Plataforma de Apoio à Distribuição do Serviço Docente

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I. INTRODUCTION

The DSD is a platform that provides DSDers with a better way to plan and execute the distribution of Professors across classes and curricular units. This process is a very complex task and there is no standardized way to perform it, with many departments relying on excel spreadsheets to perform the job at hand.

We aim to offer a better way to solve this complex task by building a practical and powerful platform that lets DS-Ders assign Professors to classes whilst being able to easily view all necessary information required to elaborate the work distribution.

II. PROBLEM

As mentioned before, the execution of this task is very complex and each user do it in a different way. It also needs a quick access to the important information and, with today's resources, this is not achieved. Therefore, this problem requires a better solution like a web platform that auxiliates the creation of the DSD.

III. FEATURES

The main features available in this platform are a graphical interface that allows the creation of the DSD; List information about UCs and professors; Allocate Professors to UCs; Give allocation recommendations; Display each Professors lectioning preferences in an easily accessible form; See Professors's history of lectioned classes; Ability to change a professor's acronym; Tool to validate the DSD that checks for unassigned classes and overloaded Professors; Export the DSD in common formats such as JSON, CSV and XLS.

IV. ARCHITECTURE

The platform's architecture is constituted of 3 components: A web app developed in reactJS, where the information is acessible to the user and can be interacted with; A relational MySQL database where all information is stored; An API developed with the FastAPI framework, that provides communication between the web app and database.

V. RESULTS

Above all, we want to create a pratical yet powerful platform that is designed towards power users, with fast response while interacting with the system and single-click actions, where the user is in control and is able to view and change all information in one place.

VI. CONCLUSION

In conclusion, this platform can improve the task of performing the DSD much more easy and simple for the teachers executing it, due to the fact that all important information is displayed and that its available online. Therefore, the teacher's performing the DSD can access it anytime and anywhere.