



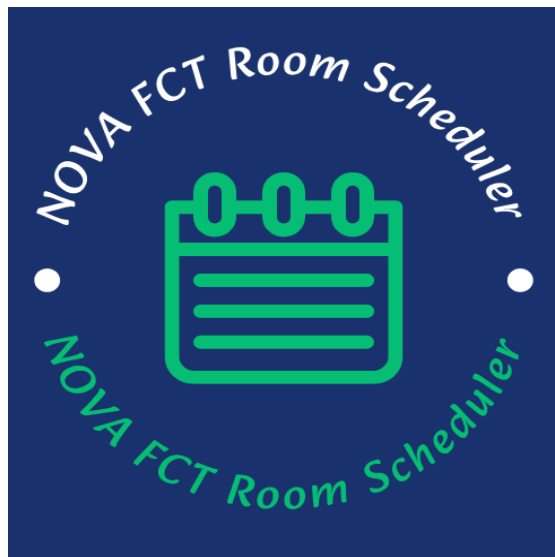
NOVA SCHOOL OF
SCIENCE & TECHNOLOGY

Interação Pessoa-Máquina

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NOVA FCT Room Scheduler

Stage 4 : 1st Prototype



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Project Description

The NOVA FCT RoomScheduler is a platform designed to simplify the process of locating and reserving rooms on the campus of NOVA FCT. Our application addresses the inefficiencies and user-unfriendliness of the current CLIP platform, offering a user-centric solution for students and professors alike. Whether it's finding a classroom, booking a lab with specific equipment, or securing a room for a presentation, the RoomScheduler ensures the right space is always available.

For development we mainly used the react library.

Prototype URL

Startup Instructions

Import the project to your chosen IDE, open an integrated terminal on the folder FCTRoomScheduler, and try to run **npm run start**. You will then need to install the required libraries, for that you should run **npm install**.

Briefing

The problem our application aims to address is the complexity and inconvenience associated with reserving or locating rooms on a large university campus, such as NOVA FCT.

Managing room reservations at NOVA FCT is currently challenging. While the CLIP platform accepts bookings, it is inefficient and unfriendly, making it difficult to quickly locate the appropriate room with the necessary equipment. Whether a student needs a specific lab for a project or a professor requires a room with, for example, audiovisual equipment for a presentation, the current system fails to accommodate these needs effectively.

Our platform simplifies this process, allowing users to easily book rooms equipped with the resources they need, based on their specific requirements.

Scenarios

Scenario 1: A New Student Finding a Classroom

John, an Erasmus first-year student, arrives at the university for his first class in room 124 in building II but he realizes that the start of his next class is getting near

and he is unfamiliar with the campus and the Portuguese language. John accesses the app so that he can find the location of his classroom, helping him avoid being late to his class.

Scenario 2: BioChem Students Reserving a Laboratory

Emília, a Biochemistry student, is working on an important final project regarding enzymology with her classmates after class, at 4:00 PM, where they will need to test different pH levels. This requires flasks, a pH meter and access to various chemicals. They need to use a laboratory that has this type of equipment. Knowing that multiple student groups might want the same lab, Emily opens the NOVA FCT Room Scheduler.

Scenario 3: A Professor Reserving a Room for a Presentation

Dr. Smith, a professor in the Computer Science department, is preparing to host the final project presentations for his class data structures at 6:00 PM. He needs a larger room with a projector, internet access, and a webcam to stream the event online for external participants.

Project URL

<https://ipm-group22.github.io/IPM-Group22/>

Incomplete Parts

Although you can select various types of filters to find what is the best room to make a reservation, and fulfill the scenarios that were provided, currently when you click on “Search” the page where the user is redirected simply shows all of the existing rooms in the system, ignoring the selected filters.

The user interface to check the information about each of these rooms and make the reservations is there and usable, we simply did not implement the various queries to check the database, and deliver the real results you would expect in a real world application.

We did this because on the stage 4 assignment it is stated that the application does not need to be functionally complete for now, but what we have is complete enough to give a convincing impression to candidate users, and we believe accessing databases and performing queries is slightly beyond the scope of this course. Besides that, having less members in our group also didn't help in completing this.

Also, the button to change languages may not work on some texts throughout the application.