

Mental Rescuing Daruma

Care for your mental health and calm you down in stress and anxiety



Background Problems



Mental problems are becoming more and more common in today's world. They can be very harmful, but the ways to deal with them are very limited. Many people, especially those who don't have severe symptoms, often choose not to start a formal treatment but just endure the pain.

1.0 Million

Die from depression each year



Costly/No Access



Hard Without Help



Side Effect



70%

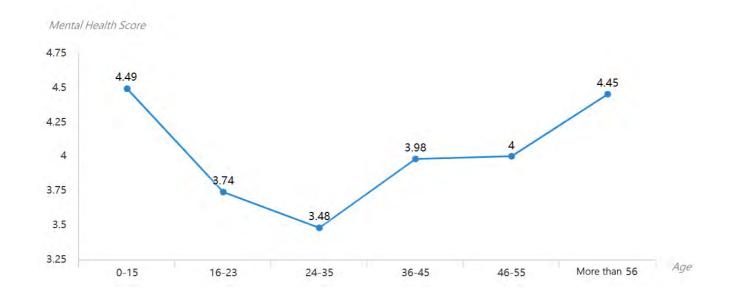
Had depressive thoughts at least once in their lives

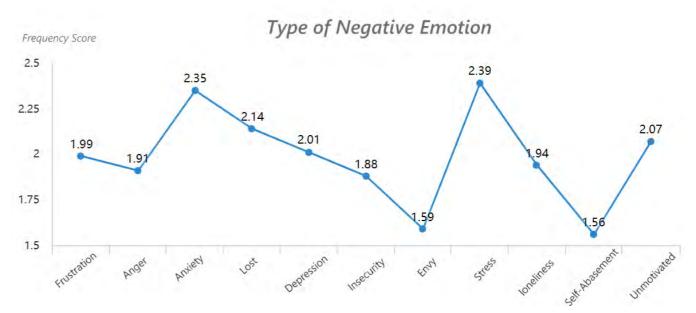
1.0 Billion

Are suffering from mental illnesses

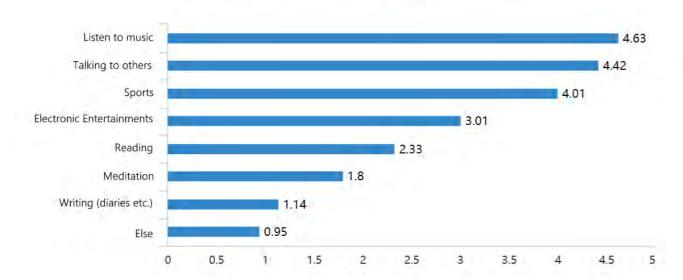
Primary Research

Method: Questionnaire (355 valid, 198 female and 157 male, basically distributed equally by age)





Effectiveness of the Self-Regulation Methods



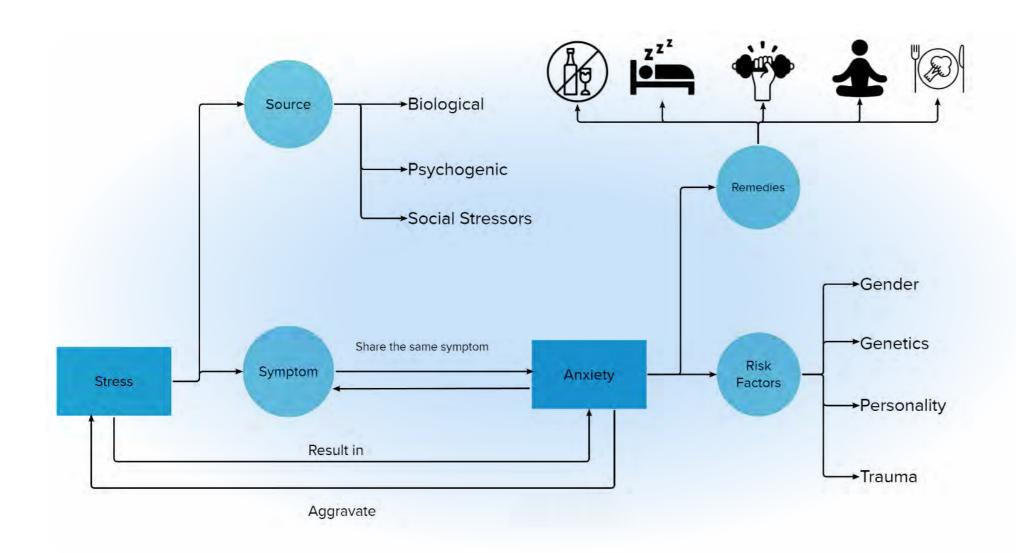
The Methods Most Chosen for Adjusting Mental State

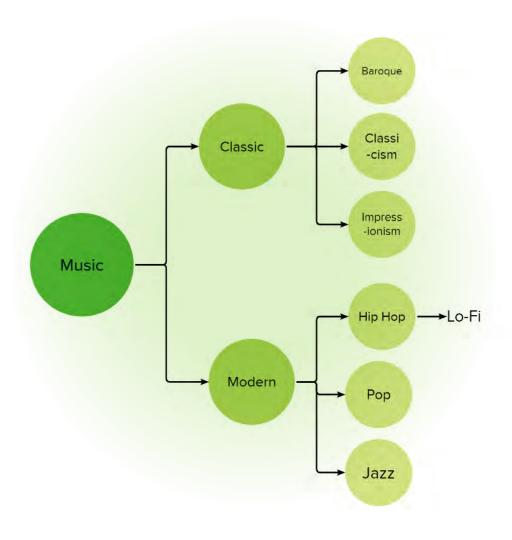
Age/Management	Music	Talk	Sports	Reading	Meditation Drinking	Online Entertainment
0-15	•	Δ				0
16-35	Δ	•	10.			0
36-55	Δ	0	•			
56-	Δ	0	•			

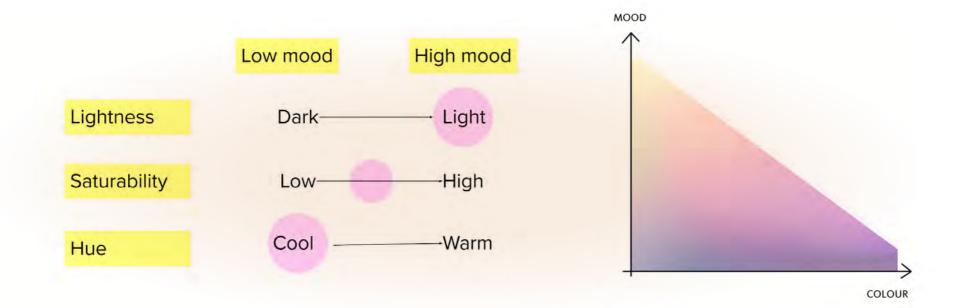
●: First ChoiceO: Second Choice∆:Third Choice

Young people between 16 and 35 are more likely to suffer from mental problems. Stress and anxiety are the problems that bother people the most. In total, most people like music and talking when they are in a bad mood, and young people also pick games as a way to lift mood.

Secondary Research





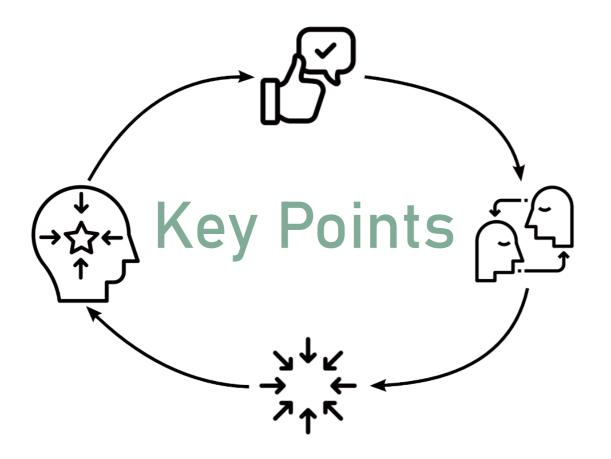


Problem Focus: Stress & Anxiety
Main Element: Music
Music Requirements: Calm, soothing
Colour Requirements: Gentle, distant

Lo-Fi Effects

Product Conception

- User: Young people with mild mental problems
- Aim: Helping people deal with stress and anxiety in their daily lives and stay good mental state
- Using environment: at home









Gamified (physical, not online)

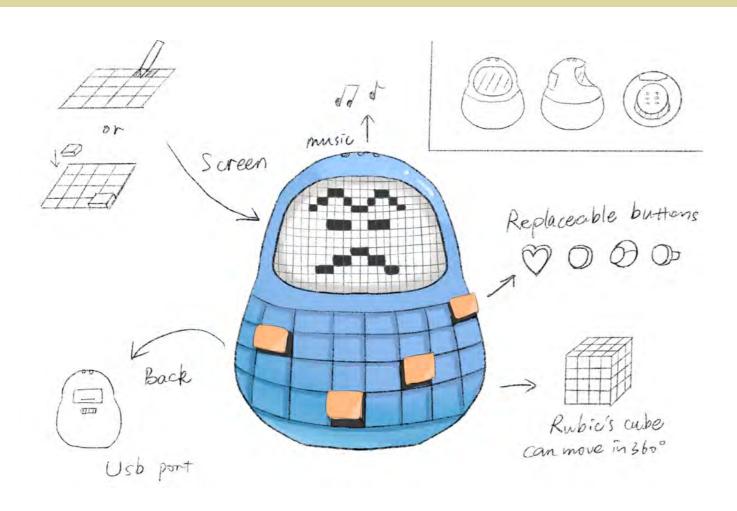


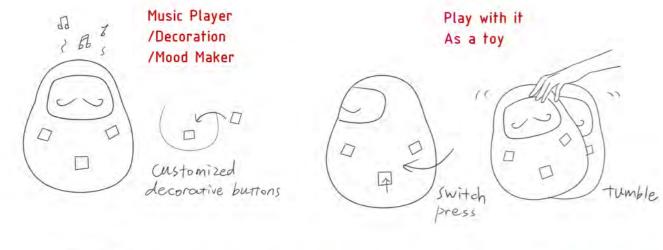
Participation Companionship

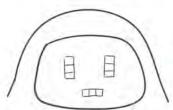


Music elements **Ambient**

Propositions •

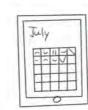




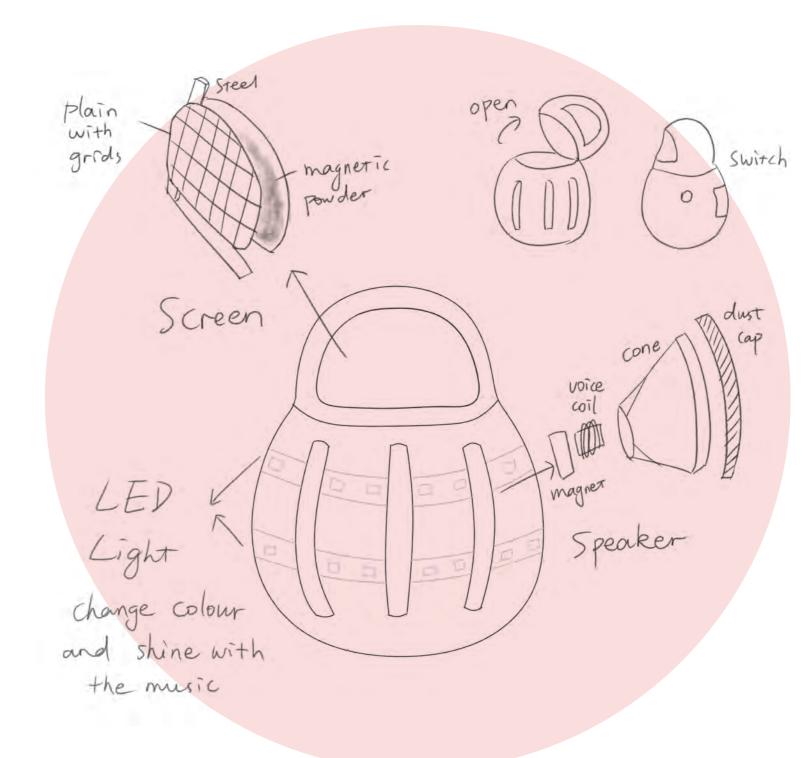


Paint the face to express your feelings of the day





The app will record your mental state and generate advice for you The initial proposition is making the product a toy that can play music. But it was too complex and lacking in unity, The second one below abandoned the game element on the lower half and made it hollow. Users can add water to it. The higher the water level is, the more Lo-Fi it sounds



Prototyping and Improvements

Prototyping



Material



Thermo -plastic Resin



Strip Lights

Magnetic

Drawing



Board

Replaced by a piece of paper for the size issue



Paint the face



Add water into it



Turn on the music



Push to play with it

Improvements

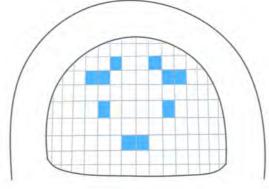
It's complex to transmit and analyze the picture on the drawing board. Change it to input from the app.

For convenience, add more buttons on the product to control the functioning.

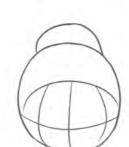
The adding water process was unnecessary. To be more straight, use progress bar to show mood.

Switches





32-bit LED display



Bottom

Filler on the bottom



Music

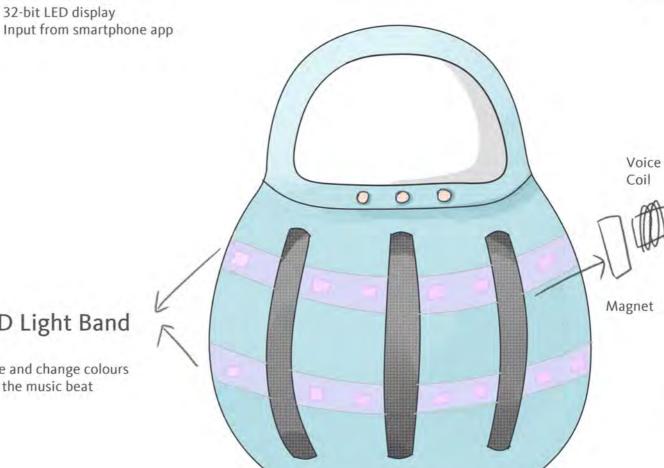


Power

Cone

Speaker

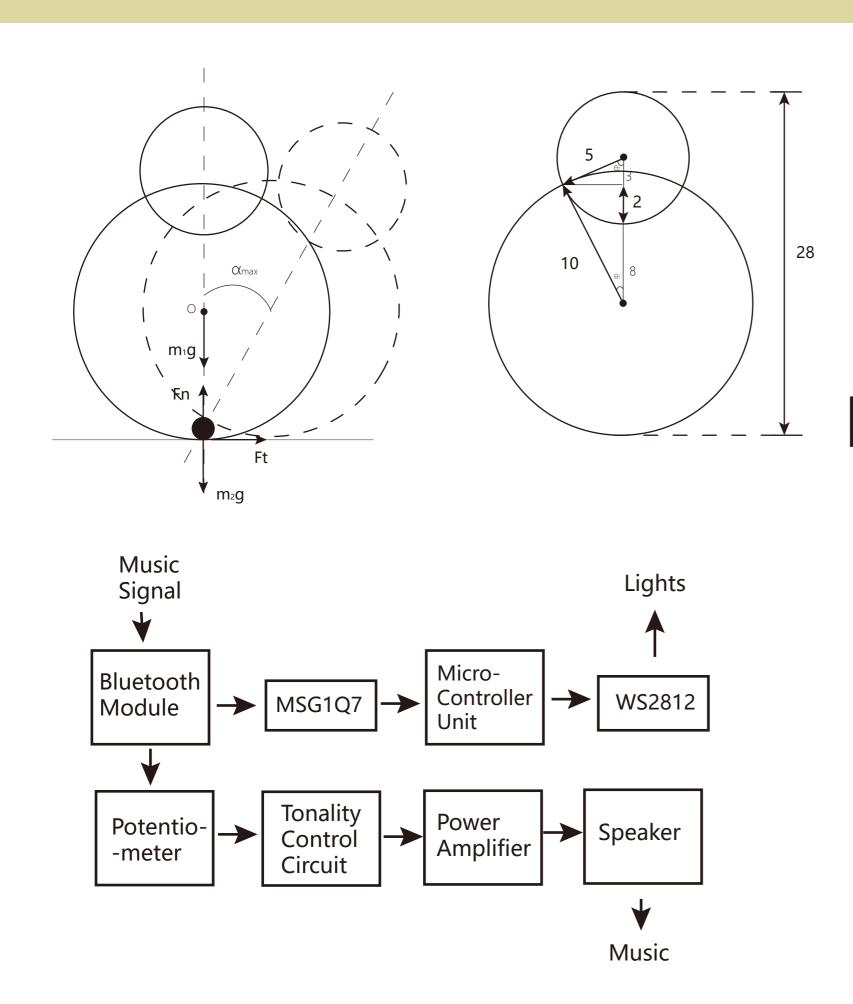
Three strips on the front Dust



LED Light Band

Shine and change colours with the music beat

Technical Considerations



Weight: 890g(shell)+900g(components)+400g(filler)

Material: Cellulose Acetate

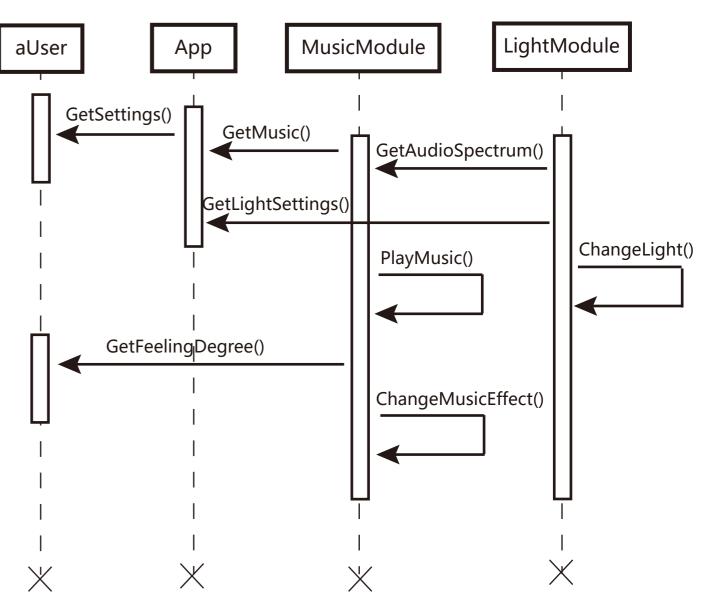
Max tilt angle: ±60°

Connecting: Bluetooth 5.0

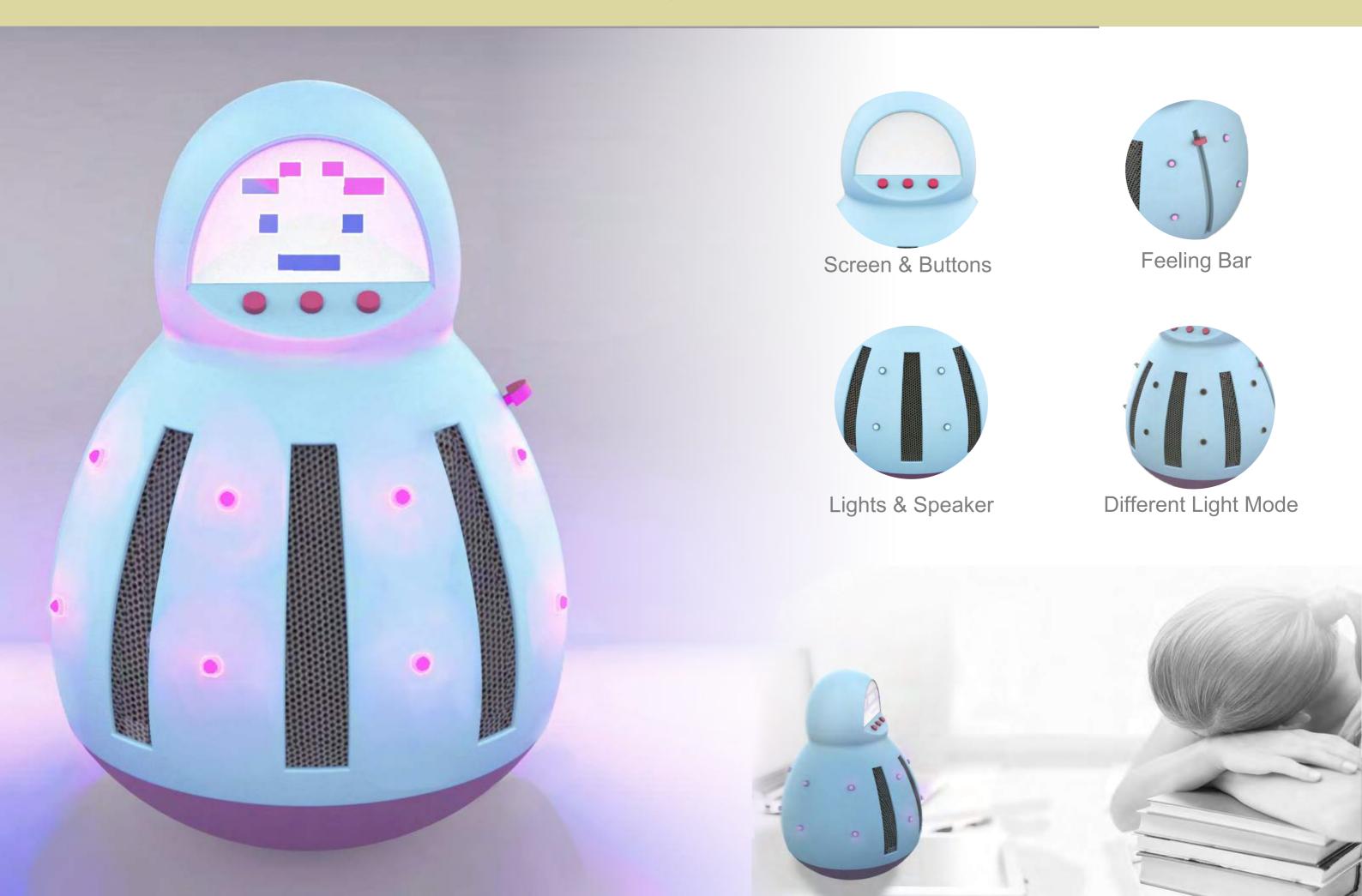
Control: Micro Controller Unit/ Chips **Operating**: Smartphone app/ Buttons

Power: Rechargeable battery (Charging through USB port)

Working time: 5h Charging time: 2h

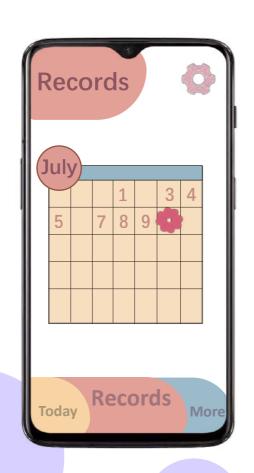


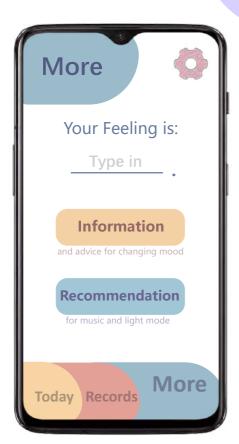
Final Embodiment



Ul Design and User Scenario

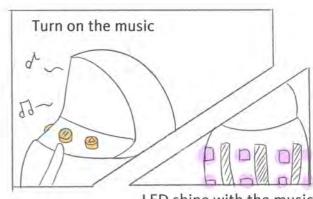




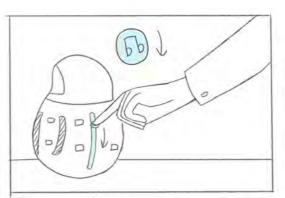


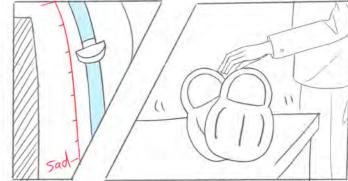






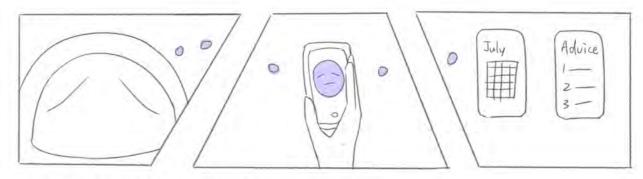
LED shine with the music





The bar on the left side stands for the mood you are in When you drag it down, the music will turn more Lo-Fi

Play with it



Paint the face to express your feelings The attached app will record your feelings and give you advice to change mood.



Accompany you and calm you down through the bad time