



NOVA SCHOOL OF  
SCIENCE & TECHNOLOGY

**Interação Pessoa-Máquina**

**2023/2024**

# **Nova Booking**

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Stage n: 1



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**Problem Description:**

*"Describe the problem you are trying to solve during the project. You should try to play the role of the users and describe their needs and difficulties - not the solutions for their problems."*

Currently, CLIP is not beginner friendly and has an unintuitive interface. If a user wants to rent a room, for example, they would have to navigate through CLIP's endless menus, getting lost in the process.

Book and material rentals are not available in CLIP. The whole process has to be done in person. As expected, the user is still required to physically go to campus to obtain the equipment.

There is no good map to guide a new student through the campus. It is difficult for new students to navigate the campus due to the confusing and cluttered maps powered by Google Maps.

**Target Users:**

*"Shortly, characterize the target user problem."*

Students and teachers of Nova School of Science and Technology (FCT).

**Project Goal:**

*"Describe the main goal of your project and a possible solution to the problem. You are not absolutely committed to this solution. You can modify your solution during the project's development if the evaluation procedures recommend a different solution."*

Our goal with this project is to address the previously mentioned issues that arise when attempting to reserve a room in our University library. Additionally, we aim to provide online booking options for school materials such as books, Arduino's, lab equipment, and even spaces like laboratories and classrooms. We plan to achieve this by creating a website.

Our solution consists of a Campus map where the user can hover and choose the intended building. Hovering over it will display its information and content. After the selection is made in the library, for example, a floor can be chosen to make a room reservation with also a map showing the availability. If the intent is material borrowing, there will be a separate option to choose from.

### **Competitor Application:**

*"In case it exists, identify at least one application that competes with your proposed project, indicating what are the positive and negative aspects about that design. Your project is supposed to fix those wrong design issues."*

Our application will combine multiple functions that are currently only possible through different tools. In this section, we will discuss the existing tools for each task, their limitations, and how our application can improve on them.

- **Booking an office (Individual or Group)**

Currently, the only way to book an office at the campus library is using CLIP. The current tool is terrible in its design, as it is not only very ugly and unappealing to use, but it is also lacking in features and in the way it presents its information:

- The only way to have any kind of sense as to "the physical location" of the offices, is to know which number is assigned to each individual office. It is very inefficient for the user to have to memorize this.
- In CLIP, one can only book an office in 3-hour blocks. This can prove to be inefficient because a person may want to book a certain office but it appears as occupied even though the person that is currently occupying it will only stay there for some more minutes, for example.

- **Renting a book**

- We intend to make the process of book rental more agile by making it possible through online methods. In opposition to the current methods which require the person to present itself physically in the library's services to proceed with the rental.

- **Navigating the Campus**

- We plan to have a more intuitive and well presented Campus' map to further smooth our services and to be used as a simpler guide for anyone who has doubts about the whereabouts of any particular infrastructure or organization inside the mentioned area.

- **Booking a room and/or material**

- There is currently no way to do any of these with CLIP.