



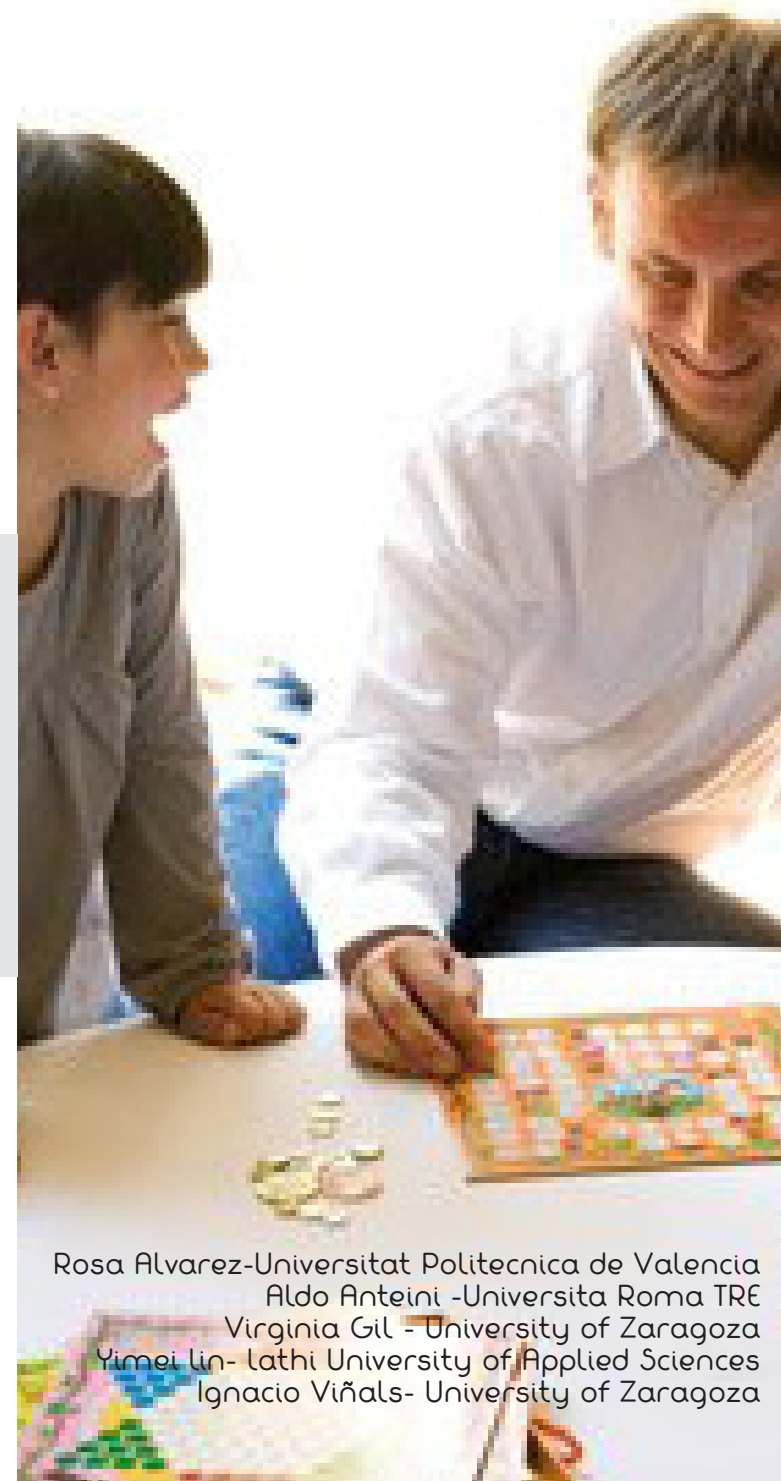
Lifelong  
Learning  
Programme

DESIGN AND DEVELOPMENT OF AN APP  
FOCUSING THE MOBILITY DISABILITIES IN  
CHILDREN BY DRAWING THERAPY

TECHNOLOGIES TO REDUCE THE ACCESS BARRIER IN HUMAN  
COMPUTER INTERACTION ERASMUS INTENSIVE PROGRAMME

[HTTP://TRABHCI.EU/](http://trabhci.eu/)

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# Motivation of the Programme

## **TRABHCI Programme:**

Focuses on the development of ideas, technologies and collaboration among students from different countries with the goal of reducing the access barrier in human computer interaction for disabled people.



## Initial Ideas (I)

- Focusing on mobility disabled people, specially children, making it interesting or even funny for the patient is imperative.
- For this reason, our first ideas were about developing «games», so patients could take a comfortable rehabilitation.

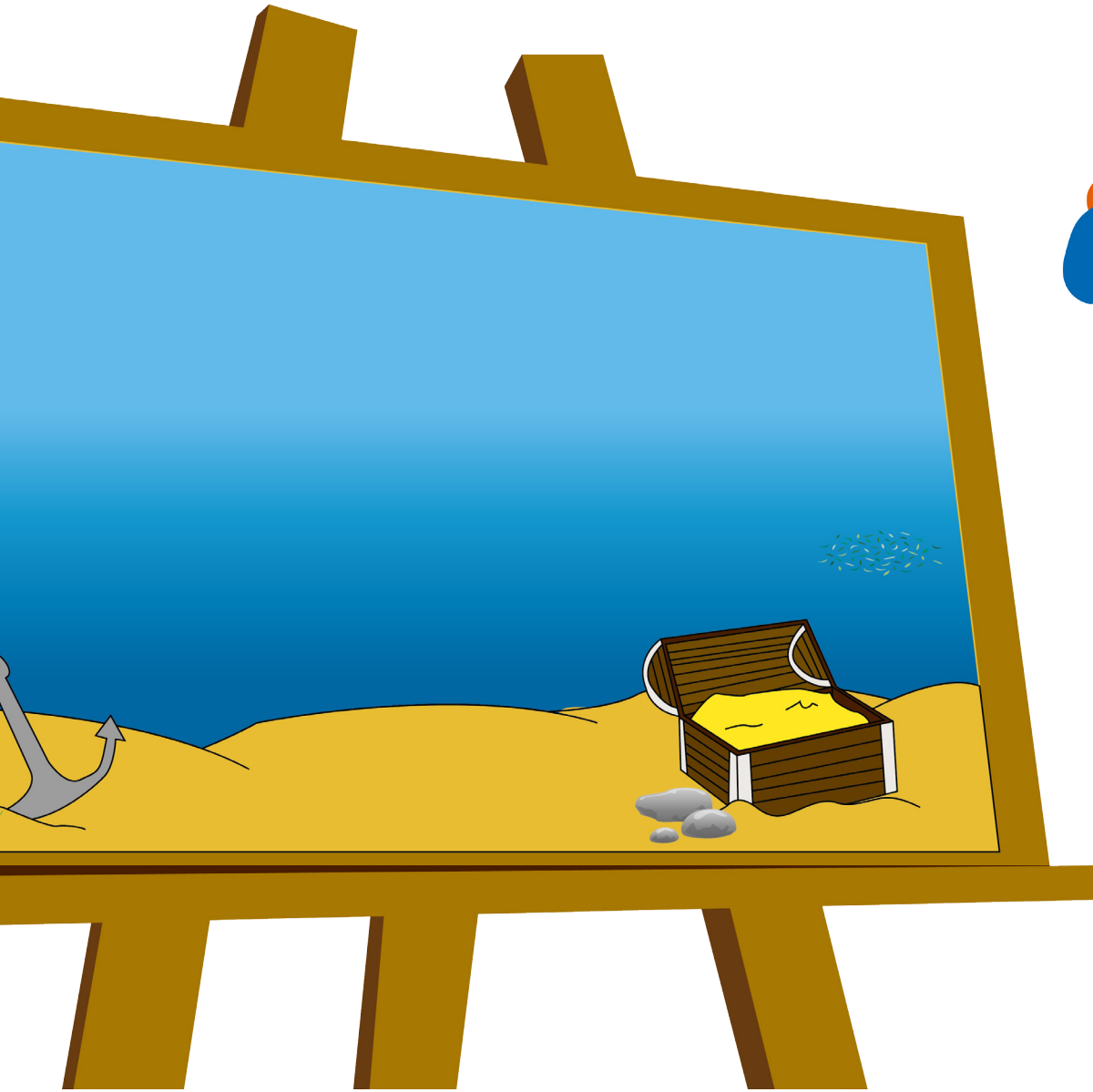


## Initial Ideas (II)

- Help disabled children to train and exercise their limbs.
- Interesting game
- Drawing tool
- Communication
- Kinect, C#

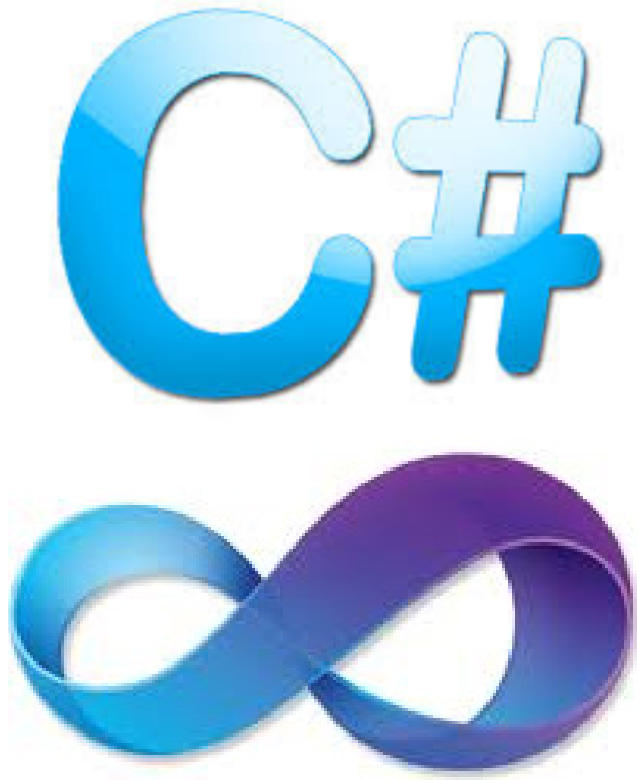
(add screen captures later)

# Subtasks



- Plan
- Design layout
- Image processing
- Programming
- Test

# Difficulties



- Difficult to understand what patience needs
- New programming language with kinect
- Adapt the different skills in the group to better develop the application
- Short time

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## Problem solved:

- Get knowledge about the feature of disabilities to help
- Apply what we learned from class and manage to do
- Prioritize the most important features



## What was learned?

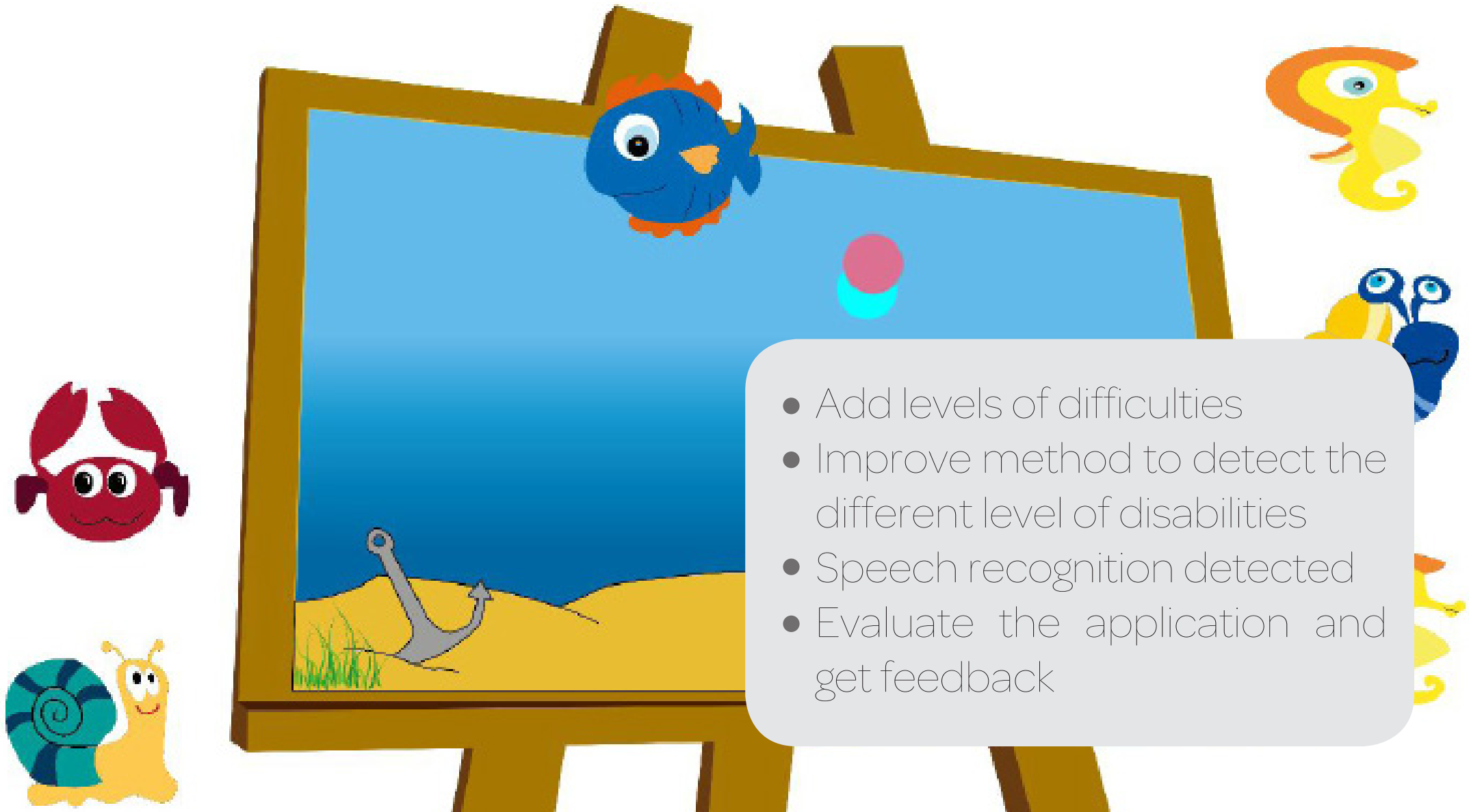
- Knowledge about medical field and disabilities
- Working with an international group
- New programming language
- Efficiency of work

## What's left?

- Develop different background and objects
- Apply different levels of disabilities by tracking techniques
- Speech recognition



# Extension of the project



- Add levels of difficulties
- Improve method to detect the different level of disabilities
- Speech recognition detected
- Evaluate the application and get feedback

# Success

- Working together from different background
- Applying knowledge we learn in the project
- Working with efficiency in short time



THANKS FOR  
YOUR ATTENTION