



Buddy TAG

Group 4 - Buddy Te4m

Nuno
Mota

Helena
Oliveira

Lourenço
Moiane Jr.

Alexandre
Gonçalves

Guilherme
Sousa

The Problem



- The cases of children disappearing are on the rise.
- Parents feel unsafe for their kids in public or get overwhelmed.

How It Works



Wearable
Buddy Tag



Wireless
Communication



Guardian
Buddy App

- The BuddyTag advertises itself through Bluetooth.
- Our BuddyApp pairs with the TAG.
- The APP calculates the proximity to the TAG.
- When the wearer leaves the BuddyZONE, an alert is sent to the APP, with feedback for the TAG as well.

Results and Challenges

- Created a protected session between the TAG and the APP.
- Improved the distance calculating algorithm.
- Created a working and appealing APP interface.
- Decreased the TAG size by $\approx 40\%$ from the first iteration.

Our Answer



- BuddyTAG is a wearable tag that can be worn by children.
- A safe distance is set by the parent in the BuddyApp
- Calculates the TAG's distance.
- The TAG alerts the child and their guardian whenever they distance themselves.

Our Features

- Can transfer child to other selected Caretakers.
- Easy-to-Use APP Interface
- Synchronized Alerts, for both TAG and APP
- Secure connection.
- Keeps data secure.



Find us here