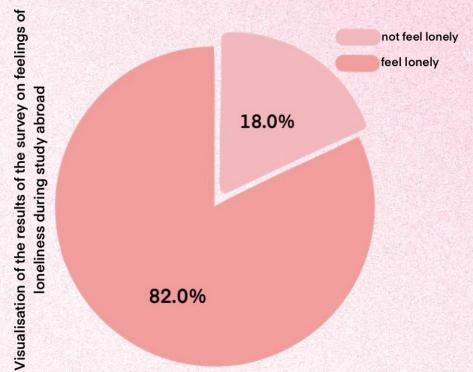


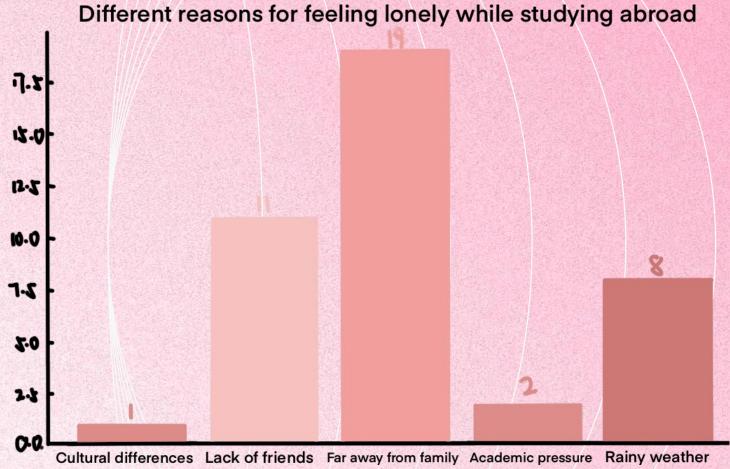
Smart pillow control system

Data Investigation and

Analysis



41 out of 50 respondents said they would feel lonely while studying abroad.



This indicates that a large part of the loneliness felt by students is due to a lack of companionship from family members or friends. Weather conditions are also an important factor.

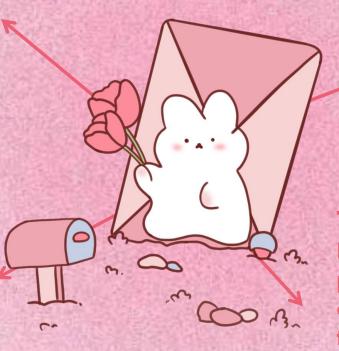
PANANAINSIS

P(people):

International students living in the UK, especially those who live alone and are prone to feeling unaccompanied.

A(activities):

International students use pillows when they are stressed or need help sleeping at night. The basic operation is simple. It soothes the user's emotions.



C(content):

Tactile simulation settings, white noise library, social square content, users save their own preferences.

T(technology):

Infinite Bluetooth link technology, pressure sensor + vibration motor, embedded heating module + temperature control sensor, built-in speaker. Multi-language switch.

On JANUTARY 10th



Kang Kang Chemical engineering undergraduate student often feels lonely mostly due to academic pressure and occasionally due to cloudy weather, which when there is too much homework makes her feel anxious and lonely.



ZOE communication design research institute Sometimes you feel lonely when it rains in the UK when you miss your family at night

User Analysis User Analysis User Analysi

Source of

Inspiration /

I need to hug a quilt or pillow when I feel lonely, and white noise can also make me relax. I think it would be more convenient to combine the two to create a smart hugging pillow.

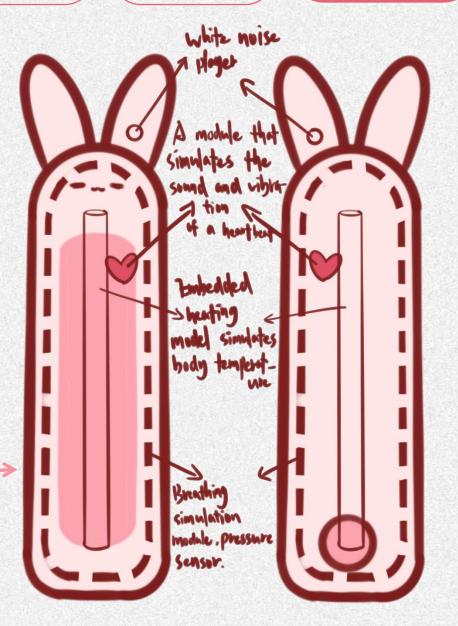
THEORETICAL

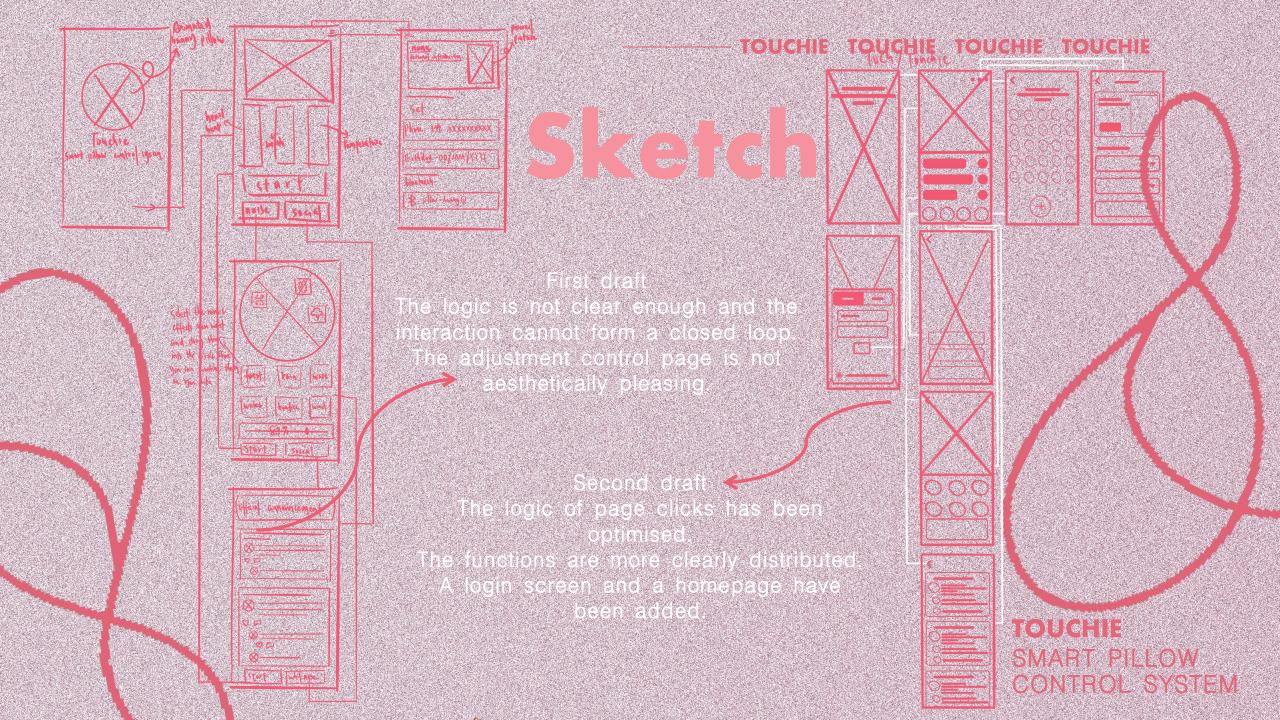
BASIS

Polyvagal Theory proposed by: Stephen Porges
Hearing a low-frequency, steady rhythm similar to the sound of a heartbeat can reduce sympathetic nerve activity and trigger a calming response.

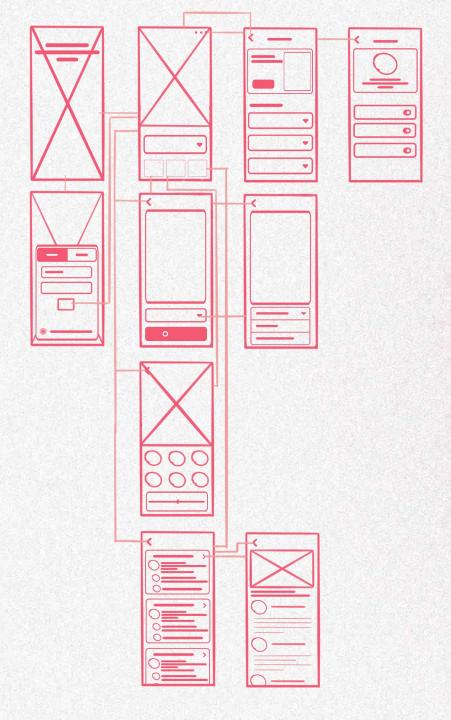
Design of Pillow

Different blocks are set up inside the pillow to achieve the desired design effect (white noise, simulated heartbeat, breathing, temperature).









Compared with the previous two versions, the final versions has the clearest interactive logic.

The interface for detailed information on social functions has been improved.

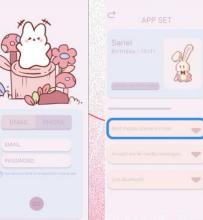
The settings page is divided into an app settings page and a personal settings page, which provides clearer and more concise information.

The design of the white noise page has been optimised to make it more aesthetically pleasing and stylish.

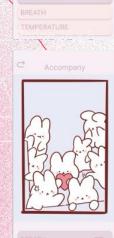
LOW-FIDELITY DESIGN

















walkthrough of app or speculative scenario: https://youtu.be/dR3FtL1860 W

evidence of testing: https://youtube.com/shorts/u NCO-UiEY4?feature=share

High-fidelity Design

The design of the app is based on the rabbit shape of the pillow and features a rabbit theme.

The colour scheme uses cute pinks and blues to add a sense of warmth.

The pages clearly distinguish between the breathing, heartbeat and temperature control sections and the white noise section. The social media section allows users to find friends with similar interests, reducing feelings of loneliness.

