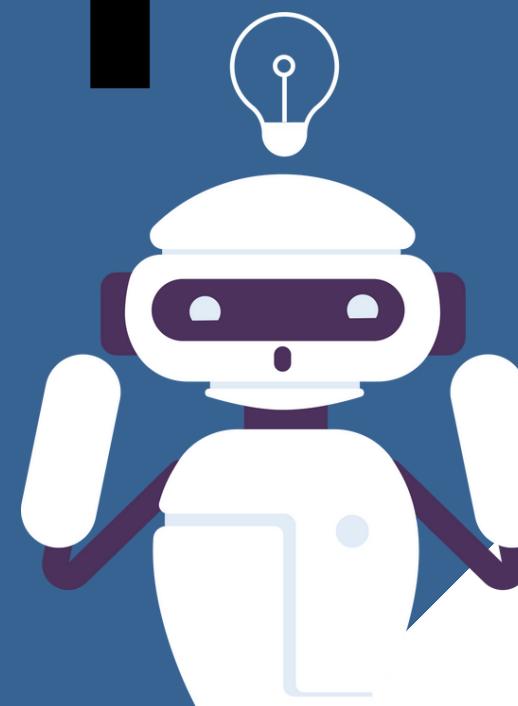


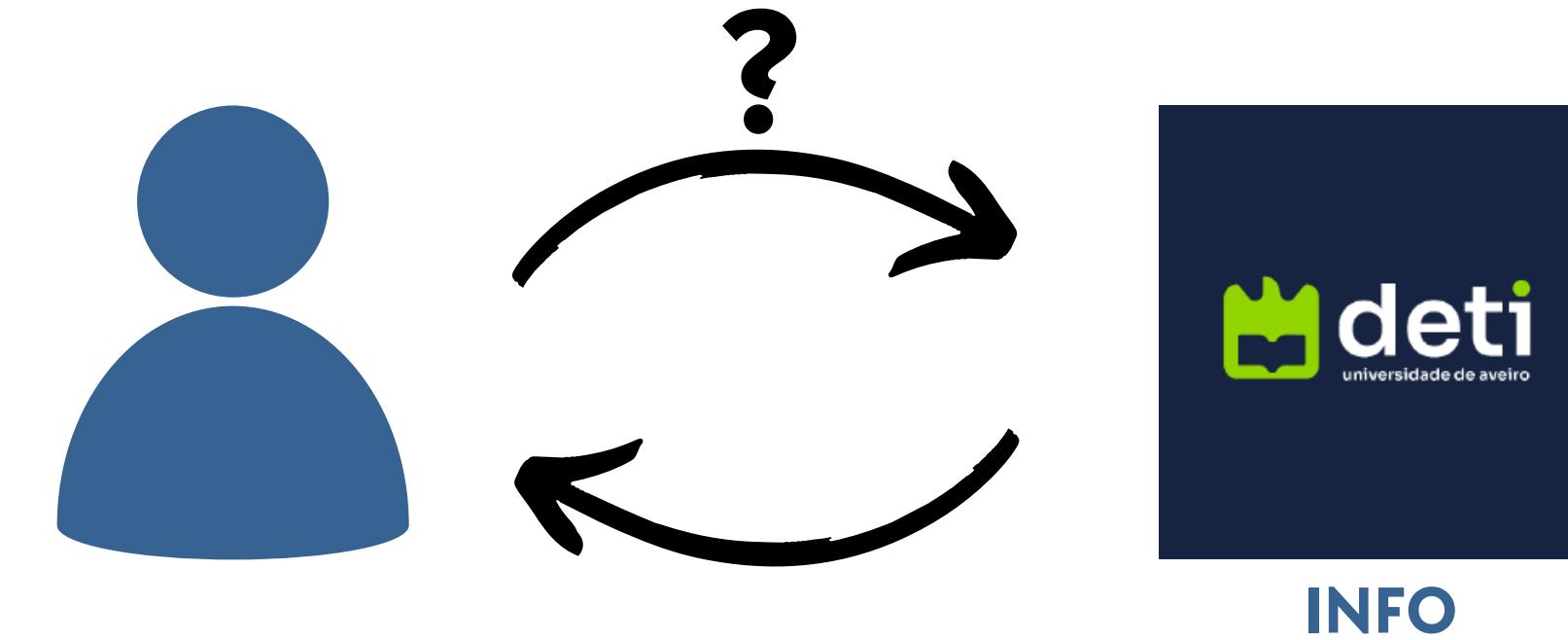


# DETIBOT



Grupo nº12  
Projeto nº13

# WHAT IS DETIBOT?



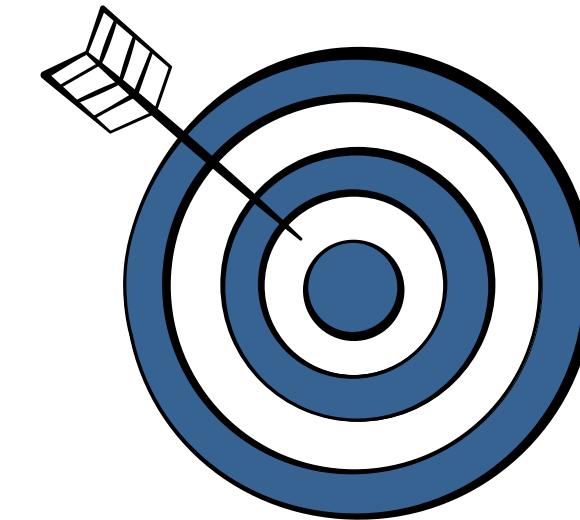
**Situation** - wide variety of sites, portals and communication services (e.g. discord, slack, etc) that contain different types of information.

**Problem** - too many different sources, information widely spread.

**Idea** - an agent that answers any question about the department correctly

# TARGET

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 **STUDENTS**

to know about events, room locations, schedules, services

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 **PROFESSORS**

know of events, educational files, administrative contacts, research groups, and projects

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 **STAFF**

easy access to different DETI contacts

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 **VISITORS**

DETI presentation, demos, projects, and events open to the public

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# TEAM ROLES

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**Inês Ferreira**

**Product Owner**

**Guilherme Lopes**

**Team Manager**

**Simão Antunes**

**Architect**

**Pedro Matos**

**DevOps**

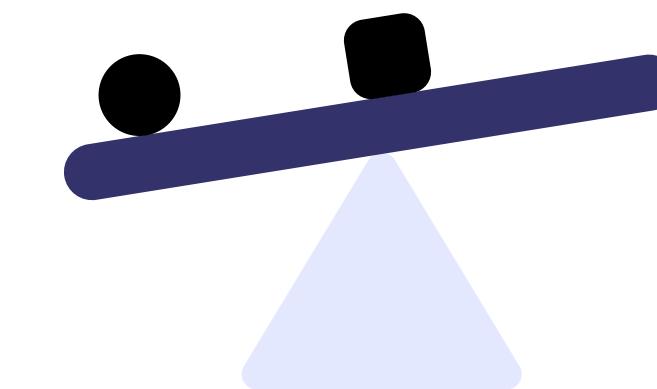
**Diogo Gaitas**

**QA Tester**

**Mário Antunes**

**Advisor**

# SWOT ANALYSIS

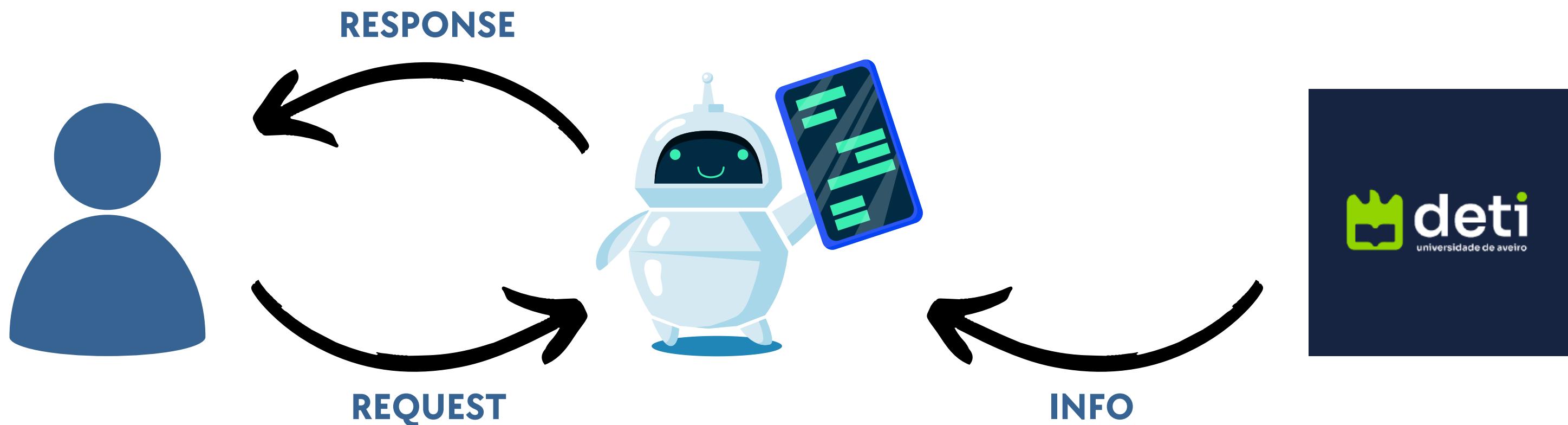


	Strengths	Weaknesses
Internal	<p>Natural interaction with user</p> <p>Encompasses lots of information</p>	<p>Dealing with fragmented information</p> <p>Dependency on other tech</p> <p>Prevent inadequate answers from agent</p>
	Opportunities	Threats
External	<p>AI market in extention</p> <p>Using innovative technology to boost/rejuvenate DETI</p> <p>Taking advantage of the lack of centralized information</p>	<p>Difficulty accessing/updating/compartmentalizing information</p> <p>Difficulty in ensuring infrastructure</p>

# DETI BOT-DEVELOPING

“This project aims to develop a DETI Bot agent that leverages both Large Language Models (LLMs) and Retrieval-Augmented Generation (RAG) to monitor and index all relevant data sources pertaining to departmental activities. The bot will offer diverse interfaces for the community to seamlessly interact with this information. “

from “Project planning tasks” slides



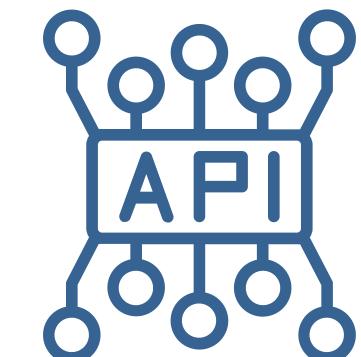
# KEY FUNCTIONALITIES

INFORMATION GATHERING FROM DIFFERENT DETI  
WEBSITES/DOCUMENTS

OPTIMIZED INFORMATION INDEXING

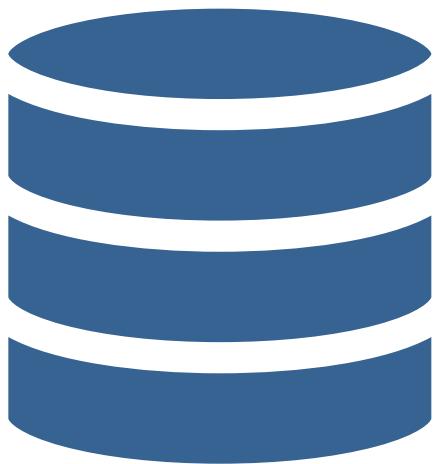


UNIFIED API WITH ACCESS TO MULTIPLE FRONT-  
END POSSIBILITIES (WEB PAGE, IM BOTS)



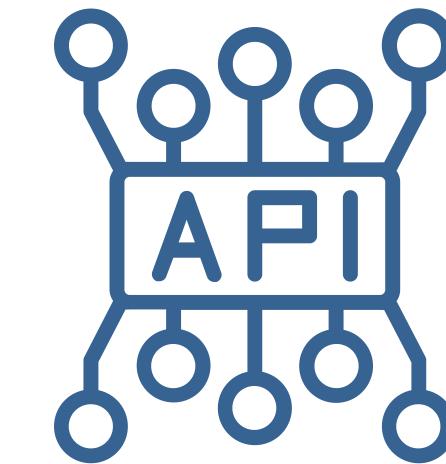
# PLANNING

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**Database**

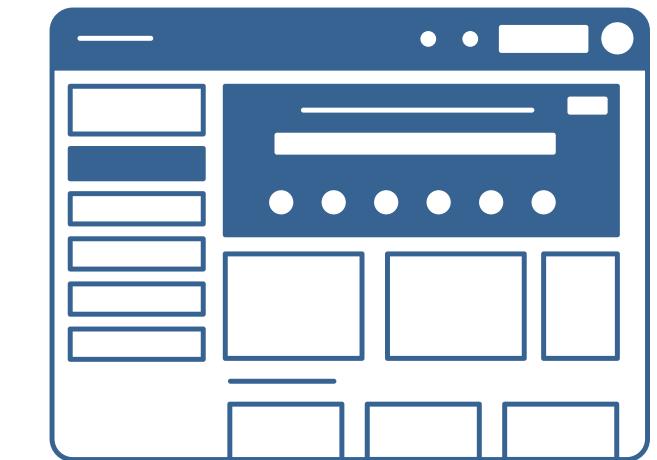
**RAG**



**API**



**DETI's info**



**Frontend**

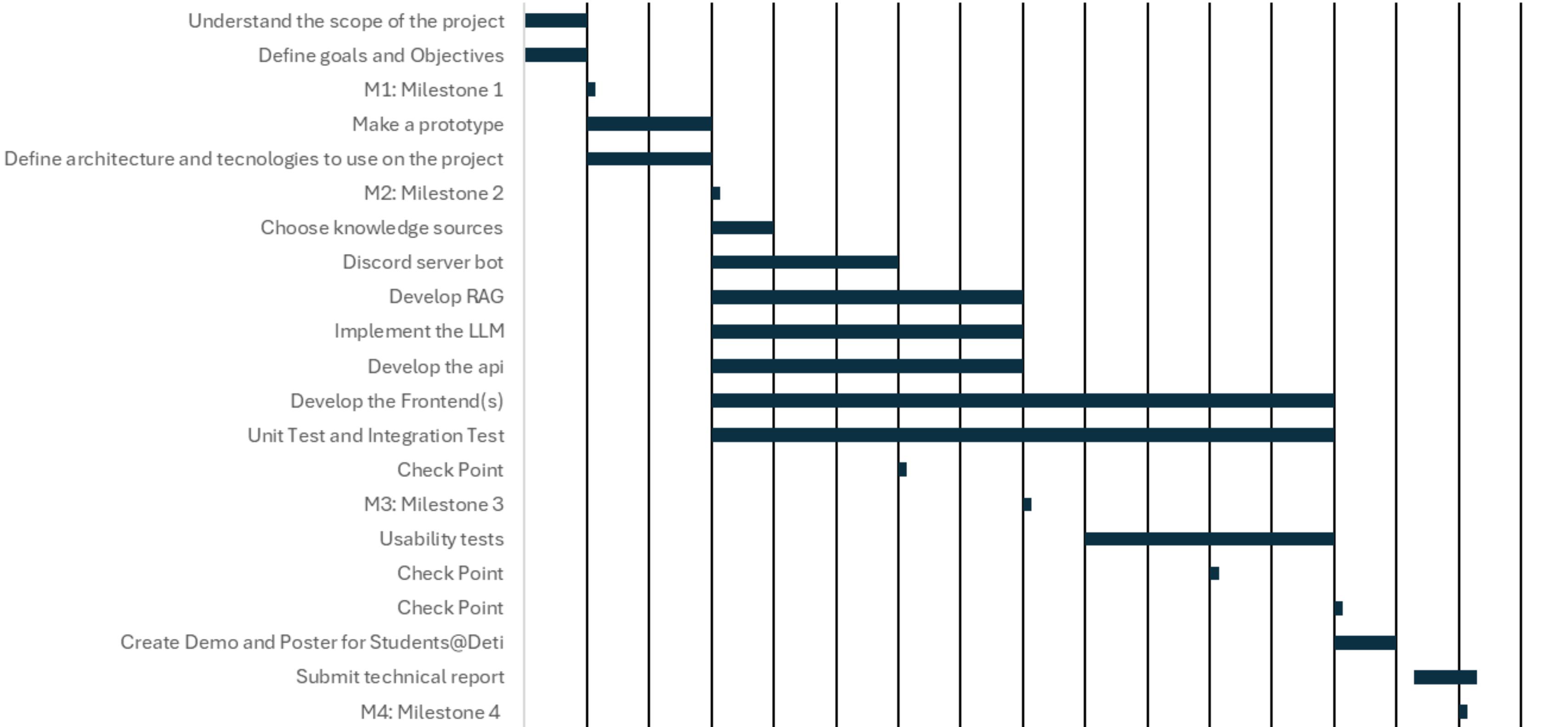
# QA TESTING

- Unit testing certain smaller aspects of the code throughout the development process .
- Integration testing throughout the development process.
- Evaluating user experience by crowd sourcing answers.



# CALENDAR

## Project Schedule



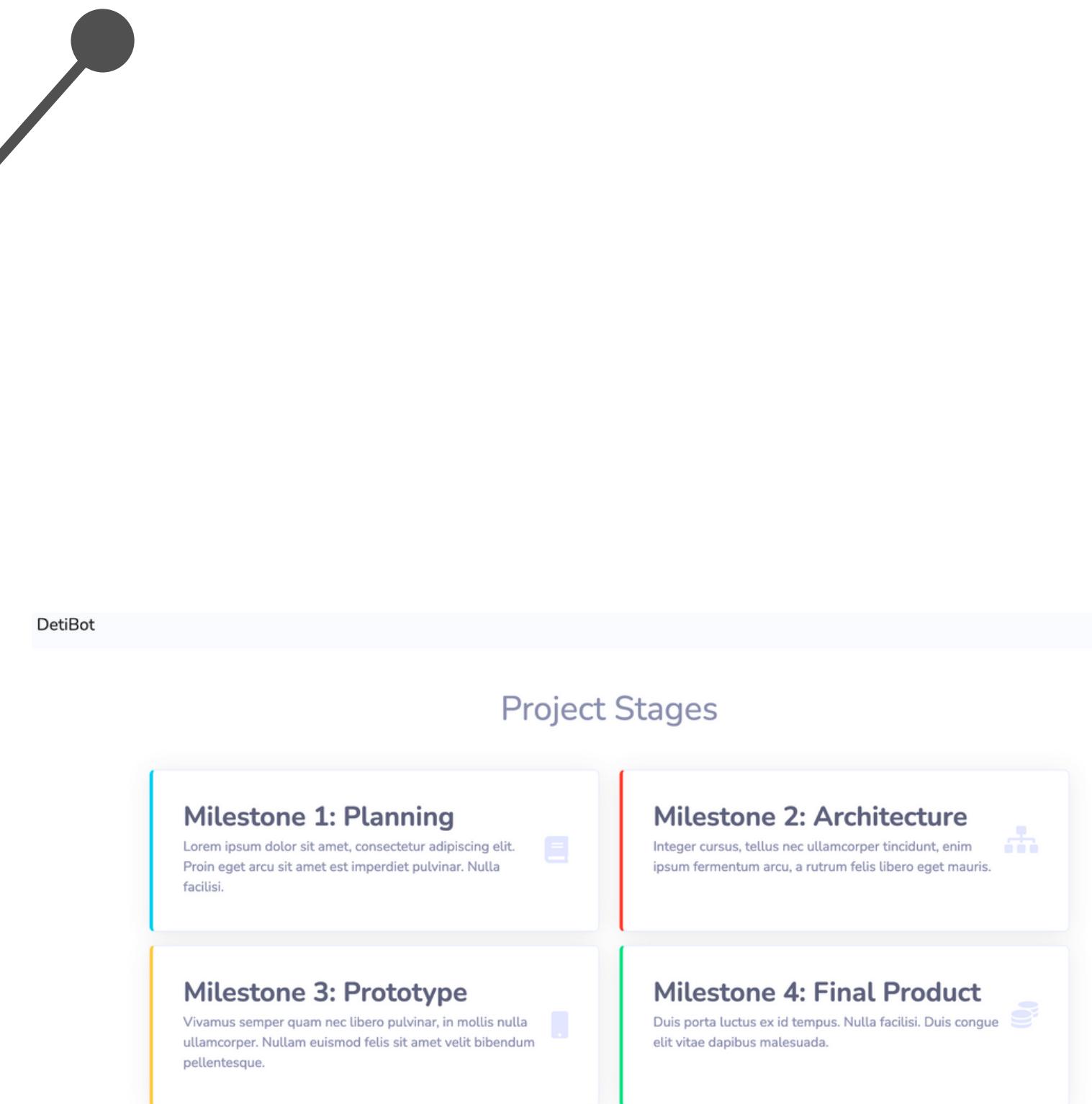
# COMMUNICATION



Weekly in-person meetings



Online chatrooms



Website with the updated developments  
+ GitHub rep