

Hackathon - Educa 360

Day 2

First Contact with Robot Eva

What exactly did we see that Eva knows how to do?



Create, Innovate, Collaborate... How?

We will use a **new way of thinking** to generate design solutions for problems and challenges.



MÃO NA
MASSA

MAO NA
MASSA



Challenges in Education - Let's talk?

- What happens?
- Who (students/professors)?
- In what contexts (in the classroom/at home/?)?



List of Challenges (BrainStorm)

Lack of organization at school.

- Shy students who don't ask questions and remain unsure.

Students who frequently skip class and miss a lot of content.

Lack of information about books related to certain topics.

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What are some educational challenges that robots can help with?

- Difficulty answering exercises and doing assignments •
People with learning difficulties and people with disabilities • Autistic children, in class, can help teachers to give more effective lessons interactive.
- It can help answer questions from children or teenagers who are very shy and unable to talk to teachers or even classmates about the questions they had in class.
- Helping to organize the school. • Helping children/teenagers study frequently and learn more. • Students who frequently miss class and lose a lot of content. • Lack of information about books related to certain topics.

Shall we form groups?



Groups

Activity - DISCOVERY 1/2



Choose a Challenge!!

- Decide which challenge/problem you want to work on with the Eva Robot.

- **To deliver:**

A question or phrase that defines the open problem/challenge.

Each group chose a challenge!!!

- Children with learning difficulties and shy children - learning problems



How can we help students overcome shyness or other difficulties?

Activity - DISCOVERY 2/2



Let's think more about the challenge we've chosen!

What do we already know about the people involved?

What do they need?

How can we help these people?



- To deliver:
 - 1 character (persona)

What are Personas?

Characters with:

- Name, •
- Profession, •
- Age, •
- Context, •
- Frustrations, •
- Desires

... and especially **Objectives**



Example of 1 Persona

Challenge: Monitoring learning only during exams.

People

Name: Joana, 14 years old, tall, mixed race



Occupation: 7th grade student at a municipal school.

Joana lives far from school. She has little time to study. She ends up only studying the night before classes.

Joana doesn't have much motivation to study. Her parents work all day and arrive home exhausted.

At school, teachers usually give exercises in class, but they don't correct them; they follow a self-correction style. And so Joana, even without understanding anything, just realizes she doesn't know the answers.

Therefore, the teacher also fails to recognize that Joana is not learning during the course.

Joana has been getting low grades and can't see a solution.

What Joana wants most is extra help to do well on the test.

Shall we share the problems and the chosen persona?

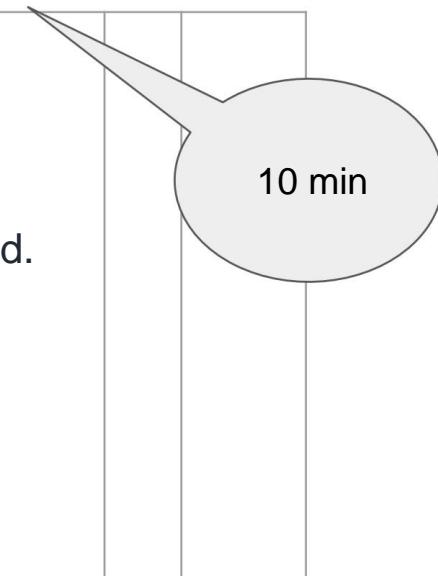
Activity - Empathy - ALL Together

Proud Divas Group

Carolina, tall, 9th grade, 15 years old, very shy and has a lot of difficulty with Portuguese. She can't get her questions answered.

She enjoys listening to music and reading.

Objective: To develop further, to communicate better.



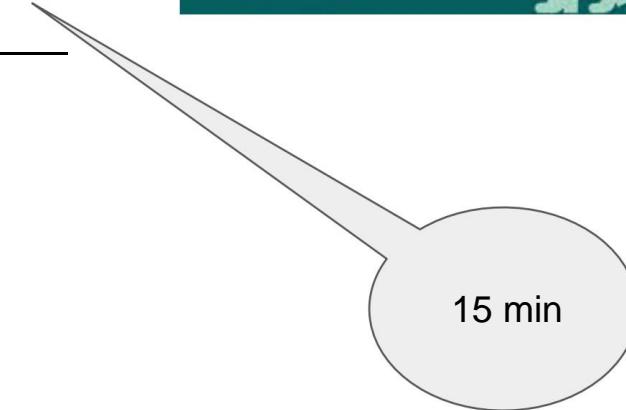
So, shall we come up with a solution?

Activity - IDEALIZE

Discuss the ideas and decide which idea you will follow.

To submit: Ideas for solving **the Persona problem with the Eva Robot.**





Activity - Plan the Solution

Step 1 - Keep in mind a need of your persona



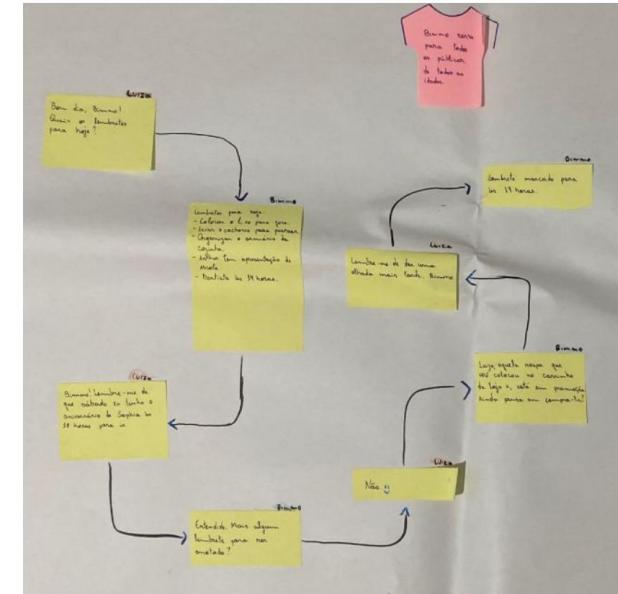
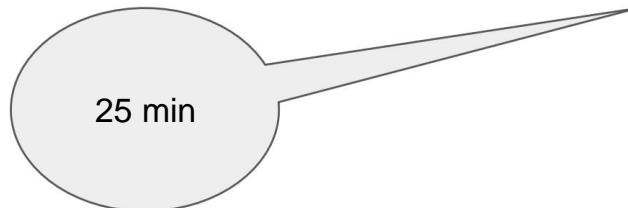
Step 2 - Use the sticky notes to write the dialogue between the EVA Robot and the persona.

Like the image here on the side

Step 3 - Make connections between the statements

- Use the pencil to draw arrows

Make a rough draft and then use the marker to outline it at the end.



What will we do in the coming weeks?

4/11/25 - Learning the Robot's programming language

6/11/25 - Creating solutions for EVA

12/11/25 - Test and present the solution

Post-Testimonial