

# Concept Sketches

# Smart Scale

Smart scale is a calorie-counting scale which pairs with a smartphone app to measure and monitor a person's calories intake.

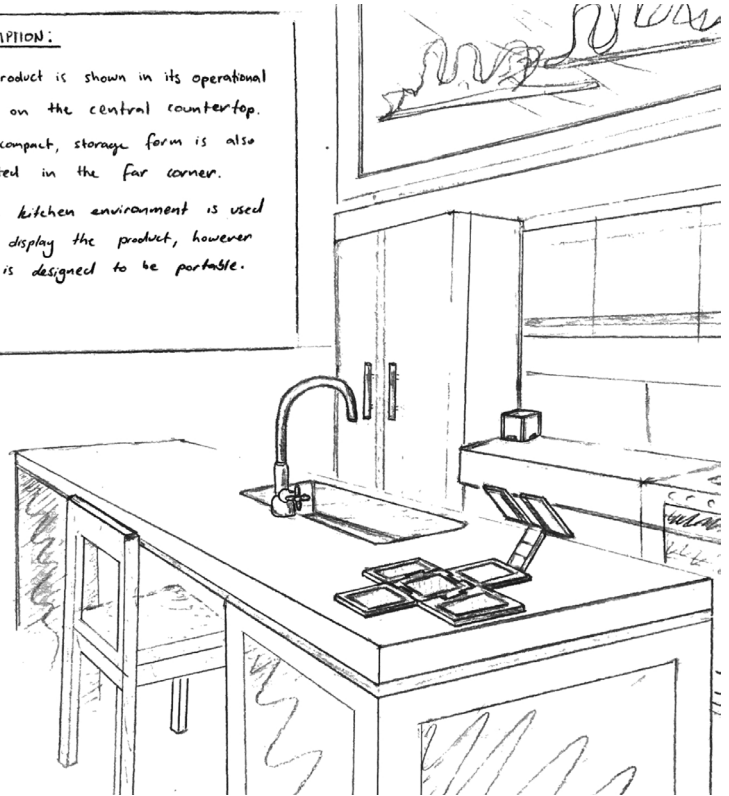
This product helps solve the problems of current app-based calorie diaries, which require users to undertake a lengthy process of weighing every meal, searching through databases to find food types, and estimating the calories they consume.

A physical 'internet of things' device can speed up this process by instantaneously weighing and identifying food types, automating the process of recording a food diary.

## DESCRIPTION:

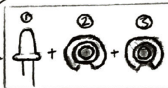
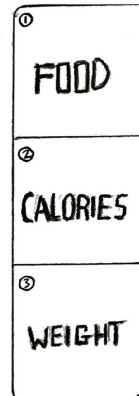
The product is shown in its operational form on the central countertop. The compact, storage form is also depicted in the far corner.

- The kitchen environment is used to display the product, however it is designed to be portable.



## SCREEN DISPLAY

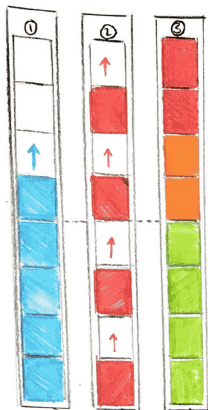
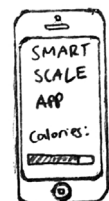
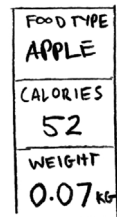
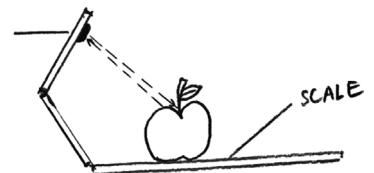
- ① Displays food type determined by IR and colour cameras.
- ② Uses data from scales + cameras to estimate and display the # calories of the food.
- ③ Displays weight measured by scales.



## SENSORS

- ① Infrared emitter  
Sends out IR radiation
- ② Infrared Camera  
Receives IR radiation and determines size/depth of foods.
- ③ Colour Camera  
Uses computer vision / AI to visually determine food - type.

## CAMERA



## LIGHT DISPLAY

- ③ Display 'fills up' as daily calorie limit is approached (green-red)
- ② Display flashes red once daily calorie limit has been exceeded
- ① Display 'fills up' blue to show progress as food item is weighed and scanned.

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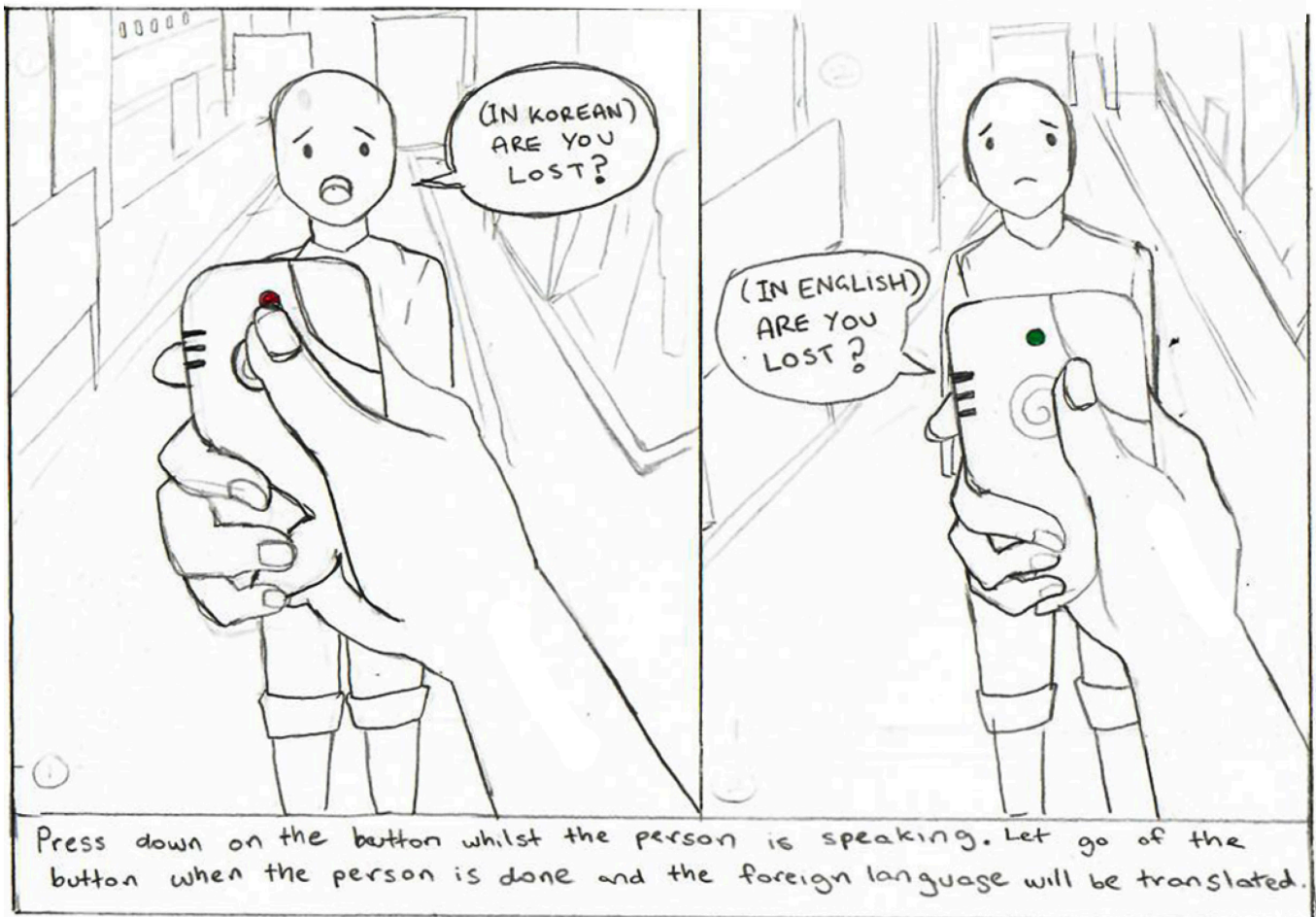
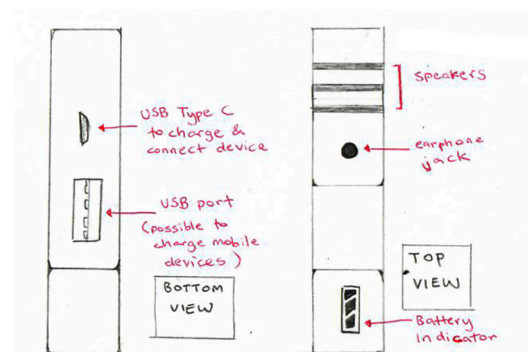
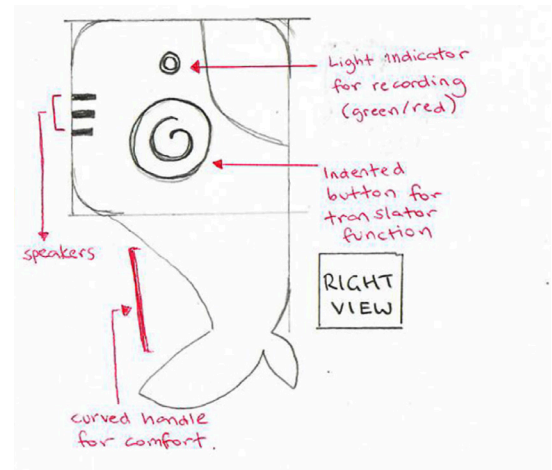
# Bwhable

A crossover of the words "Babel and whale" with a smidgen of a reference to babble; Bwhable is the new live translator available for anyone, anytime.

It is simple to operate with a quick click of a button to listen to the words being spoken, before it is translated online and spoken to you in audio form. Bwhable gives you a choice to use it as a group through a speaker, or with more privacy through headphone jacks.

A light indicates to the user the status of Bwhable, making it easy to check if the device is working correctly. A green light turns on to indicate Bwhable has switched on and when the main button to record is pressed, it turns red to indicate that it is recording as intended.

The curve of the device and its size make it comfortable to hold and operate with one hand. The aesthetics appeal to a young demographic, targeting prospective student travellers.



# Concept Sketches

# Augi

How many times have you found yourself driving with one hand on the steering wheel, and the other discreetly holding your phone down out of sight? If you answered with even once, you owe it to yourself to continue reading.

Introducing Augi, a portable, hands-free device that wirelessly streams data from your mobile phone, encodes it, then projects it anywhere on your car windscreen. Augi incorporates patented algorithms within its software that allow anyone to use any app completely hands free when connected to an Augi device.

That way, Augi can display on-screen GPS navigation, traffic conditions and optimised routes. Users can make and receive calls, send and receive texts, and check their social media news feed. They can change their favourite tunes, check the weather, and even make a video call.

Augi reduces the need to look away from the road and allows drivers to keep both hands on the steering wheel, allowing them to do the things they usually do – only safer.

