

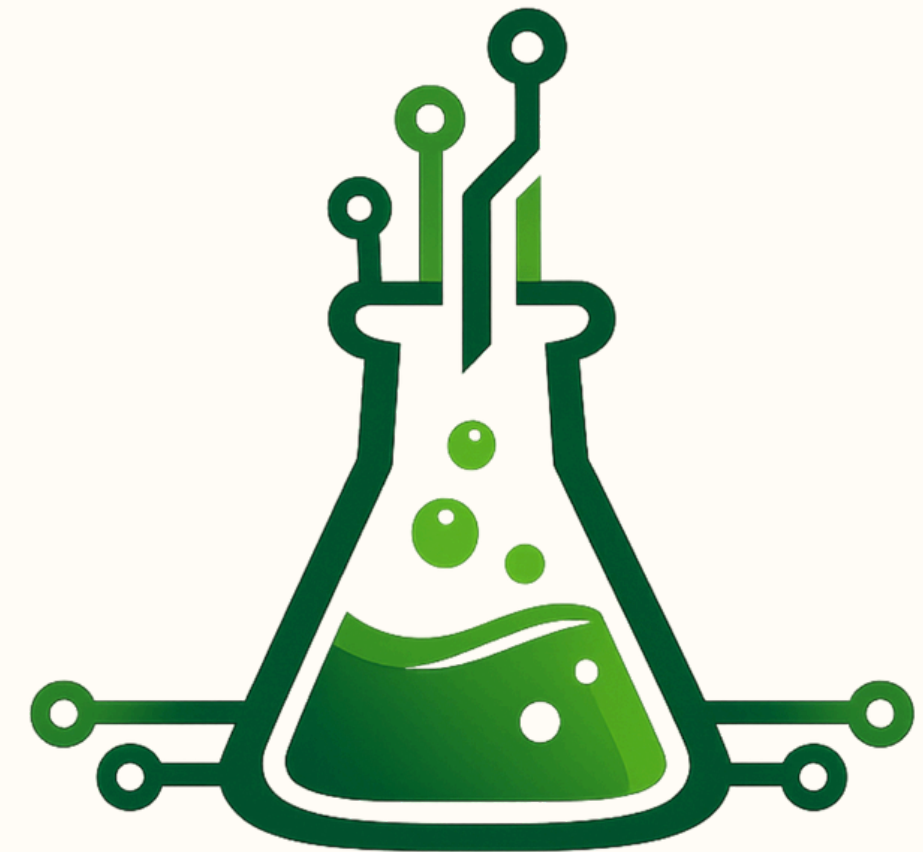


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INFORMATION SYSTEM FOR PROJECTS, GROUPS AND EQUIPMENT REQUISITIONS

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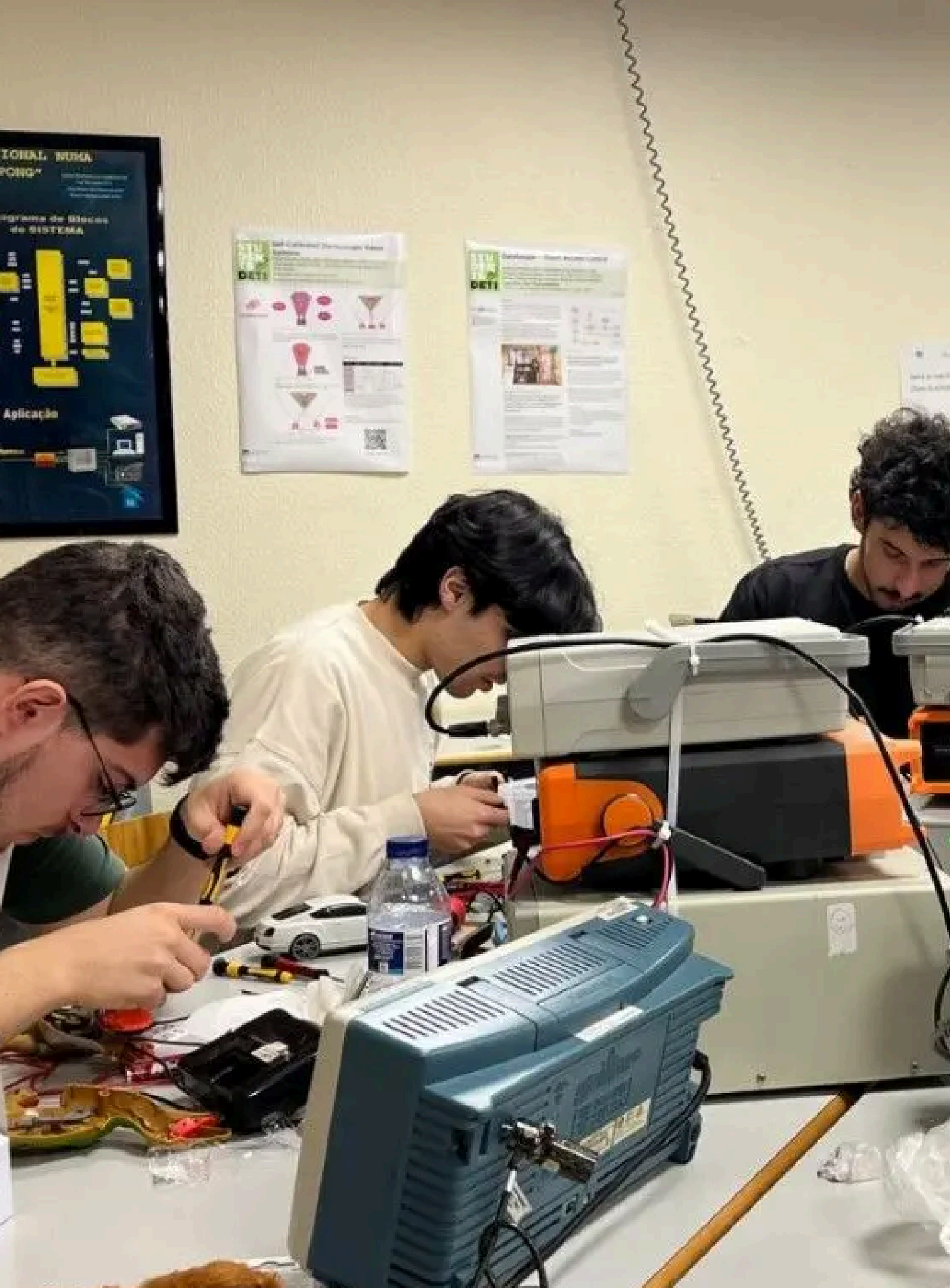
CONTEXT

What exists for now:

- Wiki-based platform is the operational backbone: projects, equipment, requisitions, documentation.
- The requisition process is too complex and inconvenient to handle.
- Current “project creator” being in Markdown is inconsistent and slows data entry as well as database use.

Consequently, there is a need for a system where requisitions can happen via the project, where a group can request and manage equipment repeatedly and easily at any time of the project lifecycle.





STAKEHOLDERS & PRIORITY

One of the most important steps in project development to be done at its early stages is the identification of the stakeholders, who are:

- Students (groups): need easy requisitions and clear guidance
- Lab technician: must be able to manage inventory simply; not an IT specialist

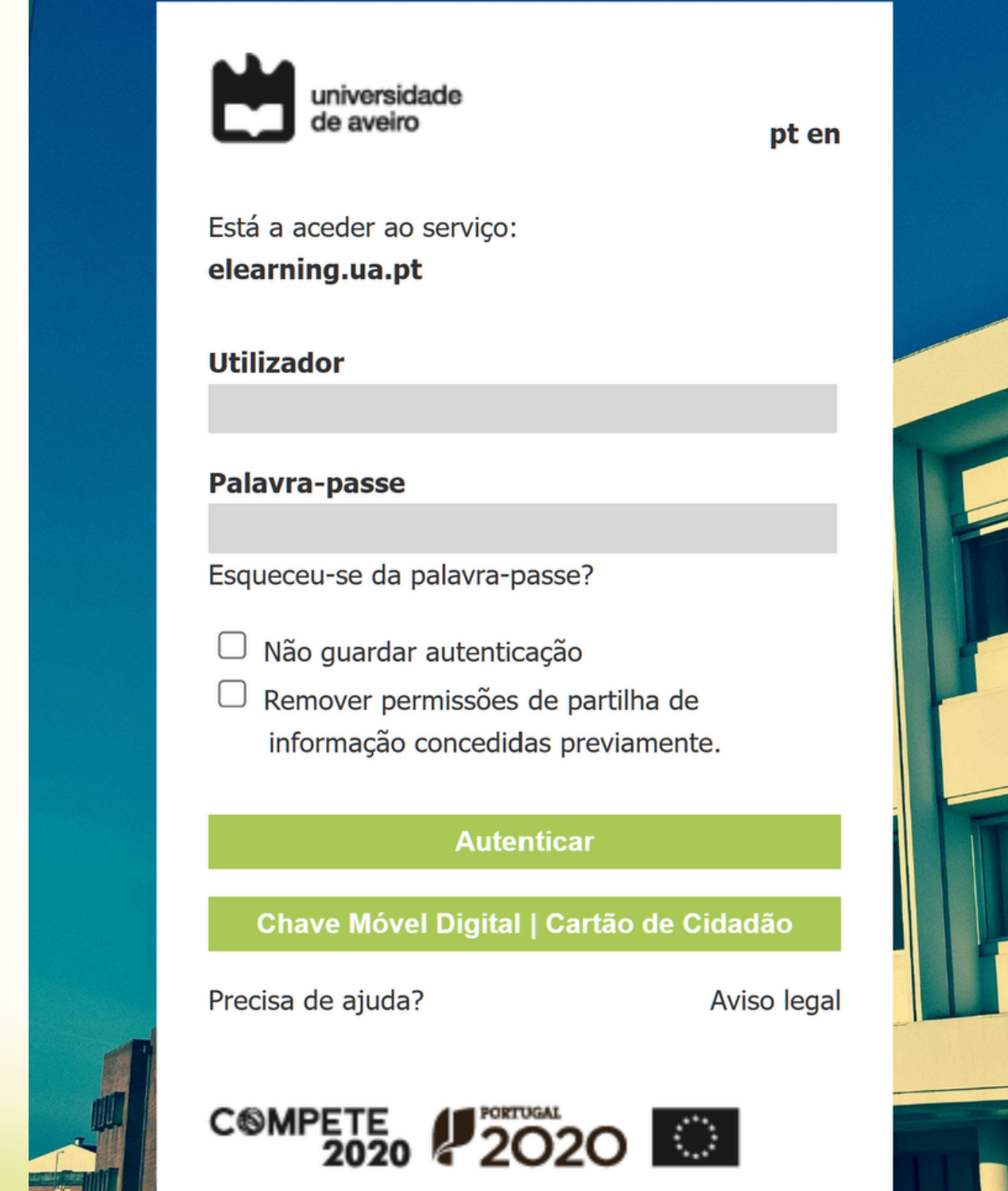
Priority = Guidance for groups

PROBLEM STATEMENT

THE CURRENT MAKER LAB PLATFORM WORKS, BUT EQUIPMENT REQUISITIONS ARE TOO CUMBERSOME AND DATA MODEL IS TOO MARKDOWN-ORIENTED, SO USAGE DROPS AND EQUIPMENT TRACKING BECOMES HARDER THAN IT SHOULD BE.

OBJECTIVES

- Integrate Maker Lab system with Snipe-IT - switch from the current wiki equipment management
- Enable a simple requisition workflow that groups can use repeatedly throughout the project lifecycle
- Replace Markdown project creation with form-based input to ensure consistent, database-ready data
- Connect projects, groups, students, requisitions, and lent equipment in one information system
- Authentication integrated with the university “universal user”
- Improve Android + IOS app work



EXPECTED RESULTS

- A working requisition workflow: request -> approve -> assign -> return, usable repeatedly during the project
- Snipe-IT used as the authoritative inventory system, with requisitions reflected in equipment status
- Form-based project creation stored in database (consistent fields, easy reporting)
- The solution integrates with existing Maker Lab content where needed

RELATED WORK & TECHNOLOGIES

- Existing base: wiki-based Maker Lab system + mobile apps (Android done but needs to be renewed, iOS unfinished)
- Inventory: Snipe-IT for stock/assets
- Collaboration:

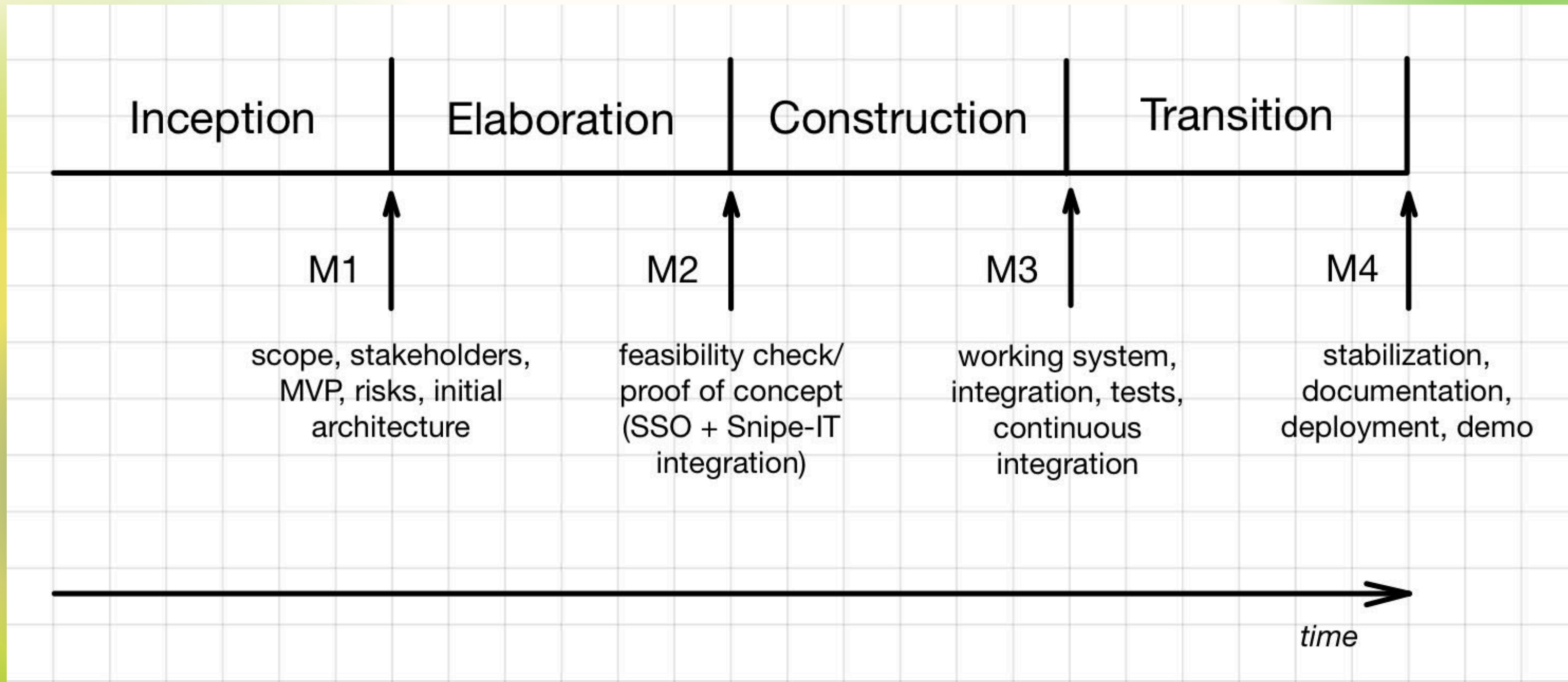
Code	GitHub
Planning	GitHub Projects
Documentation	Google Docs
Communication	Slack/WhatsApp

- Constraints: preserve installed base, do not discard the previous system



CALENDAR

WE FOLLOW THE OPENUP METHODOLOGY:



COMMUNICATION

- Weekly meeting minimum (depending on the workload)
- Slack (mostly for communication with supervisor); WhatsApp (internal, urgent group communication)
- GitHub for code and reviews; GitHub Projects as our task manager
- Google Docs as the team notebook for storing meeting notes, decisions and ideas



DIVISION OF TASKS - TEAM RESPONSIBILITIES

Team role	Person assigned	Responsibilities
Coordinator	Jakub Suliga	Planning, backlog, meeting notes, stakeholder follow-up
Tech Lead	Laura Gabryjańczyk	Architecture + SSO + Snipe-IT integration
Backend	João Martins	DB design + requisition workflow APIs (request/ approve/return)
Frontend/UX	André Silva	Forms + requisition UI + usability
QA/DevOps	Manuel Mendonça	Tests + CI + release/demo readiness



PROJECT WEBSITE

<https://deti-maker-lab.github.io/>



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**THANK YOU FOR
YOUR ATTENTION.**

ANDRÉ SILVA, MANUEL MENDONÇA, JOÃO MARTINS,
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