

# ADHD PROJECT

## Changes on requirements

Initially, a series of functional and non-functional requirements had been established for the product being developed. However, many of these requirements were found to be incorrect and not targeted at the actual users of the system. Overemphasis had been placed on children with ADHD, while the true users, teachers, had been largely ignored. This led to the functional requirements not being adequate and therefore the final product would probably not meet the needs of the end users.

In addition, it was found that the non-functional requirements were not suitable for the product being developed. These requirements were not measurable and did not focus on the needs and abilities of the people who were going to use the product. This meant that it could not be properly assessed whether the product met the necessary quality standards and it could not be guaranteed that it would be suitable for end users.

Taking into account all the details mentioned above, they have been corrected and new requirements have been added.

## Justification of requirements

### Functional

#### **RF-001 Techniques**

By offering suggestions for adaptive techniques for classroom activities and complementing them with children's interests, the teacher's ability to effectively teach these students can be enhanced and their engagement and interest in learning increased.

#### **RF-002 Tracking System**

By registering the child's information in the system, the teacher will have access to relevant data on each student with ADHD in order to adapt the teaching and create an appropriate learning environment for them.

#### **RF-003 Tools**

Recording information about the activities of children with ADHD is essential to assess their progress and help teachers understand how the student is adapting to the different teaching techniques and strategies used in the classroom.

#### **RF-004 Resources**

Teachers need to have access to up-to-date and reliable information on ADHD; By providing relevant sources of information, the system can help teachers become more informed and prepared to work with these students.

#### **RF-005 Login and sign up**

This functionality is necessary to guarantee the security and privacy of the data of the users of this application. By implementing an account registration and authentication process, the system will ensure that only authorized users have access to stored information.

## **RF-006 Home Screen**

By showing the available features and tools, the user will be able to quickly understand what the application can do and how it can help them in their task of teaching children with ADHD. Also, displaying the user's last movements in the app can help teachers to easily remember what they did previously.

## **Non functional**

### **RNF-001 Maintainability**

The system must be capable of receiving updates and modifications since the information discovered and investigated will be necessary to implement, as well as new technologies that will emerge and the system must be able to adapt to them.

### **RNF-002 Graphical user interface**

The graphical interface must be intuitive since the people we work with have a wide range of ages, from young people of 23 years old to people who are already 50-60 years old. Therefore, it is necessary that it is intuitive and easy to use.

### **RNF-003 Scalability**

The software will handle a lot of information due to the data of teachers, students they register, the information we provide, etc. Therefore, the system must be capable of handling it, and it must also allow for the implementation of collaborative work and third-party software if necessary.

### **RNF-004 Security**

The system will handle data of teachers and children, so security is an important factor since private data of students and children will be entered.

### **RNF-005 Friendly and understandable**

As the system must be intuitive, it must contain elements that help teachers to distinguish the functions and options that the system has. In addition, it must use fonts that are pleasant to the eye and understandable for everyone.

### **RNF-006 Optimization**

The system must be agile and able to perform its functions and options within a reasonable time, in this case, 3 seconds.

### **RNF-007 Accessibility**

The system must be accessible on any device and anywhere with internet access since the teachers who will require the use of this system have devices of different types, both cell phones and computers. All those who have a device with internet access must be able to access the software.

### **RNF-008 Reliability**

The system must prevent and act on possible problems that may arise, it must be reliable and make users feel that way.

**RNF-009 Efficient navigation**

The system must guarantee efficient navigation, allowing users to quickly find the relevant information they are looking for on the web page.