



# TIMeWISE

## Transforming Chaos Into Coordinated Bliss

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**Advisors:** Samuel Silva, Bernardo Marques, Daniel Ferreira

MILESTONE 4

DETI - PI - Team 3 - 2024



# Context

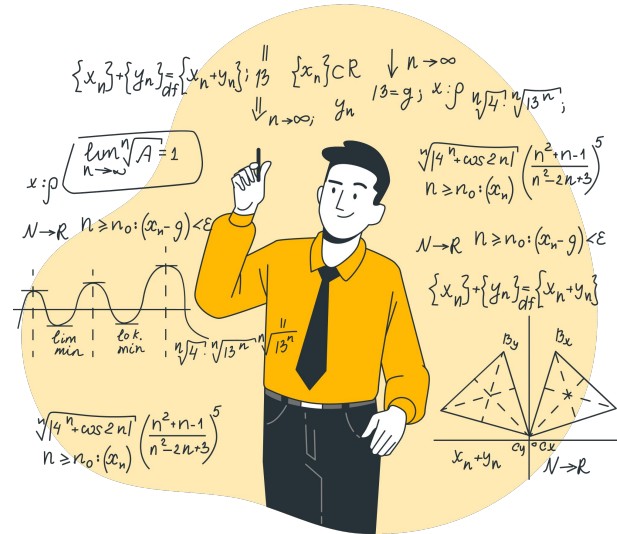
⌘ **timewise** is a smart calendar manager designed to **simplify the process of managing your schedule**, making it easier to plan your week and keep track of your appointments, tasks and goals, alongside an easier way to schedule meetings between multiple people.



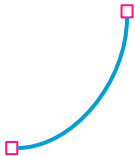
# Actors



Students



Teachers



# Use Cases

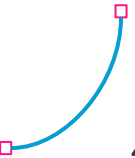


Schedule a meeting with  
two or more people

Define weekly hours for  
each event category

Schedule an event and  
preparation time

Set work/rest hours



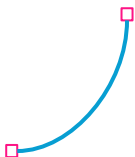
# Schedule a meeting with two or more people

The screenshot displays the Timewise calendar interface. At the top left is the Timewise logo, and at the top right are icons for user management, settings, and sharing. The main area shows a calendar for the week of May 26 to June 1, 2024. The calendar is color-coded by activity type, with a legend at the bottom. A meeting titled "Meeting with Timewise group" is highlighted on Friday, May 31st, from 11:00 AM to 12:00 PM. The meeting is categorized as "Meeting" in the legend. Other events include classes, exams, and personal time.

Time	Sun 26	Mon 27	Tue 28	Wed 29	Thu 30	Fri 31	Sat 1
9:00 AM		Maths Class (9:00 AM - 10:00 AM)	IT Class (9:00 AM - 12:00 PM)	Clean House (9:00 AM - 11:00 AM)	ITG Class (9:00 AM - 11:00 AM)	Math Exams (9:00 AM - 11:00 AM)	Exam 0:00 - 11:00 AM (9:00 AM - 11:00 AM)
10:00 AM				Self Care (10:00 AM - 10:30 AM)			
11:00 AM		Work (11:00 AM - 12:00 PM)		Study with Jason (11:00 AM - 12:00 PM)		Meeting with Timewise group (11:00 AM - 12:00 PM)	
12:00 PM	Work for G&A (12:00 PM - 1:00 PM)		Lunch (12:00 PM - 1:00 PM)		Lunch (12:00 PM - 1:00 PM)	Lunch (12:00 PM - 1:00 PM)	Lunch with Mom (12:00 PM - 1:00 PM)
1:00 PM		Lunch (1:00 PM - 2:00 PM)		Lunch (1:00 PM - 2:00 PM)	AP/IB presentations (1:00 PM - 2:00 PM)		
2:00 PM			Cinema with matty (2:00 PM - 2:30 PM)		Preparation for Math Exam (2:00 PM - 5:00 PM)	Math Exam (2:00 PM - 3:00 PM)	
3:00 PM							
4:00 PM							

Legend:

- Work
- Personal
- Housework
- Transportation
- Exercise
- Family
- Friends
- Preparation
- Meeting
- Exam
- Pharmaceuticals



# Use Cases

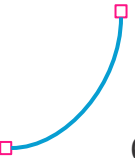


Schedule a meeting with  
two or more people

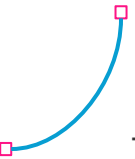
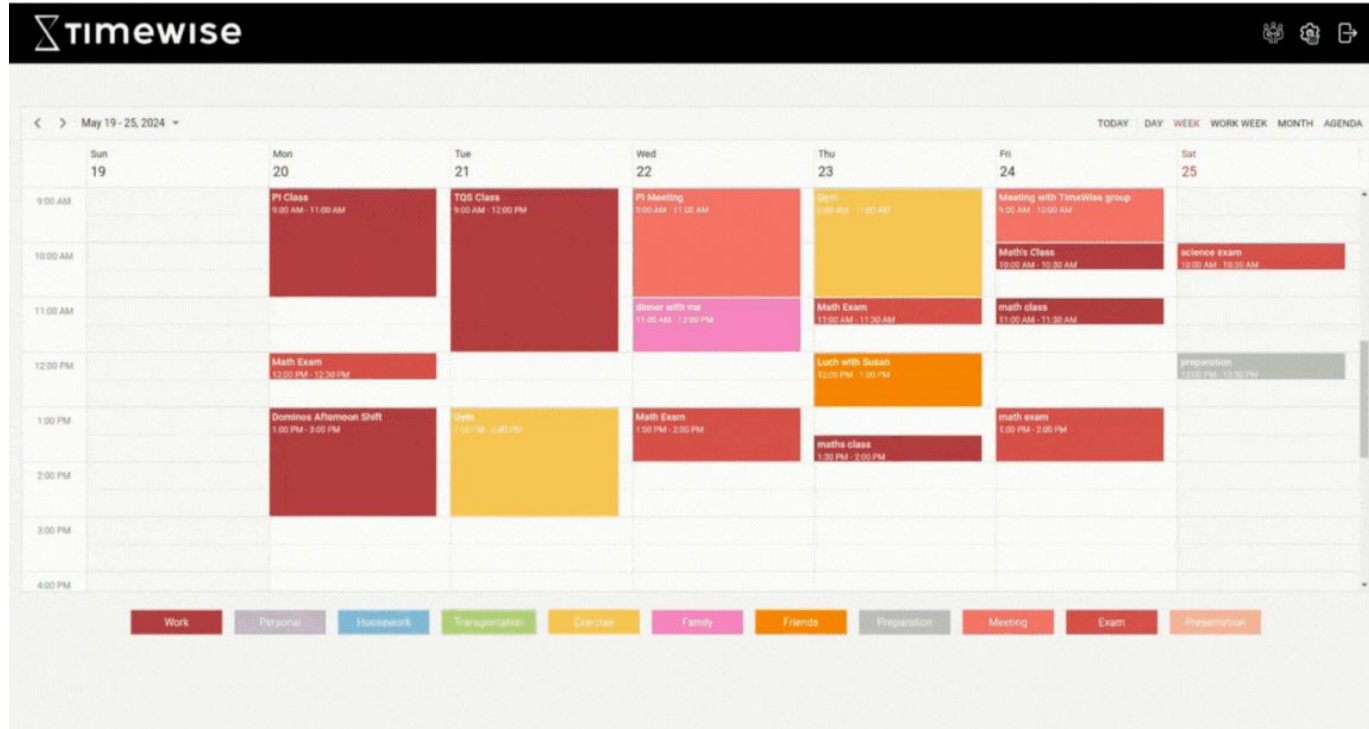
Define weekly hours for  
each event category

Schedule an event and  
preparation time

Set work/rest hours



# Define weekly hours for each event category



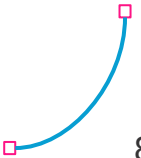
# Use Cases

Schedule a meeting with  
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Define weekly hours for  
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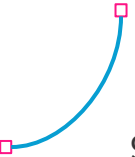
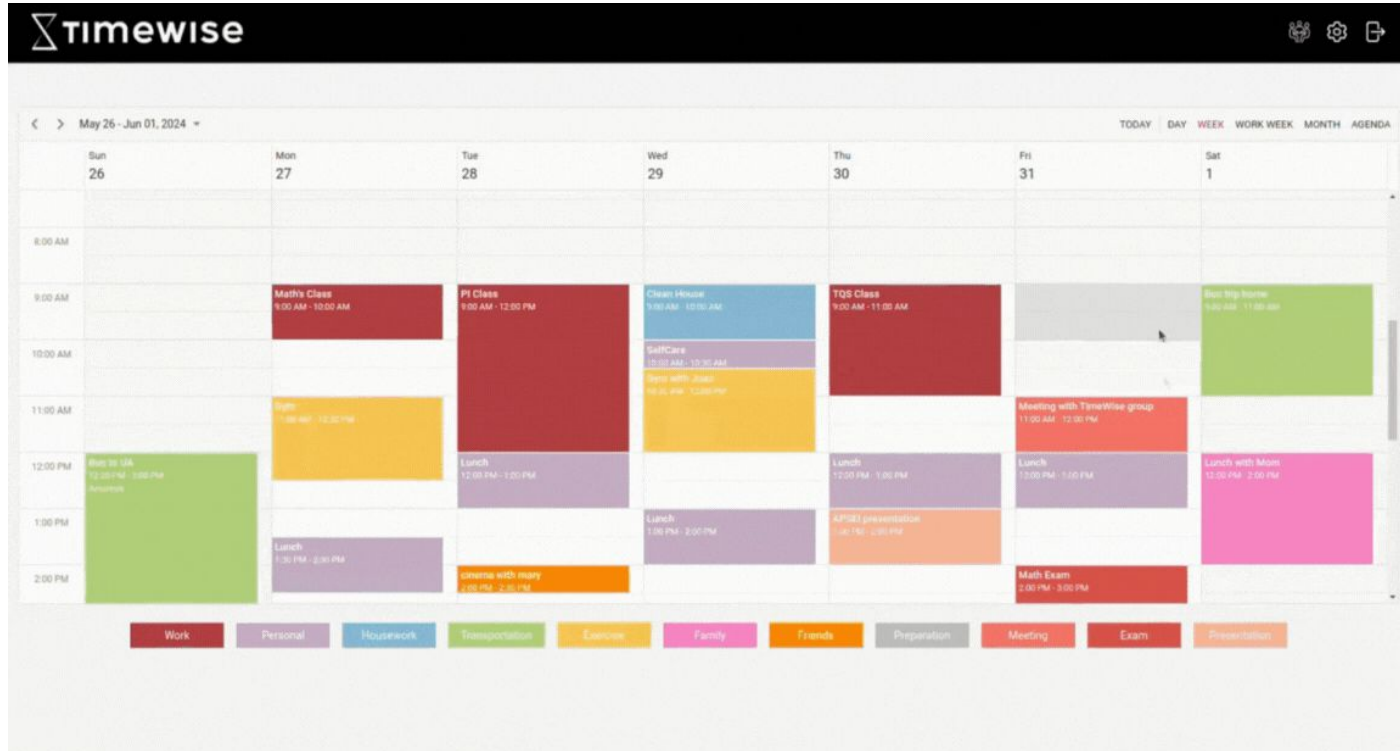
Schedule an event and  
preparation time

Set work/rest hours





# Schedule an event and preparation time



# Use Cases

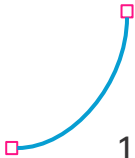


Schedule a meeting with  
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Define weekly hours for  
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Schedule an event and  
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Set work/rest hours



# Set work/rest hours



**TIMewise**

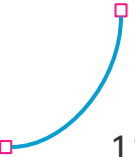
May 26 - Jun 01, 2024

TODAY DAY WEEK WORK WEEK MONTH AGENDA

Time	Sun 26	Mon 27	Tue 28	Wed 29	Thu 30	Fri 31	Sat
9:00 AM		Math's Class (9:00 AM - 10:00 AM)	PI Class (9:00 AM - 12:00 PM)	Clean House (9:00 AM - 10:00 AM)	TQS Class (9:00 AM - 11:00 AM)	Math Exam (9:00 AM - 11:00 AM)	Son Trip/bother (9:00 AM - 11:00 AM)
10:00 AM				SelfCare (10:00 AM - 10:00 AM)			
11:00 AM		Son (11:00 AM - 12:00 PM)		Work with Andy (11:00 AM - 12:00 PM)		Meeting with TimeWise group (11:00 AM - 12:00 PM)	
12:00 PM	Work for UK (12:00 PM - 1:00 PM)		Lunch (12:00 PM - 1:00 PM)		Lunch (12:00 PM - 1:00 PM)	Lunch (12:00 PM - 1:00 PM)	Lunch with Moin (12:00 PM - 2:00 PM)
1:00 PM		Lunch (1:30 PM - 2:30 PM)		Lunch (1:00 PM - 2:00 PM)	APSEI presentation (1:00 PM - 2:00 PM)		
2:00 PM			cinema with wany (2:00 PM - 2:30 PM)		Preparation for Math Exam (2:00 PM - 5:30 PM)	Math Exam (2:00 PM - 3:00 PM)	
3:00 PM							
4:00 PM							

Legend:

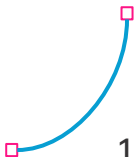
- Work
- Personal
- Housework
- Transportation
- Exercise
- Family
- Friends
- Preparation
- Meeting
- Exam
- Presentation



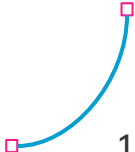
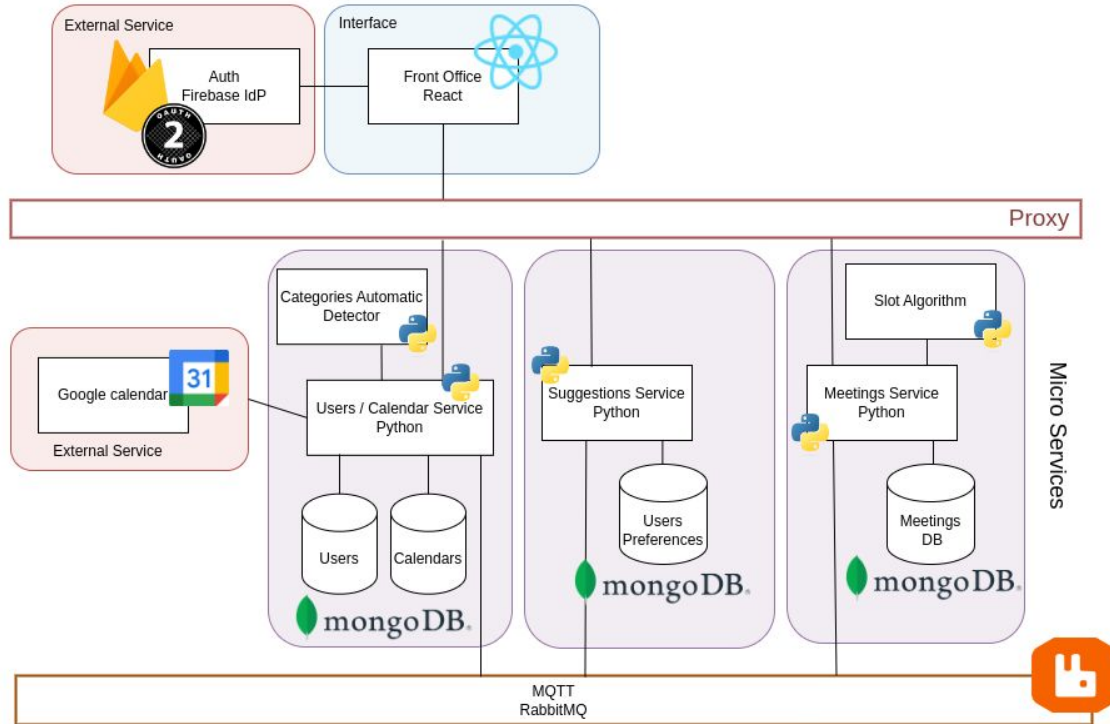
# State of art



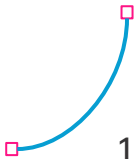
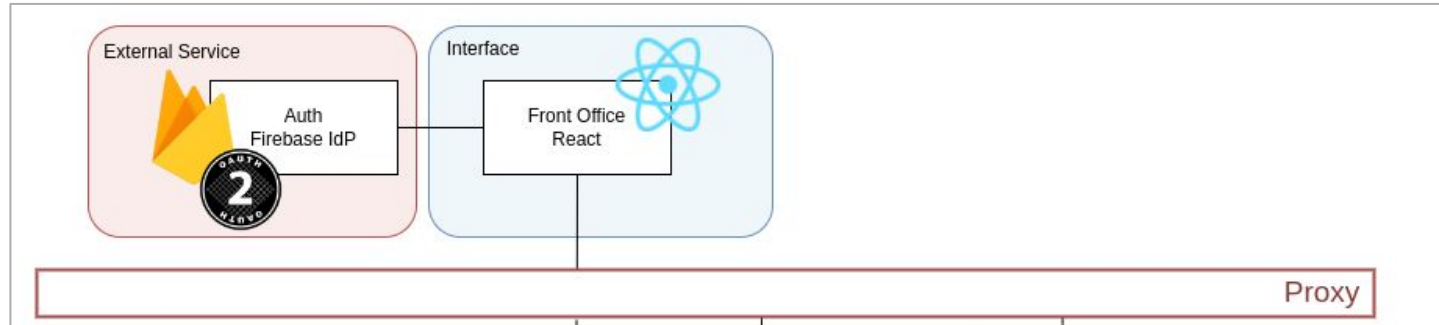
App / Functionality	Scheduling events	Scheduling automation	Reminders	Customization	Schedule meetings between people	Smart Scheduling
Google Calendar	✓	✗	✓	✗	✗	✗
Notion	✗	✗	✗	✓	✗	✗
Doodle	✓	✗	✗	✗	✓	✗
Calendar.Ai	✓	✓	✓	✓	✓	✗
Google Keep	✗	✗	✓	✓	✗	✗



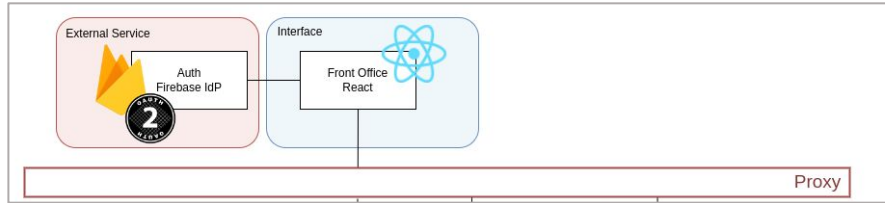
# Architecture



# Frontend + API



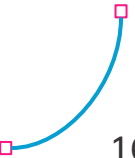
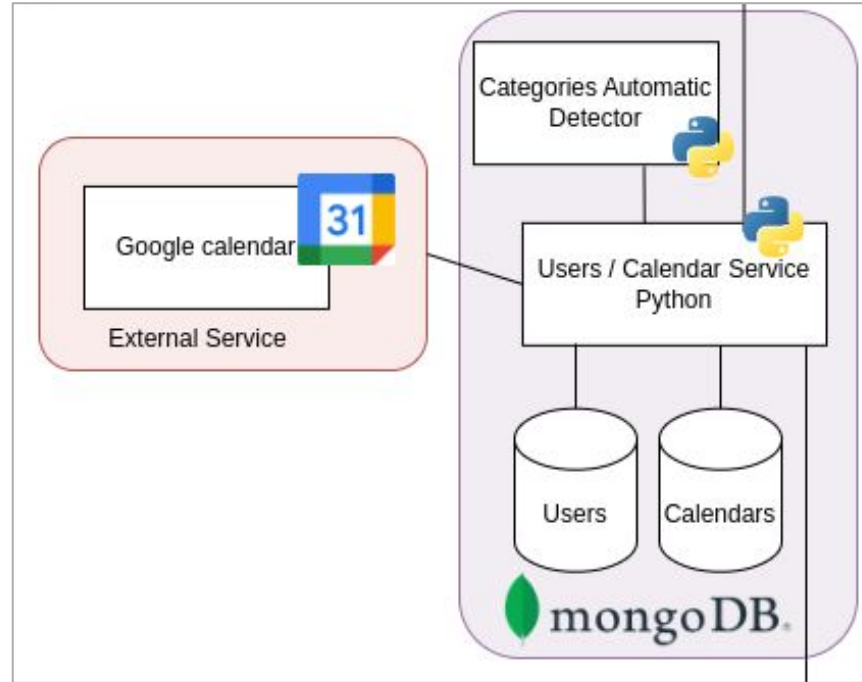
# Frontend + API



- **Interaction** with the user
- **Authentication** with Firebase IDP
- **Communication** between interface and services

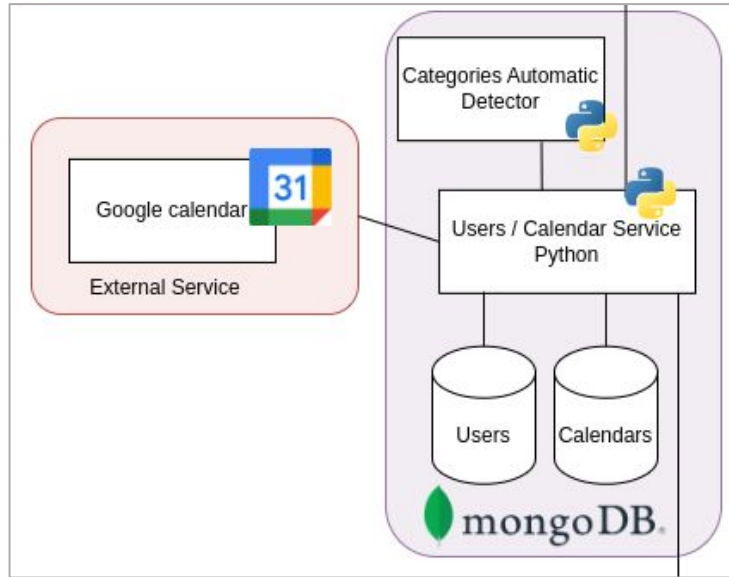


# User/Calendar Service

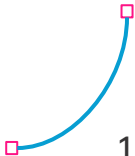




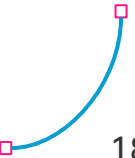
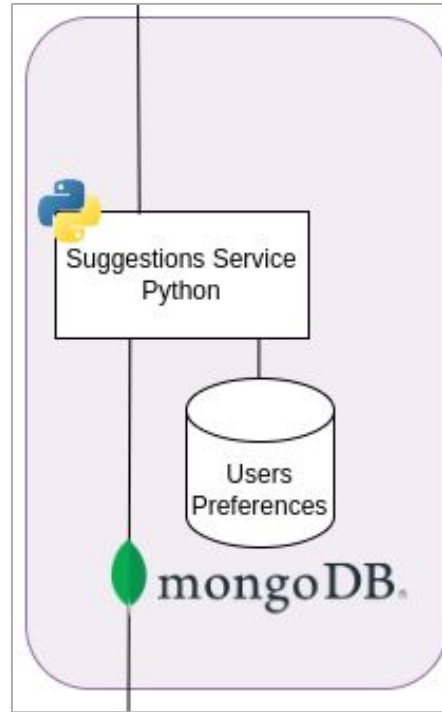
# User/Calendar Service



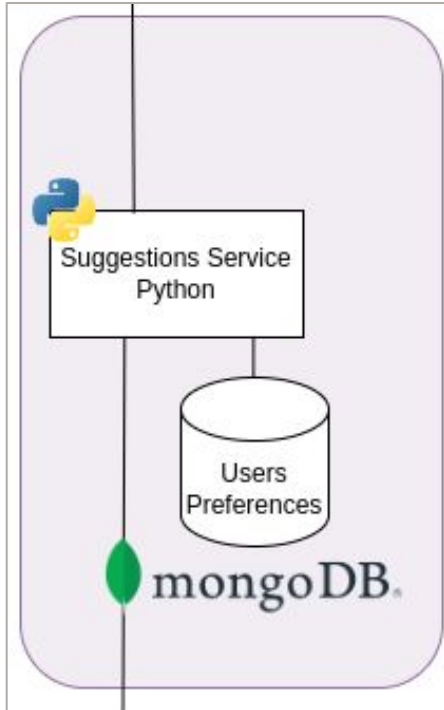
- **Connection** with Google Calendar
- **Token management** securely and encrypted
- **CRUD** operations associated with calendar events
- **Automatic detection** of categories, through a model



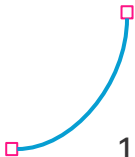
# Suggestions Service



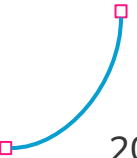
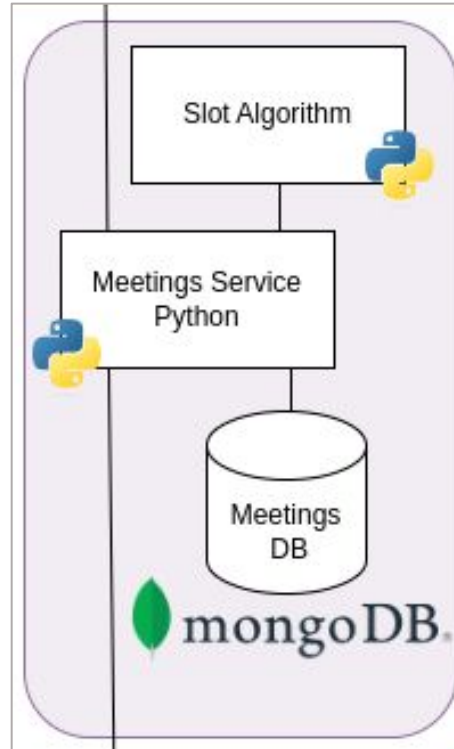
# Suggestions Service



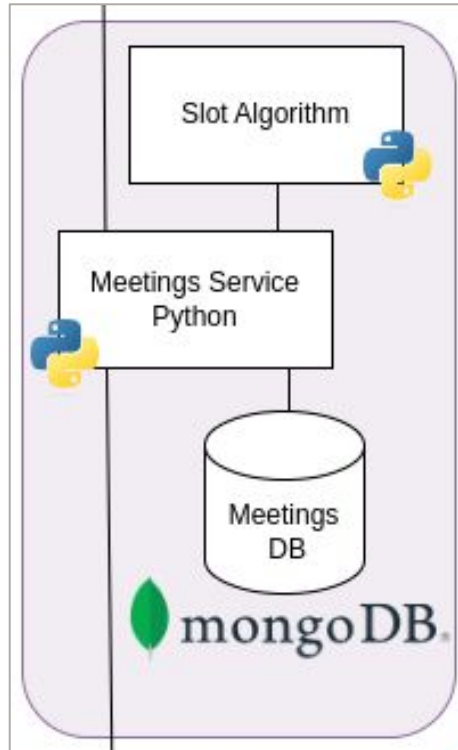
- **Generation** of preparation time slots
- **Storing** user preferences



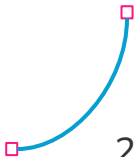
# Meetings Service



# Meetings Service



- Meeting slot **compatibility** to get the best
- **Stores** all meeting data until scheduled



# Usability tests

8 students, 2 teachers



## Tasks

- Example of each Use case

## Evaluation

- Observations by researchers
- Post Task Questionnaire



...

I think that I would like to use this system frequently. ⋮ ☰ +

Totally agree ● ○ ○ ○ ○ Totally disagree N  
A

I found the system unnecessarily complex.

Totally agree ○ ○ ○ ● ○ Totally disagree N  
A

I thought the system was easy to use.

Totally agree ● ○ ○ ○ ○ Totally disagree N  
A

I think that I would need the support of a technical person to be able to use this system.

Totally agree ○ ○ ○ ● ○ Totally disagree N  
A

I found the various functions in this system were well integrated.

Totally agree ● ○ ○ ○ ○ Totally disagree N  
A

### 2. Demographic data

User number: 03  
(check the correct options)

Gender:  Female  Male  Outro Age: 57

Profession: teacher

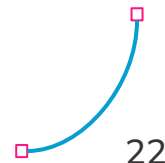
Previous experience with this type of application/system:  None  Some  A lot

Tool used to organize time: google calendar

Why this tool? (or no tools) não conhece, google calendar serve os seus propósitos

Please leave any comments about the user experience provided by the application/system:  
Gostava de personalizar as notificações. Não percebi o conceito das weekly hours, gostava de ter uma introdução a este tópico. Ainda no weekly hours, gostava de ter min e max na mesma tag.

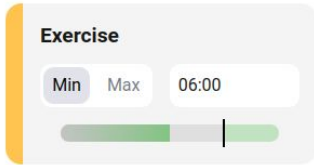
**Thank you very much for your collaboration!**



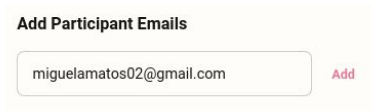
# Feedback



Do an OnBoarding (walkthrough)



Motivation to use Goals



Change Add Button



Meetings Technology explained



# Future Work

- Implement feedback in user interface
- Make personalized notifications
- Implement AI in preparation time suggestions
- Do a TODO List
- Do a weekly feedback



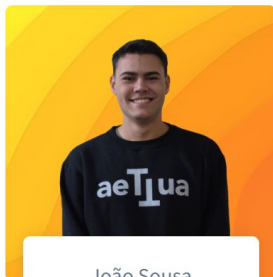




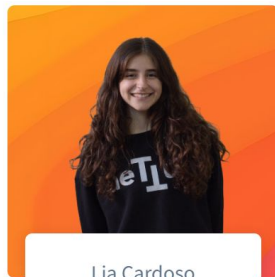
Thanks for your  
attention!

[timewise-pi.github.io/docs](https://timewise-pi.github.io/docs)

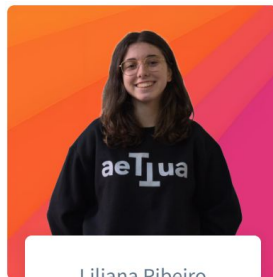
*'Saving time in  
managing time'*



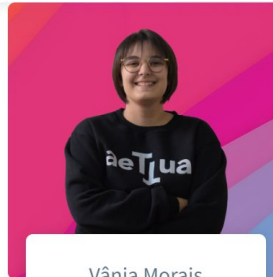
João Sousa  
Architect  
Developer



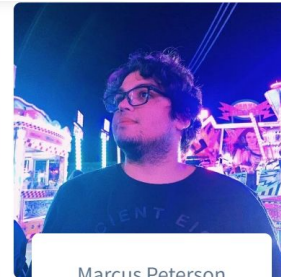
Lia Cardoso  
Product Owner  
Developer



Liliana Ribeiro  
DevOps Master  
Developer



Vânia Morais  
Scrum Master  
Developer



Marcus Peterson  
UI designer  
Developer

