



NOVA SCHOOL OF  
SCIENCE & TECHNOLOGY

**Interação Pessoa-Máquina**

**2022/2023**

## **Pool Tool**

---

### Stage 1: Project Proposal



**Authors:**

58152, António Brejo  
57869, Daniel Cavalheiro  
55085, Inês Baptista  
57854, Pedro Nunes

**Lab class Nº** P3

**Group Nº** 17

**Professor:**

Teresa Romão

Month 09, 2022

**Problem description:**

These days the use of public swimming pools is becoming more popular yet the way customers interact with the facility is still archaic.

**Describe the problem you will try to solve during the project:**

To use the pool's services the customer has to call or go to the facility and speak personally with a receptionist to check the availability, sign in and book a lane. There may be other activities going on that a customer might be interested in, but, due to lack of phone assistance, the only way to get that information is going to the pool physically. A user also in most cases needs to use a card to access the pool that could be forgotten and can be a burden to carry around. This must be charged at an ATM which is another unnecessary trip that a user must do.

In essence, the difficulties are related to the fact that there is no communication channel available, so the user must go to the facility to do everything associated with the facility's services.

**Target users:** Anybody that frequents the pool.

**Project goal:**

The main goal is to develop a mobile application that allows users to interact with pool services without the need to go to the facility.

The application will have multiple features:

1. The ability to book a lane. A user must be able to reserve a lane without needing to go to the facility first.
2. Additionally a way to check the lanes availability and schedule.
3. After the reservation is complete the user will have the freedom to change or even cancel and check past reservations.
4. A user can also check the facilities calendar so they can stay informed on future events and classes, and, if available, sign up for them.
5. There will also be an appointment to communicate with a teacher to book a lesson and converse with them to allow a better learning experience.
6. Finally, it should be possible to check the balance of the member's card, charge it remotely and instead of having to bring the card with you, let the app validate the entry for the user.

**Application that competes with ours:**

Bookus - Our service will only focus on swimming pools unlike bookus that allows companies to set up a similar application but in a more general way. For example a restaurant could ask bookus to create an application for them that allows customers to reserve tables. The app that we are going to develop will be more specialized allowing for more features.