

ANTICIPA-TEA. MOBILE APPLICATION TO FACILITATE THE ANTICIPATION OF CHILDREN WITH AUTISM SPECTRUM DISORDER (ASD) TO NEW SITUATIONS.

TECNOLOGY DESCRIPTION

Anticipa-TEA is a mobile application aimed at facilitating the anticipation of children with Autism Spectrum Disorder (ASD) to new situations.

The application is available for Android and iOS, and has three game modes:

1. Free: The child will be able to freely inspect all the zones and sounds of five scenarios: birthday, dentist, supermarket, park and hairdresser.
2. Story: This mode uses the base of the free mode, but adds a narrated audio story for each of the five scenarios. The story guides the child through the different interactive elements of the

stage, encouraging interaction with all the elements regardless of whether they are her favorite sounds or not.

3. Personalized: Interactive calendar mode that parents of children can customize according to the daily or weekly routine that is to come. The purpose of this mode is to anticipate the daily routine of the week that is going to begin, being able to include in it the five scenarios already created, as well as different images with real sounds from day to day: getting up, breakfast, toilet, dress, school, etc. food, rest, play and even cleaning.

BUSINESS APPLICATION SECTORS

Anticipa-TEA can be very useful in the health sector and in the homes themselves. Specifically, those organizations and associations specialized in attention to functional diversity and independence could use this app as a treatment complement. In fact, it would be an especially useful tool for interventions focused on the family, that is, in which family members play an active role in the intervention of their children with ASD, since Anticipa-TEA has a game mode personalized, suitable for family use.

TECNICAL ADVANTAGES AND BUSINESS BENEFITS

This project is based on the fact that the group with ASD is sensitive to changes in routines and exposure to new environments and situations, causing them stress that leads to maladaptive behaviors, such as self-harm. To minimize this negative impact both in the daily life of children with ASD and their families, strategies are used to anticipate the new situations that they are going to experience, gradually. However, after reviewing the scientific evidence and availability of mobile applications on the market, we did not find any for this purpose.

This is one of the reasons why Anticipa-TEA arises. This app offers support in the anticipation phases of children with ASD, simulating the environments and situations that are to come in the form of interactive maps with different scenarios and real sounds, to reduce the negative impact on the quality of life that situations new ones cause both in children with ASD and in their relatives.

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Advantage:

- Visually attractive.
- Real sounds.
- Intuitive.
- Easy to use.
- For all audiences.
- Customizable.
- Various game modes.
- Diversity of scenarios and interactive elements.
- Scenarios selected based on the opinion of a multidisciplinary group of professionals.
- Calendar adaptable to the routines of each family.

Anticipa-TEA offers families with children with ASD the opportunity to live from home or any other known and comfortable environment, situations that are going to occur in a close time frame. Thus promoting a first contact and reducing the possible "surprise stimuli" that children could find in these situations.

TECHNOLOGY DEVELOPMENT LEVEL

Anticipa-TEA has already been initially tested and a pilot test has even been carried out on its usability and user experience in mothers and fathers of children with ASD, resulting in great satisfaction. It is currently available in the Android and iOS markets.

INTELLECTUAL PROPERTY RIGHTS

Intellectual property registration A-412-2021 requested on 12/17/2021.

COLLABORATION SEARCHED

We are looking for Organizations and associations specialized in attention to functional diversity and independence, who want to collaborate with us to develop the Anticipa-TEA app in other age groups to improve the integration of young people with ASD into the labor market and study the benefits of its use. in families and their children with ASD.

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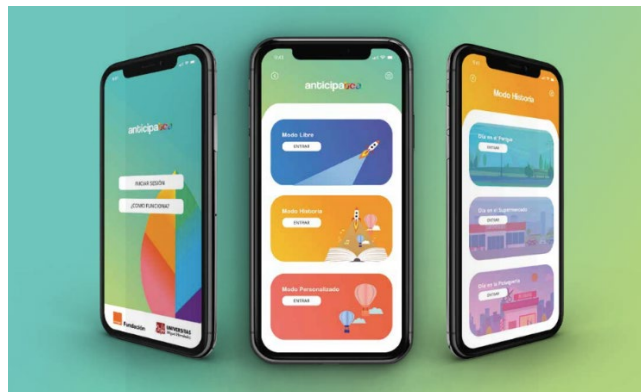


Image 1. AnticipaTEA app interface



Image 2. App logo as it appears

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