

# APOIO AO SERVIÇO DOCENTE

Dissertations Made Simple





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# PROJECT CONTEXT

The screenshot shows a web-based application titled "DISSERTAÇÕES" from September 12, 2025. The interface includes a header with a user profile for "Guilherme Mendes Mesquita" and navigation links for "Calendário" and "2025/2026". A search bar and a legend for filters are also present. The main content area displays a list of 8 out of 112 results, each entry containing the title, supervisor(s), courses, and areas of study. The results are as follows:

Título e Orientadores	Cursos	Áreas
Certificação da Cadeia de Fornecimento das IES no contexto da NIS 2 João Paulo Silva Barraca   Bernardo Sequeiros	MCS	Segurança e Privacidade
Controlo de robô colaborativo a partir de um sensor HTC VIVE Tracker 3.0 Marco Paulo Soares dos Santos	MEAI	Automação (MEAI)
Teleoperation of an Autoware-based Autonomous Vehicle Paulo Bartolomeu   Joaquim José de Castro Ferreira	MECT MEET +2	Arquitetura dos Sistemas Computacionais Sistemas de Informação +2
Road Accident Ontology: A Semantic Approach to Analysis and Prevention Eloisa Catarina Monteiro de Figueiredo Amaral e Macedo   Ciro Alexandre Domingues Martins	MEAI	Metodologias de Computação Sistemas de Informação +1
Integrating the 15 Minute City Concept and Smart Poles: Optimising Resources and Minimising Costs for Sustainable Cities Eloisa Catarina Monteiro de Figueiredo Amaral e Macedo   Luis Jorge dos Santos Gouveia Marques Gonçalves	MEAI	Ciência e Tecnologia da Programação Sistemas de Informação
Desenvolvimento de um sensor para a medição da temperatura operativa Nelson Amadeu Dias Martins	MEA MEAI +1	Engenharia Aeroespacial Controlo

- Platform for managing MSc dissertations at DETI
- Current system has functional limitations
- Some processes are still manual and difficult to manage
- Goal: Extend the platform to cover the full dissertation lifecycle and future integrations



# PROBLEM

Manual processes

01.

Inflexible in its rules

02.

Unfinished functionality

03.

Lacking reports

04.

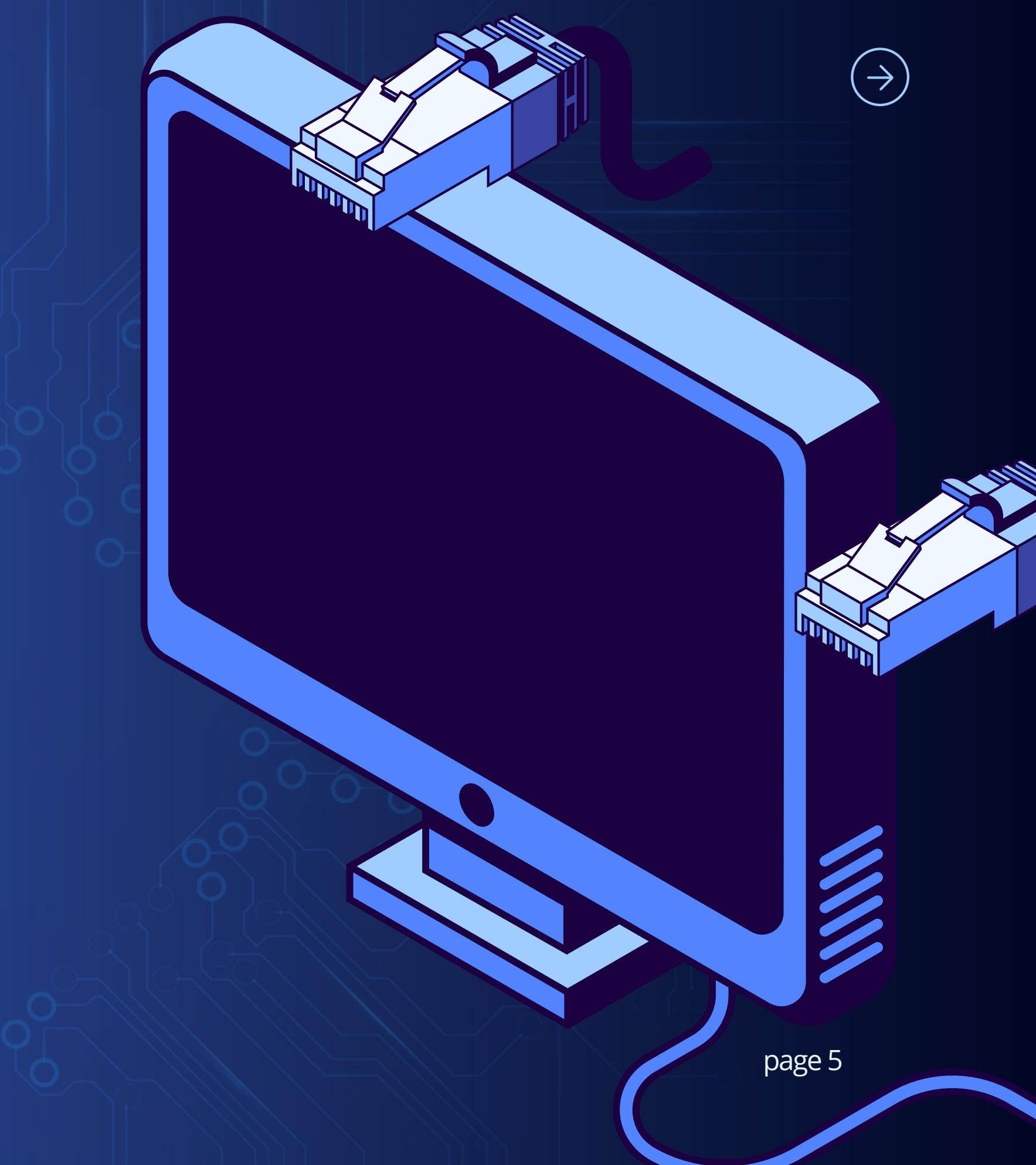
No document signing

05.



# GOALS

- Implement document signing
- Automate jury management
- Streamline internship workflow
- Manage defense and final submission workflow
- Develop mobile prototype





# POSSIBLE CHALLENGES



- **It's a pre-existing platform**
  - We're inheriting technical debt and unfinished functionality
  - New features need to fit existing architecture
- **Finish features ahead of time**
  - Feature freeze in April, only testing afterwards
  - New platform will be deployed in May (this school year!)
- **Some requirements may demand more extensive validation with multiple stakeholders**



# EXPECTED RESULTS

- Improved platform with new features and a modular architecture
- Fully functional document signing and automated defense management
- MVP prototype integrating backend and frontend (FastAPI + React)
- Comprehensive technical documentation and evolution plan for next semester
- Solid foundation for future integration with joint master's programs across UA

# MAJOR MILESTONES



# 2025

**Implement some management features:**  
Jury and defense management

**M1.** **October 28th**  
Lifecycle objectives.  
Project calendar for 1st  
semester.

**M2.** **November 18th**  
Present project requirements  
and planning of subset of  
features.

**M3.** **December 16th**  
Presentation of prototype/MVP.

# MAJOR MILESTONES



# 2026

Implement remaining features.

Debug and deploy.

Write documentation.

Full calendar to be decided.

**Feature freeze:** April 1st

**Deployment:** Early May

# RELATED WORK

- Original DSD platform: developed by previous *PI* groups and used today by *DETI*
- *FenixEdu* (IST) and *SIGA* (university): academic management systems that inspire similar functionalities





# COMMUNICATION PLAN



# THANK YOU



<https://pei-dsd-2025.github.io/microsite/>

