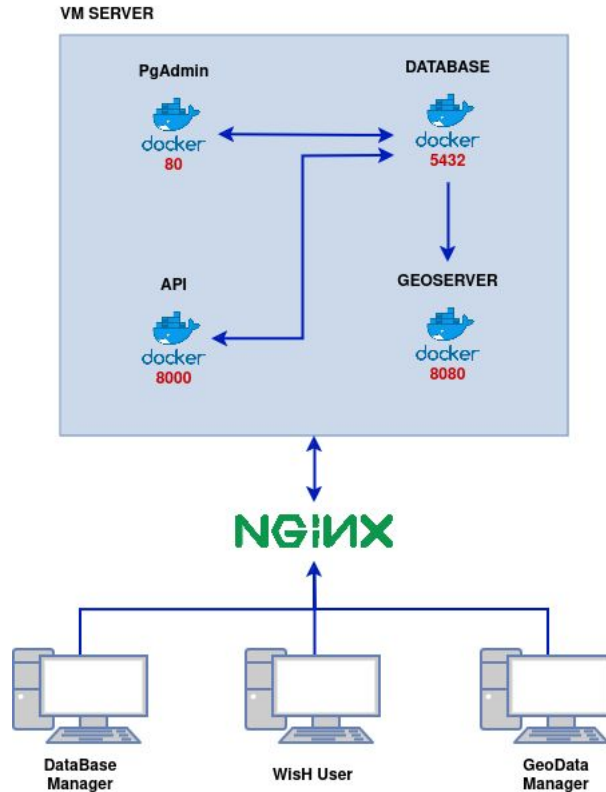
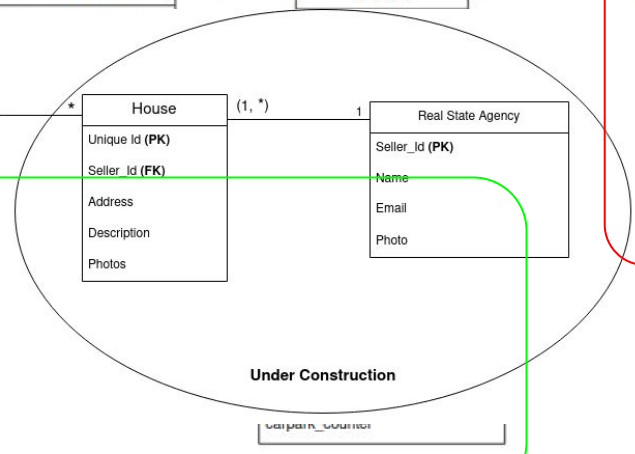


Figure 3 - Deployment Architecture



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!



Aveiro

What are you looking for?

Commerce



Nothing

Very Important

Social leisure



Nothing

Very Important

Health



Nothing

Very Important

Nature sports



Nothing

Very Important

Service



Nothing

Very Important

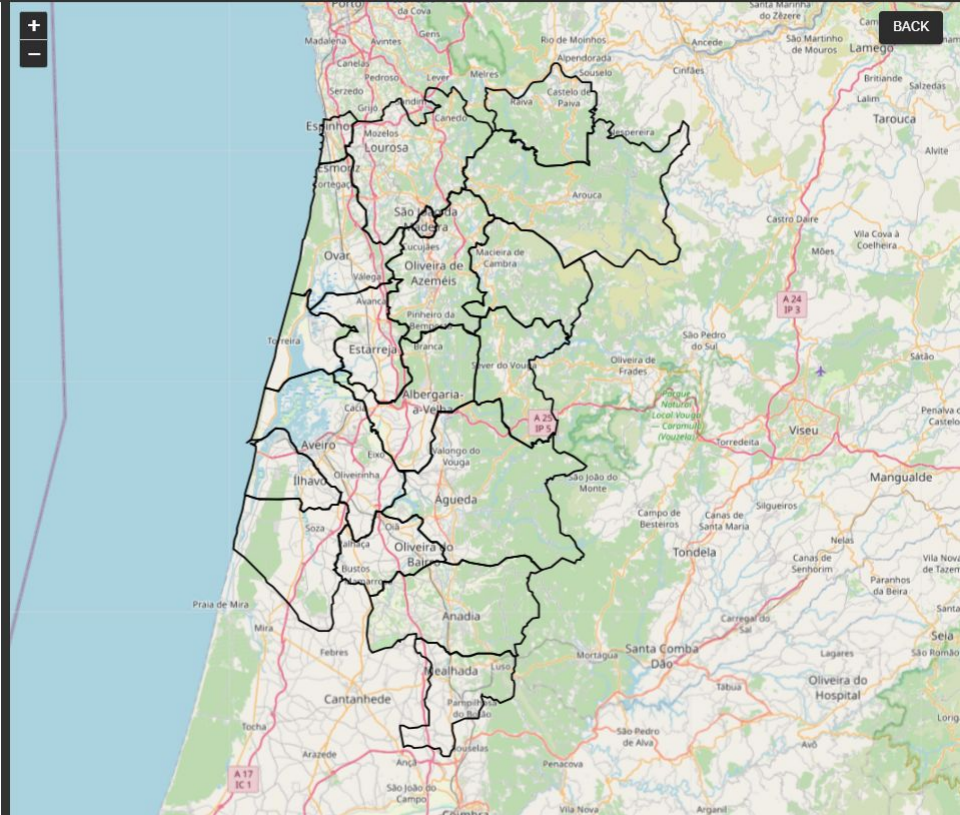
Education



Nothing

Very Important

Next





Commerce

Social Leisure

Health

Nature Sports

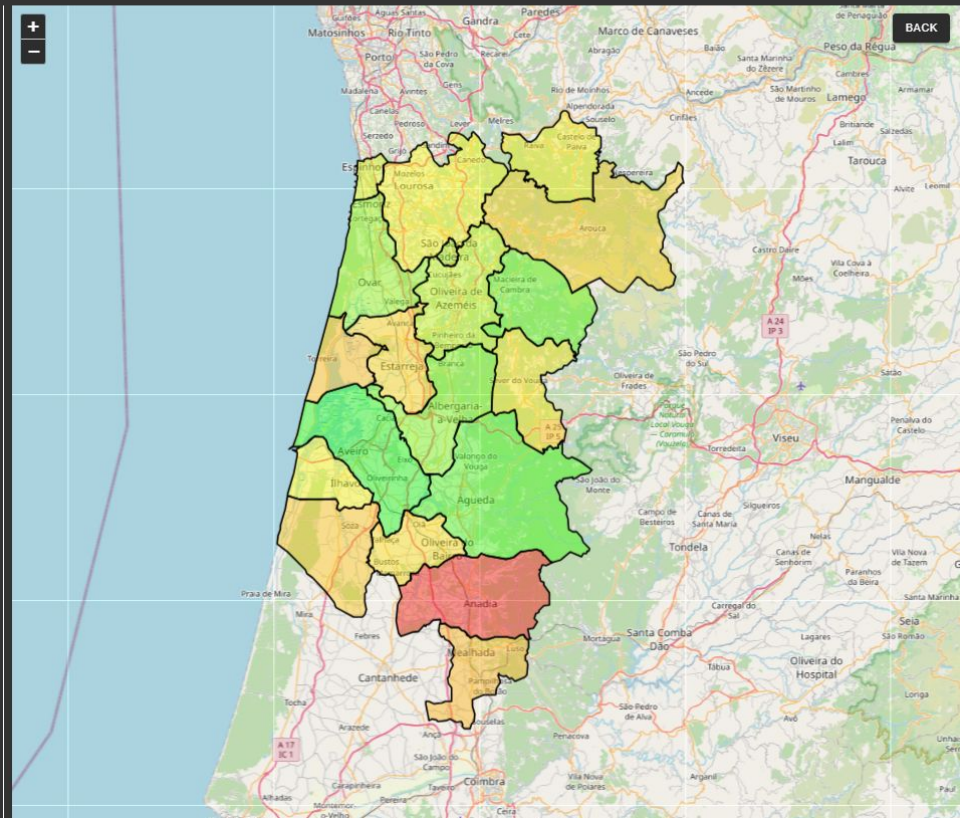
Service

Education



Previous

Search





Where is Home

About Us

PT | EN



Adjust your preferences

Health

Nature and Environment

Culture

Educational

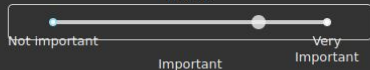
Sport

Commerce

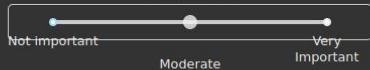
Social and Leisure

Service

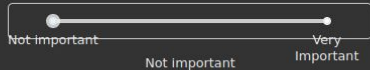
Bank:



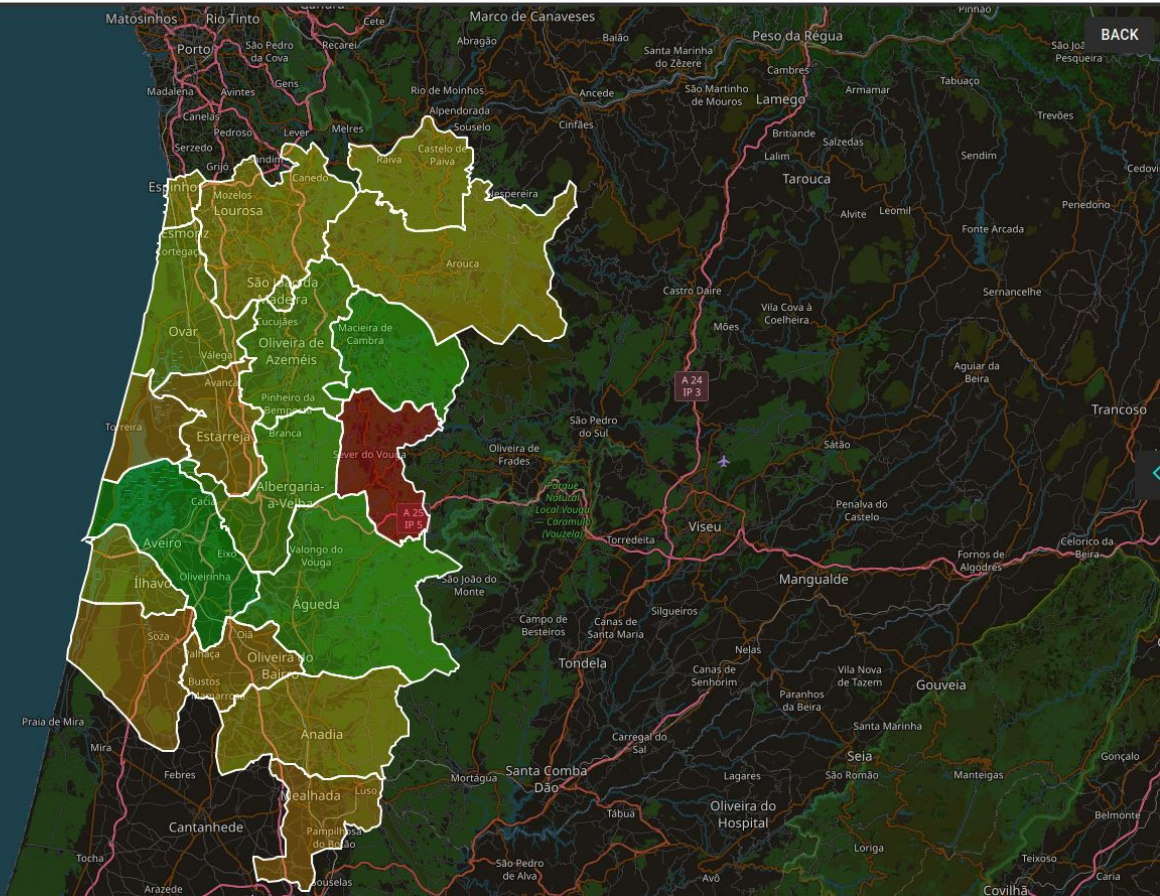
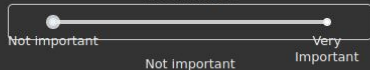
Post Office:



Police Station:



Fire Station:



BACK

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Wish

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About Us

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Login

Properties

Apartamento T4

Praia Grande, Torres

4 2 5 241.00m²
170.000\$



Casa T3

Centro da Cidade, Lisboa

3 1 3 150.00m²
250.000\$



Vivenda T2

Avenida Principal, Porto

2 1 2 100.00m²
120.000\$



Vivenda T2

Avenida Principal, Porto

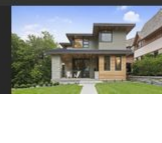
2 1 2 100.00m²
120.000\$



Vivenda T2

Avenida Principal, Porto

2 1 2 100.00m²
120.000\$



BACKEND

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EVALUATION METRICS

City/County	District	Pharmacies	Hospitals
	Aveiro (01)		
	Aveiro (0101)		
	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

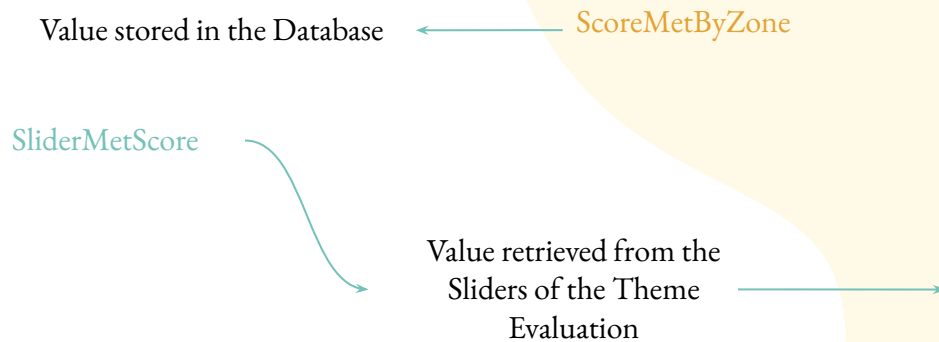
Take the highest value and divide all scores by that value, obtaining a comparison score between each by metric

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



Portugal

What are you looking for?

Commerce	<input type="range"/>
	Nothing Very Important
Social leisure	<input type="range"/>
	Nothing Very Important
Health	<input type="range"/>
	Nothing Very Important
Nature sports	<input type="range"/>
	Nothing Very Important
Service	<input type="range"/>
	Nothing Very Important
Education	<input type="range"/>
	Nothing Very Important

Next

SliderThemeScore

Value retrieved from
the Sliders of the
Metric Evaluation

$$\text{ScoreThemeXByZoneX} = (\text{ScoreMetByZone} \times \text{SliderMetScore}) \times \text{SliderThemeScore}$$

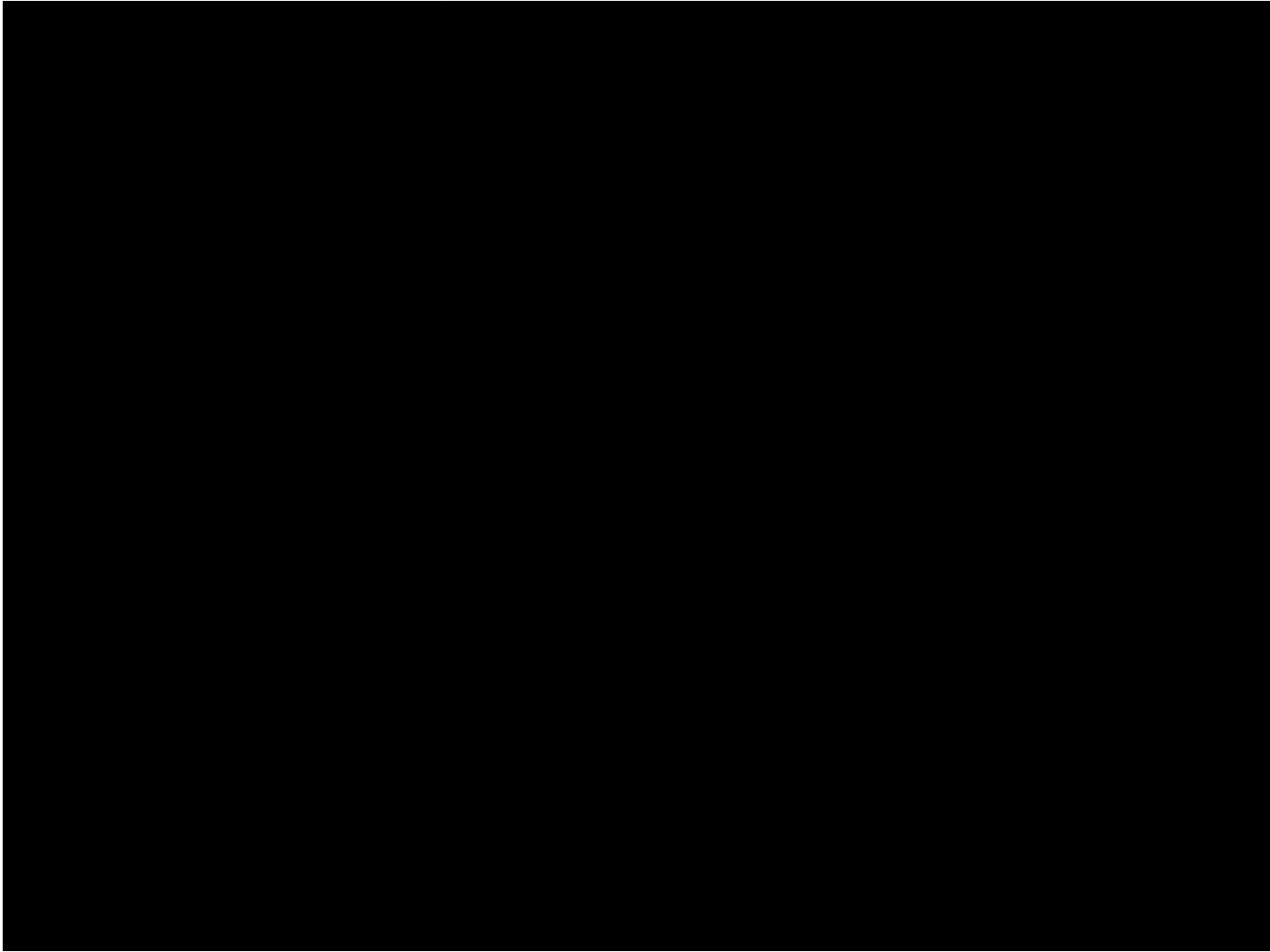
$$\text{FinalScoreZoneX} = \text{ScoreTheme0ByZoneX} + \text{ScoreTheme1ByZoneX} + \text{ScoreTheme2ByZoneX} + \text{ScoreTheme3ByZoneX} + \dots$$

Sum of all Theme Score for zone X

DEMO

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FUTURE WORK

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Future Work

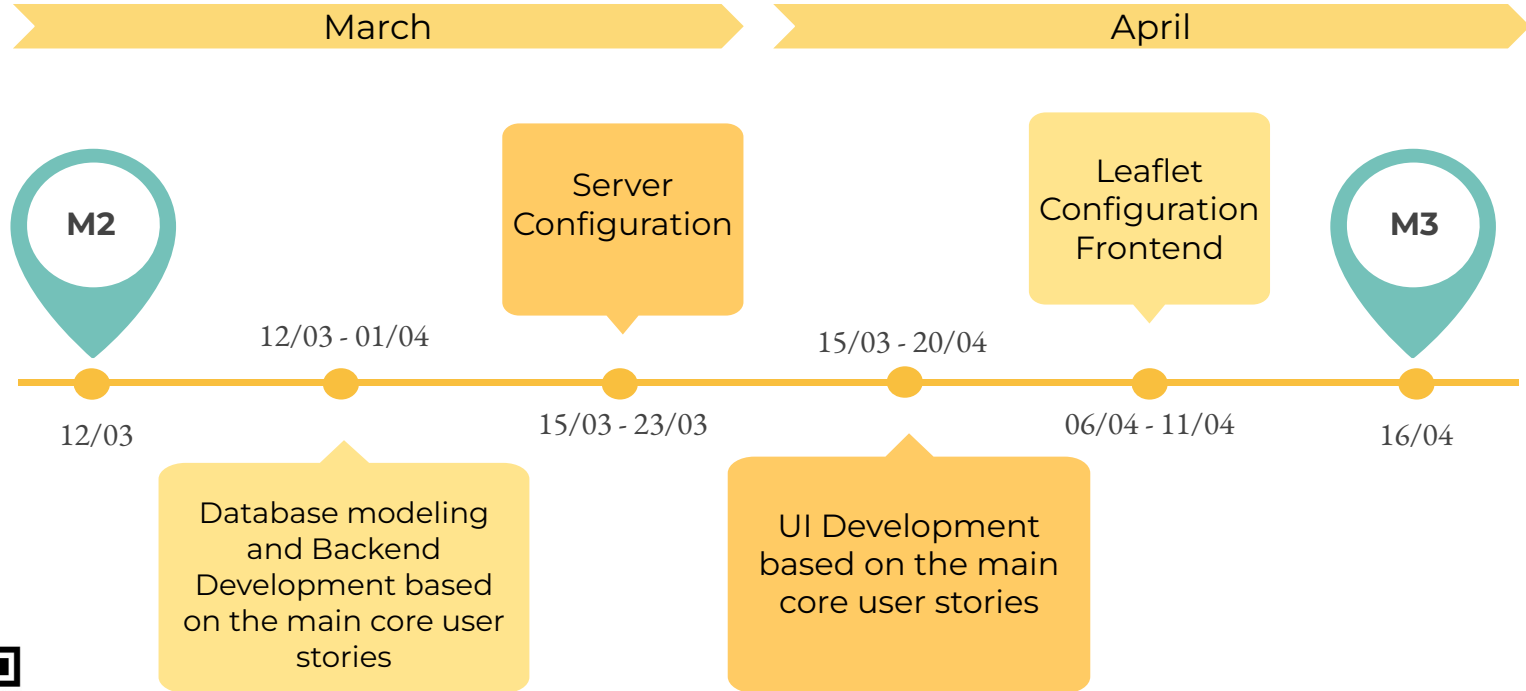
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- Insert Student Residences into Third Page
 - Complete Student driven prototype and Reunion with Professor João Marques
 - Present the prototype to “Serviços de Ação Social”

CALENDAR

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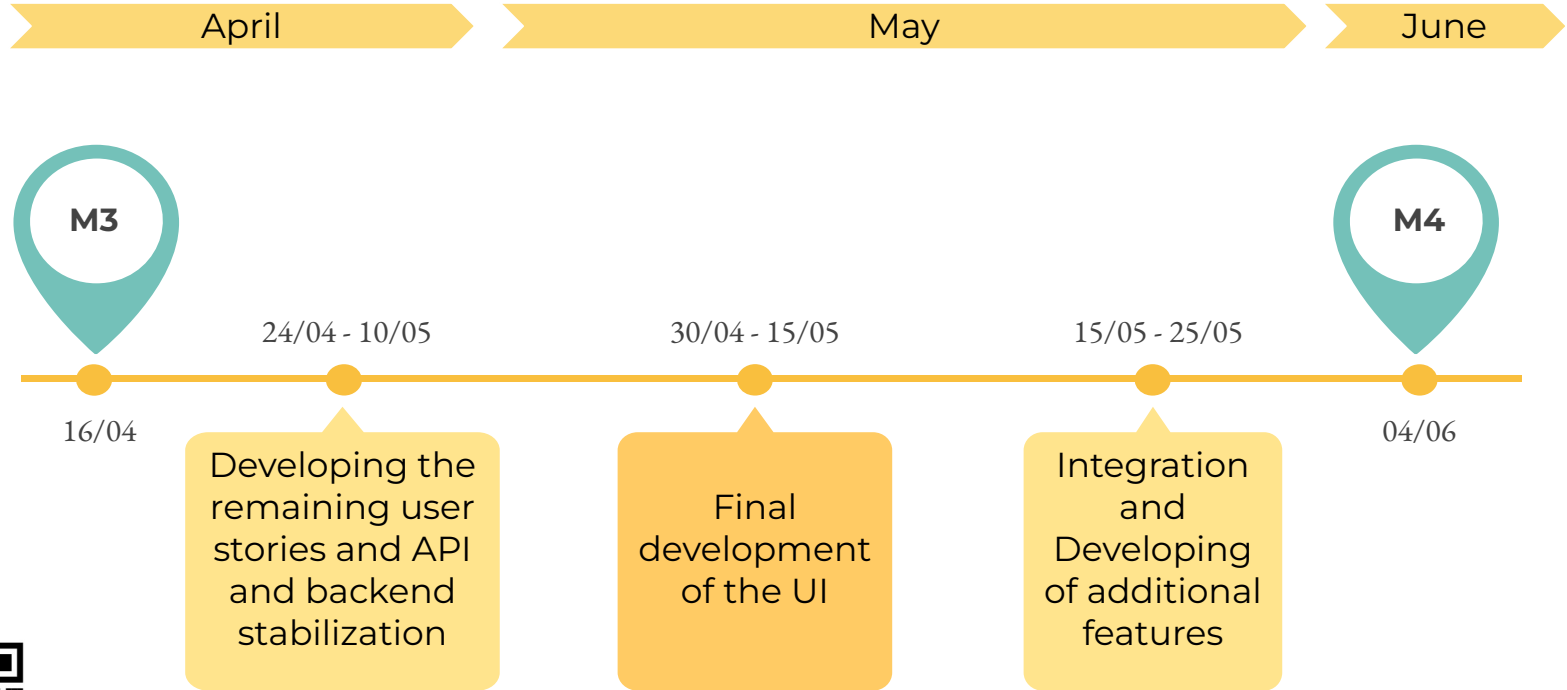
PROJECT CALENDAR



Calendar



PROJECT CALENDAR



Calendar



THANK YOU

Does anyone have any questions?



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

