

Back End e API de serviços de suporte a múltiplos Sistemas de Gestão de Destinos

LUSITRAVEL

Orientador: Osvaldo Pacheco
Professor da UC: José Moreira

Grupo 11

Lara Matos 95228
Sara Gonçalves 98376
Mariana Silva 98392
João Figueiredo 98506
Pedro Santos 98158

Contents

01

Introduction

02

Methodology

03

Implementation

04

Demo

05

Conclusion

06

Future Work

01

Introduction

- 1. Team**
- 2. Context and Problem**
- 3. Motivation and Objectives**

Team

João Figueiredo



Mariana Silva



Lara Matos



Sara Gonçalves

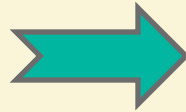


Pedro Santos

Orientador: Prof. Osvaldo Pacheco

Context

Destination Management Organization



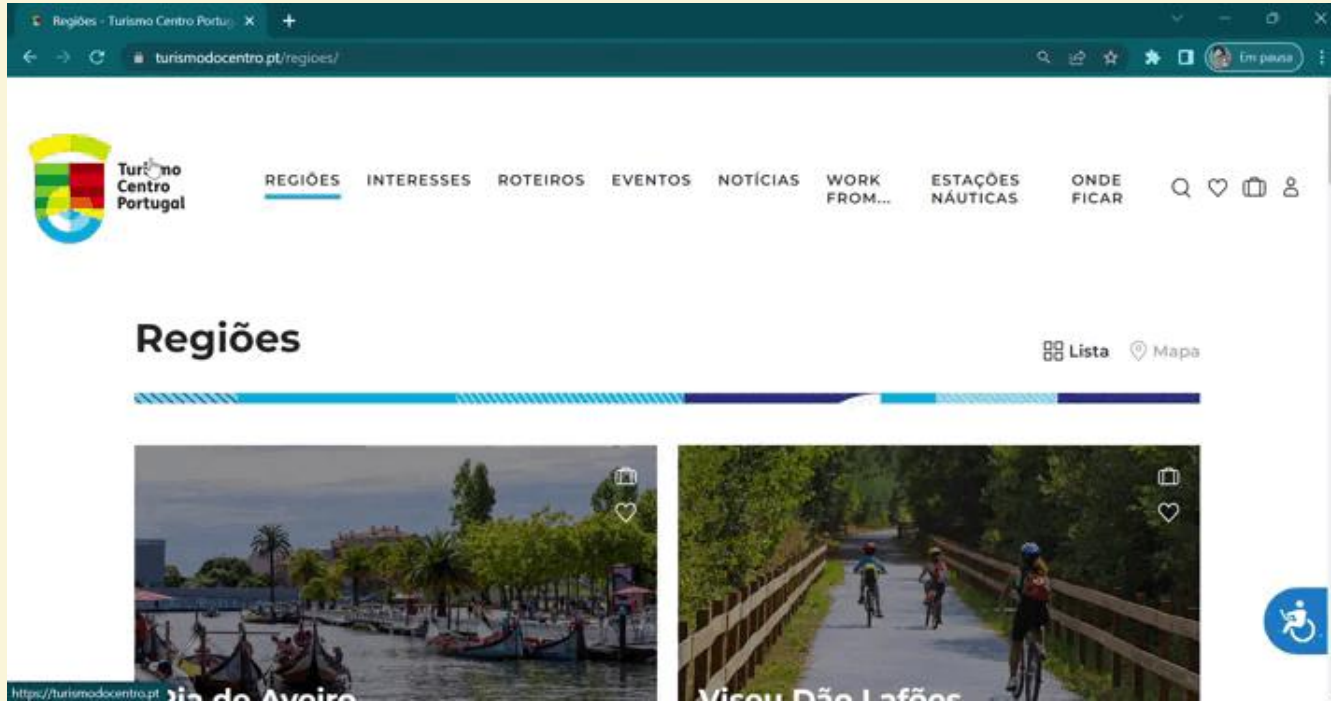
Organizations responsible for the management/promotion of destinations

Destination Management System



Set of platforms that bring together data about a particular destination through the combination of different tourist agents

SGD Example



Problems

- Quite high cost for an individual solution.
- Technological difficulties and willingness of agents to adopt DMSs.
- In Portugal there is no Destination Management System that uses a similar single backend.



Objectives

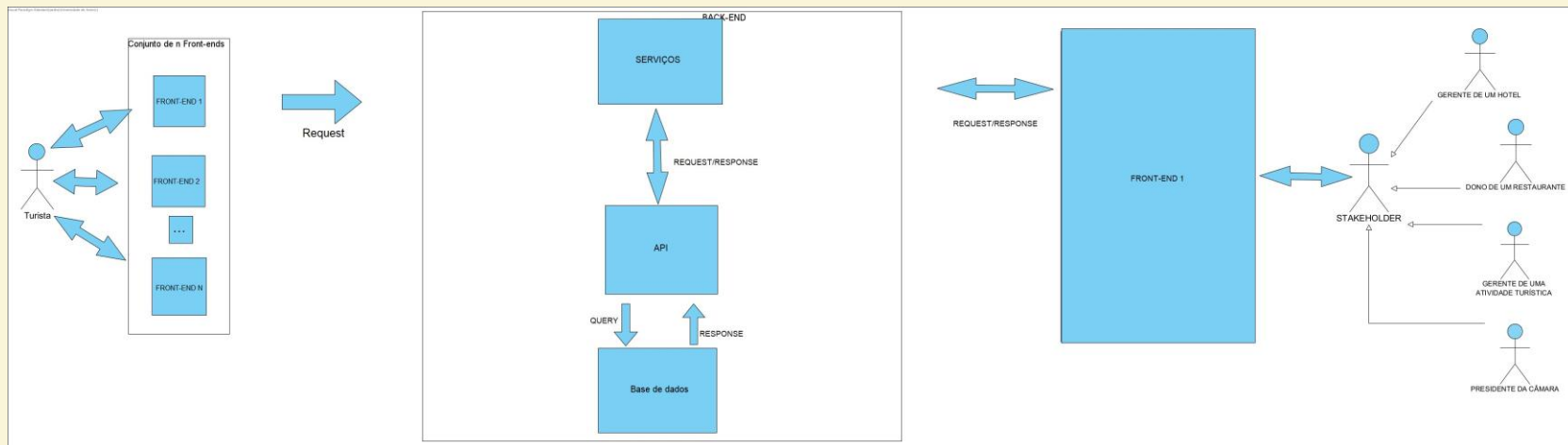
- Create a single back-end and API that is capable of supporting multiple DMSs.
- Develop several applications or portals from different DMOs with the back-end and the API.
- Easy and fast interaction with any organization and adaptation to any front end.
- Interactive as possible to allow any DMO to be able to use it and take advantage of its potential.

02

Metodology

- 1. Architecture**
- 2. Technologies**
- 3. Timeline**

Architecture



django



mongoDB®

Timeline

[illegible]

03

Implementation

- 1. Difficulties**
- 2. Functionalities**

Difficulties and solutions

Gathering requirements and features

Meetings with the advisor for feedback and research related work. Study of the theme and interests of the stakeholders.

Architecture specification

Discussion among the team regarding the technology choices.

Technologies choices

Explore diverse technologies and their respective implementations, understanding which ones fit better.

Database Integration

Learned to use Mongo and Firebase. It took a little time and tries, but the result was achieved.

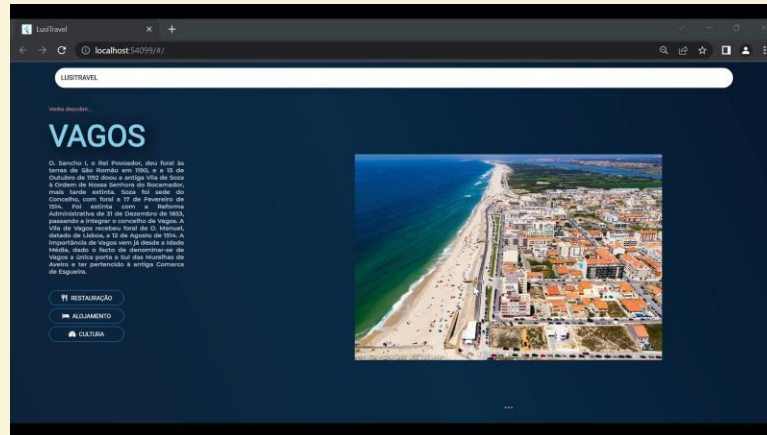
Main Features

- Sign up and Log In
- Company registration
- Region of activity registration
- Services registration of 3 types
- Edit/Delete services

- Advertise services according to region
- Easily create front-ends for DMS.

04 DEMO

Demo



05

Conclusion

Conclusion

- ✓ Development has reached an advanced level
- ✓ Prototype shows that this can be turned into a real product
- ✓ Great potential to improve tourism



06

Future Work

FUTURE WORK

- Two-way communication integration
- Security
- Control API traffic
- Alerts/Notifications
- Expansion of services
- Mechanism to verify veracity of services/companies



Resources

- J. Estêvão, «Sistemas de gestão de destinos turísticos: contribuições para a sua adoção e implementação», <https://ria.ua.pt/bitstream/10773/29063/1/Jo%c3%a3o%20Pedro%20Vaz%20Pinheiro%20Estev%c3%a3oDoutoramento.pdf>, tese de doutoramento, Universidade de Aveiro, 2020.
- M. Khosrow-Pour, Encyclopedia of Information Science and Technology. IGI Global, 2008.
- A. Petronilho. «Turismo pesa 8% do PIB». (2022), URL: <https://www.jornaldenegocios.pt/empresas/turismo---lazer/detalhe/turismopesa-8-do-pib>.
- C. Martins, C. Costa e O. Pacheco, «Sistemas de Gestão de destinos e a adoção tecnológica: Desafios para as organizações de gestão de destinos», Turismo e Desenvolvimento, 2014, <https://proa.ua.pt/index.php/rtd/article/view/11551/7579>.
- C. Martins, «Determinantes da implementação de uma estratégia de negócio eletrónico por parte das organizações de gestão de destinos turísticos», <https://ria.ua.pt/bitstream/10773/23360/1/Tese.pdf>, tese de doutoramento, Universidade de Aveiro, 2018.
- «Documentação de Django». (2022), URL: <https://docs.djangoproject.com/en/4.1/>.
- «Documentação de Flutter». (2022), URL: <https://docs.flutter.dev/>.
- «Turismo do centro». (2022), URL: <https://turismodocentro.pt/>.
- «Turismo de Bragança». (2022), URL: <https://turismo.cm-braganca.pt/>.

CREDITS: This presentation template was created by **Slidesgo**, and includes icons by **Flaticon**, and infographics & images by **Freepik**