

Sistema de apoio à criação da Distribuição do Serviço Docente

Projeto em Informática

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# **CONTEXT**



In all universities, the elaboration of the DSD is a problem of great complexity that requires quick access to relevant information and that should allow changing the distribution of classes by the different professors in an intuitive and informative way



# **PROBLEM**

#### **Overloaded Teachers**

Currently, the DSD has many flaws, leading to overloaded teachers

#### **Hard To Obtain Data**

There is no available tool that retrieves all the necessary data to make the DSD

## **How To Manipulate Data**

Working with a database makes sure all the data is easily updated, but may cause latency





Main Objective
Create a platform where DSD is performed.

# Balanced Distribution

Allow the hours assigned to each teacher to be linearly distributed

# Graphic interface

Development of a graphical interface for building the DSD

### Wish list

Tool to view each teacher's wish list, in which they indicate their teaching preferences.

## Teachers History

Ability to see past data in order to have a better deciding method

# **Students Prediction**

Prediction of the number of students in each UC

## Teachers Status

Display of the teacher status in order to see if you can assign him/her or not

# **TASKS**

# Understanding the Problem

Familiarization with the DSD problem, what is it, how it works

#### **Frontend**

Frontend development for the platform to be created

### **Backend**

How to get data and use it

## Architecture Definition

Architecture designation of how the application framework will work

## Json vs Database

Latency must be minimal and information must always be accessible

# **EXPECTED RESULTS**

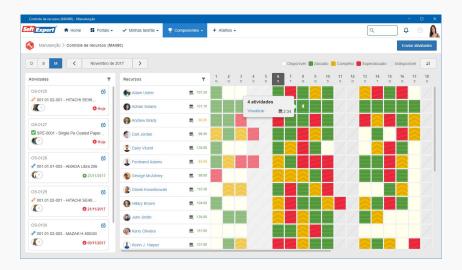
### A Platform That Is Designated For Power Users

- Fast response while interacting with the system
- Single-click actions
- View all information in one place
- Give control to the user



# **RELATED WORK**

Resource allocation is a very common problem among many different areas. As such, there are already many software solutions available to the public from where we can learn, analyze and get inspiration from



# **COMMUNICATION PLAN**

#### **GitHub**

- Online repository with all code
- Frequently updated

#### **Discord**

- Daily meetings
- Pair Programming

## ZenHub

• Task Distribution

## Website

Available at <a href="https://pi-group-03.netlify.app/">https://pi-group-03.netlify.app/</a>

# **AGILE**

### **Working software over documentation**

 Working software is more important than comprehensive documentation in a fast and ever-changing work environment

### **Continuous development**

• Break down the software delivery process into stages where each stage is made of different tasks which can be carried out in parallel

### **Continuous Integration**

- Frequent short meetings with stakeholders to keep everyone updated
- Shorter release cycles where code is immediately integrated after task completion