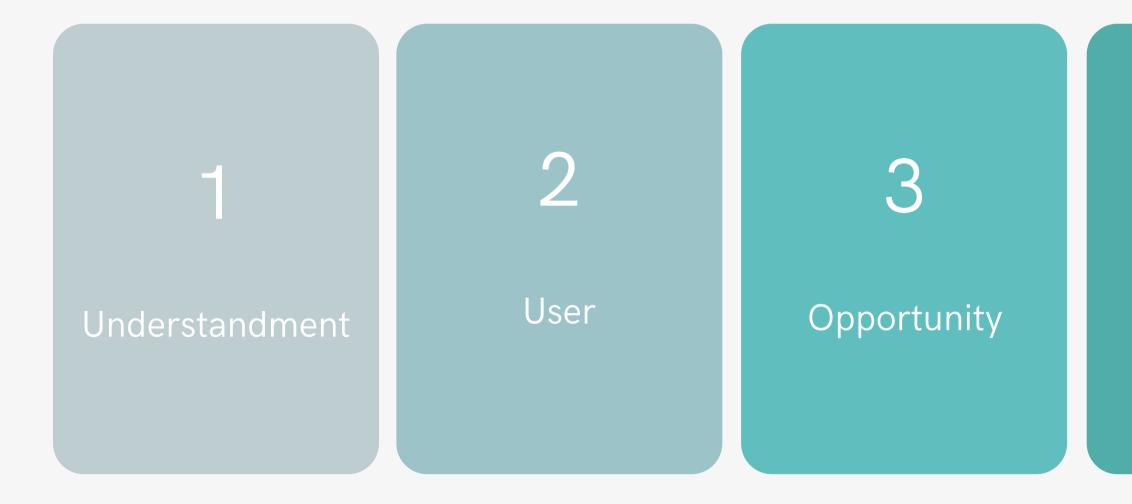


Clever Buddy

COMPANION ROBOT

Contents



4

Development process



Problem

Mental health problems increase the likelihood of illnesses and situations that put the person at risk. Currently, depression and anxiety in young people have reached the top positions in mental health problems according to the WHO. Mental health is all about the perception of your life and your way of thinking. The person should be able to manage stress and make decisions. Mental health is no less important than physical health at any age.





Context

- emotions.
- Lots of people are victims of depression and anxiety .
 - their media.
- thoughts. (Anxiety and Stress.)
- Change in the perception of social robots as a result of the reported change in people's lives due to COVID-19.

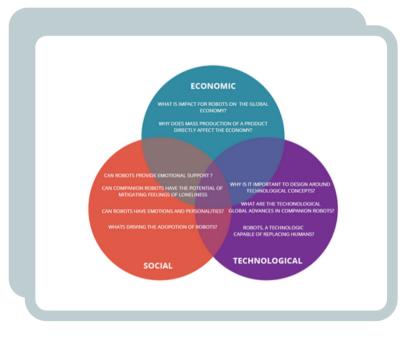
Due to covid 19, a lot of people felt loneliness and depression because nobody could go out and hang with freinds or with anybody.

There are many persons that fight every day dealing with their inner

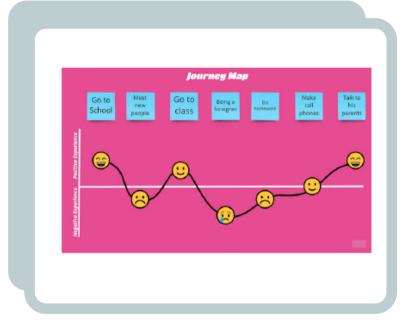
There are many kids that can't express themselves or have trouble around

There are many adults that can't enjoy a free time - break because of their

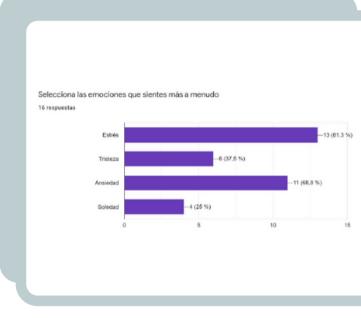
Investigation



SET

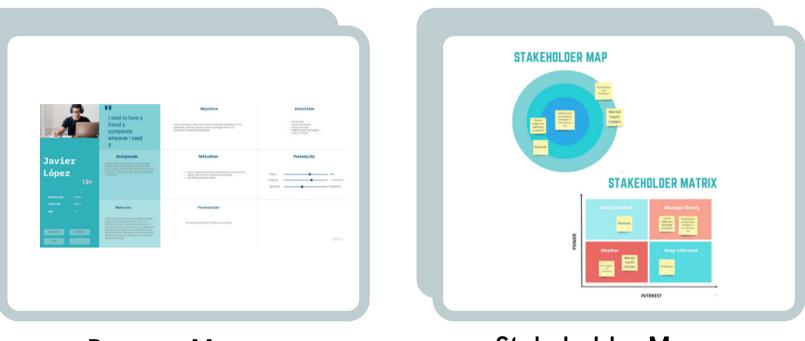


Customer Journey



Opinion Polls

Insights



Persona Map

Ve use two tools to get the insights, a survey and card soarting. Thanks to this we ollected the following inisghts.		
 The user preferred robots that had a friendlier and more tender appearance. The user chooses the robot according to the one that transmits the most kindness and trust. 		
3. The user does not like that the robot has either very realistic shape or too simple that it seems without having utility, in the same way he does not like those who have very big eyes because it gives them the feeling that it really observes them at all times, something that does not give them confidence if		
4. It's going to be their companion.		
 The user would prefer it to have a small size so that they can take it everywhere without problem. 		
 Students are the ones who are more likelly to present stress, depression, sadness, loneliness and anxiety. 		
 Stress and anxiety are the emotions that predominate in students due to school load and pressure. 		
8. Negative emotions usually occur 1 to 4 days a week.		
9. Most users tend to look for some distraction to eliminate negative emotions.		

EMOTIONAL OR PSYCHOLOGIC

Requirements

Stakeholder Map



Design Criteria



User Profile

Nombre: Javier López Age: 18 Occupation: Student

Objective

Find a solution so that Javier does not feel the emptiness of his apartment, and has company that encourages him in his moments of stress and loneliness.

Behavior:

In his city he used to be very social but now in a new city he has become a little shy, he is having a hard time adapting to his new living place and sometimes he feel's alone.

Frustration He doesn't have time to take care of a pet.

Needs and Requirements

- A companion for mental health that decreases depresión and feelings of loneliness.
- Help in times of stress and anxiety by transmitting peace.
- Share meaningful moments with someone.
- It should be small and light in weight so users can have the possibility to carry around everywhere.
- Easily to transport and with a good quality to prevent any damage caused by the environment during the transportation.
- Adorable and friendly appearance design

Opportunity

Designed for wellbeing (Trend 2021)



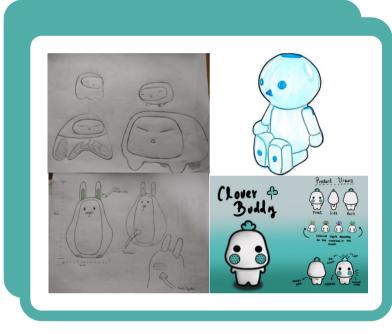
Generated Values

- Wellness
- Reduces anxiety
- Motivation
- Provides hope

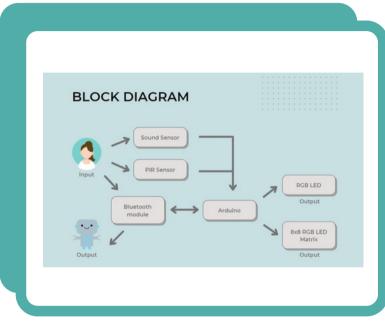
Technologies

- Bluetooth
- Sound Sensor
- PIR Sensor
- RGB LEDS
- 8X8 RGB LED Matrix

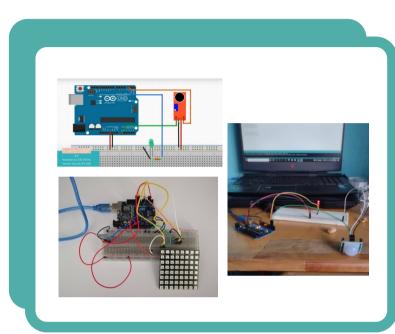
Development Process



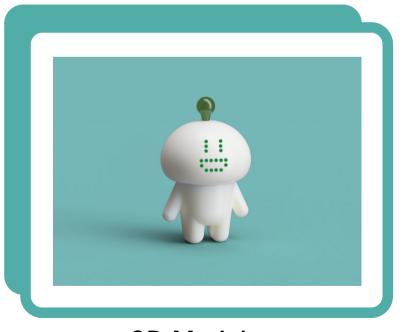
Ideation



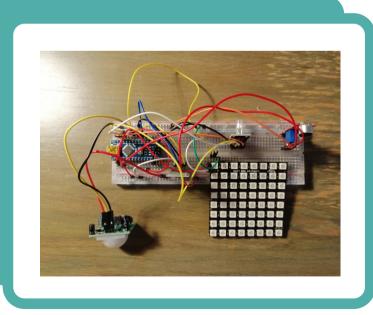
Block Diagram



Individual Prototypes



3D Model

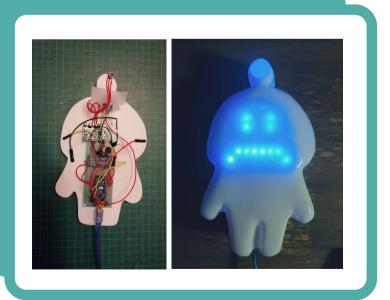


Final Circuits



Prototype

Individual Code



Integration

Final Solution



Companion Robot

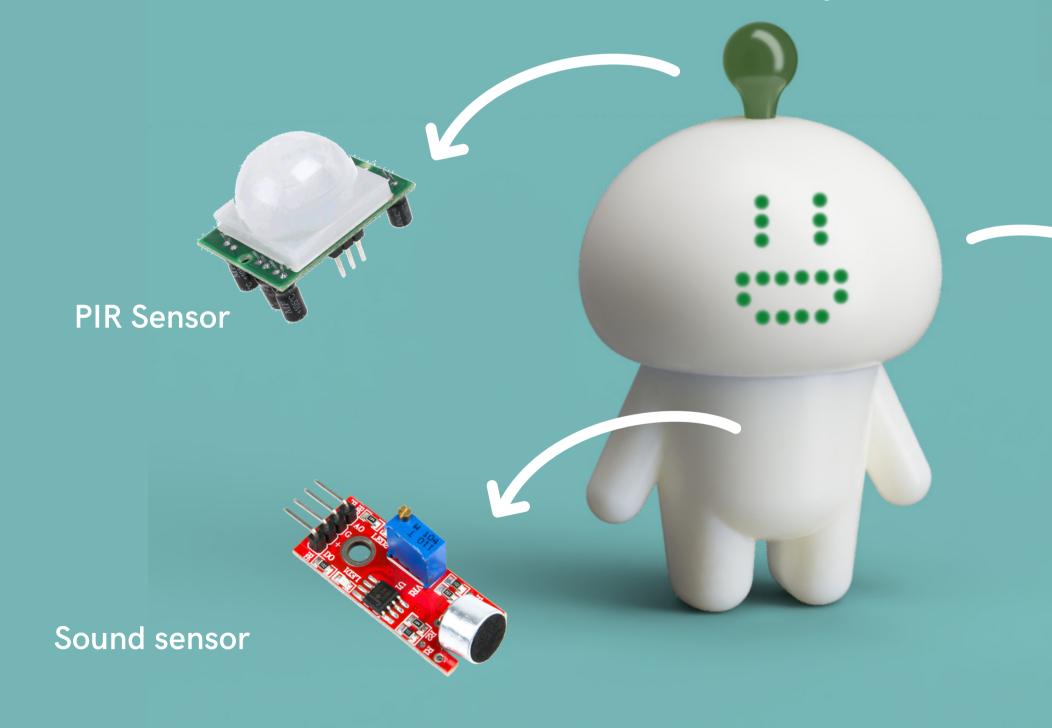
App

A R

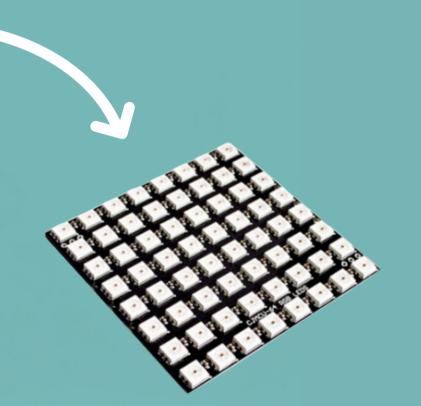
A Robot that will help you reduce your negative emotions and accompany in every situation.

Clever Buddy

Parts of the Robot





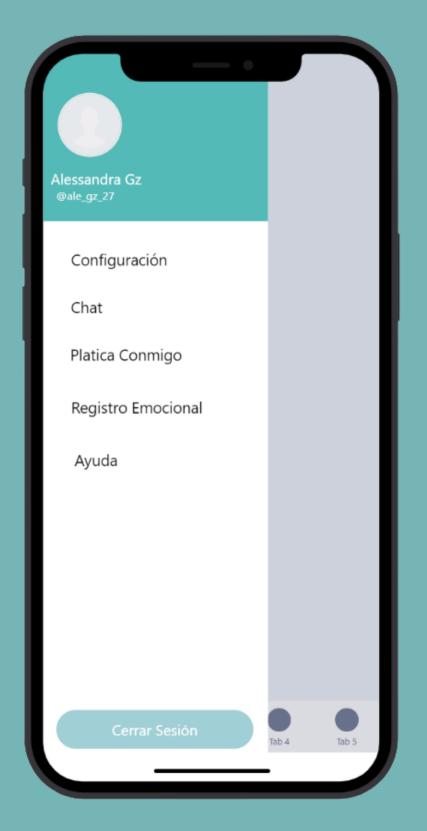


8x8 RGB LED Matrix

Clever Buddy - App



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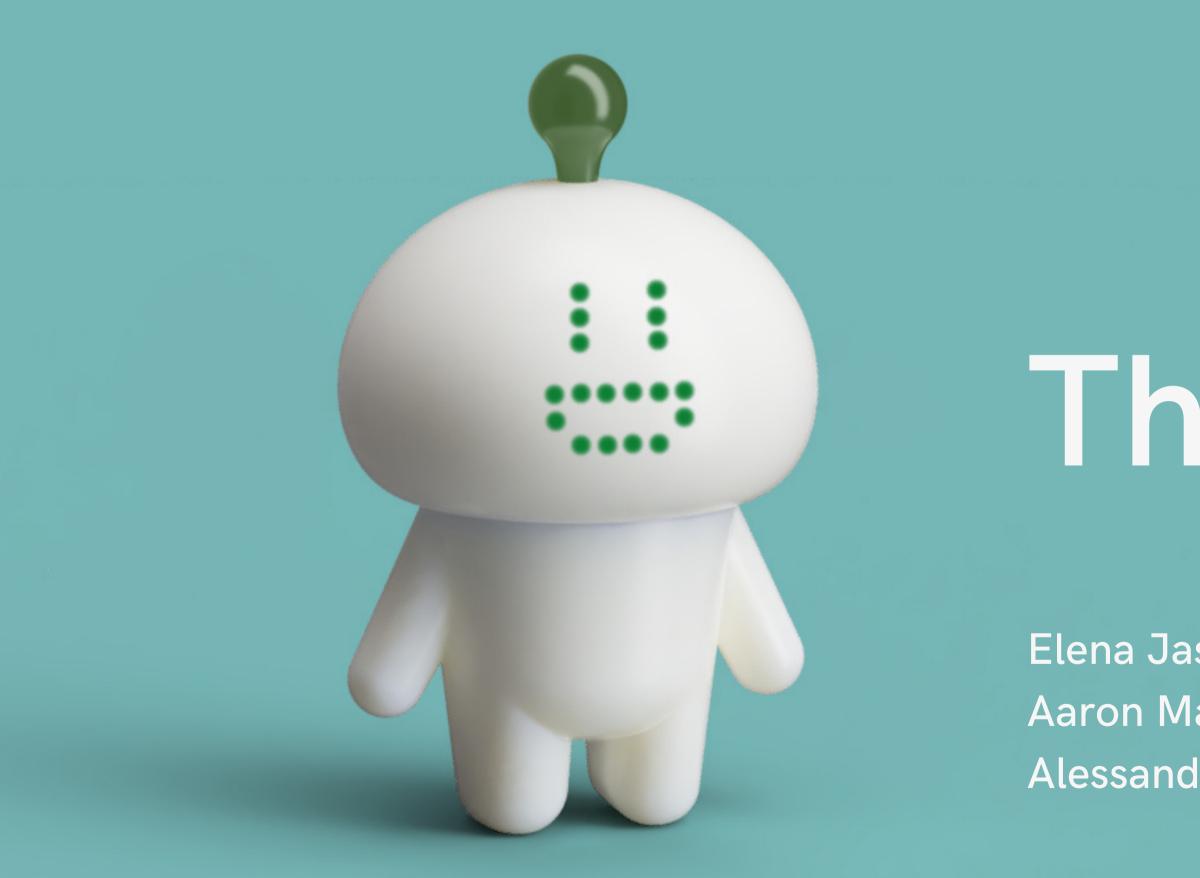


Clever Buddy - App

	15:36 내 우 🗖
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	5 minutes ago
	Alessandra ¿Cómo estás?
	5 minutes ago
	Clever Buddy Feliz y tu?
	3 minutes ago
	Selecciona tu emoción
	+ Write message Send







Thanks

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