A weather app for cyclists

Mobile UI display: **https://youtu.be/WNVhRzTku3s**
Watch UI display: **https://youtu.be/MuxF5kkQZWI**

1. Preliminary PACT analysis of biker users.

CYCLISTS
AND
MOTORBIKE RIDERS

PACT
ANALYSIS

PEOPLE

- Cycling or motorbike to school → **Students**
- Cycling or motorbike to work → **Commuters**
- Cycling or motorbike for exercise → **Exercisers**
- Cycling or motorbike to travelling → **Travellers**

ACTIVITY

- **Weather forecast**
- **Road forecast**
- **Congestion forecast**
- **Gas station forecast**
- **Weather check**
- **Travel Advice**
- **Navigation**

- wind
- rain
- fog
- snow
- sun
- temperature
- humidity

CONTEXT

- Congestion → **City**
- Flat Roads
- Gentle slopes
- Mountainous terrain → **Wilderness**
- Jungle

TECHNOLOGY

Phone
- Bluetooth detection
- Data output
- Data input
- communication

iWatch
- Bluetooth detection
- Data output
- communication

2. Through the investigation and analysis of cycling users, the weather APP was reformed.
The main purpose is to enrich the unique experience of cycling users of the weather APP, formulate special function Settings for special groups of cycling users, make it more convenient to use the weather APP, and increase the spiritual care and practical operation of cycling groups. For example, weather congestion prompt, exit prompt, special weather warning, weather music care, voice control and so on are added. Innovate and optimize according to the needs of cycling users.

USER INFO

USER IMAGE

MOTOR	BIKE

GENDER	MALE
AGE	25
NAME	LIAM
DISEASE	NO

SCHOOL	WORK
TRAVEL	SPORT

SUBMIT

SPECIFIC INFO

← SUNNYDAY NO. 55 →

10, 000 KM — DISTANCE

5 KM — ROUTE

MONDAY TO FRIDAY — WORK DAY

40 MIN — ROUTE TIME

8:00 ~ 9:00 — WORK TIME

17:00 ~ 18:00 — WORK TIME

CITY — CONDITIONS

FLAT ROADS — CONDITIONS

USER FUNCTIONS

USER 1

5 KM
MONDAY TO FRIDAY
40MIN
Liam   8:00 ~ 9:00 17:00 ~ 18:00
25   CITY
MALE   FLAT ROADS

Time and date ⬤

Weather forecast ⬤

Weather check ⬤

Congestion forecast ⬤

Road forecast ⬤

Exit tips ⬤

↓

FUNCTION INFO

MONDAY 01/03/2021   **8 : 30 AM**

5:00 ~ 10:00	SMALL RAIN
10:00 ~ 19:00	SUNNY
19:00 ~ 24:00	BIG RAIN

TUESDAY 02/03/2021 ▼

• • •

Congestion at two locations
Estimated travel time 30 minutes

Home   Work

▲ You will need to bring rain gear.

▲ You need to be aware of the congestion times and avoid the heavy rain.

Temperature	2 ~ 8
Humidity	81%
Wind	South wind 6m/s
Sunup	6:30 am
Sunset	7:00 pm
Air pressure	1022 p
Fog	No

3. This is a partial sketch of my prototype interface, the first part of each page is user portrait data. (Cyclists and motorcyclists)

USER INFO

USER IMAGE

MOTOR | BIKE

GENDER | FEMALE
AGE | 22
NAME | MARY
DISEASE | NO

SCHOOL | WORK
TRAVEL | SPORT

SUBMIT

SPECIFIC INFO

← SUNNYDAY NO. 201 →

500, 000 KM — **DISTANCE**

200 KM / DAY — **ROUTE**

EVERYDAY — **WORK DAY**

6 HOURS — **ROUTE TIME**

9:00 ~ 12:00 — **WORK TIME**

14:00 ~ 17:00 — **WORK TIME**

WILDERNESS — **CONDITIONS**

MOUNTAIN ROADS — **CONDITIONS**

USER FUNCTIONS

USER 2

200 KM
EVERYDAY
6 HOURS
Mary | 8:00 ~ 9:00 | 17:00 ~ 18:00
22 | WILDERNESS
FEMALE | MOUNTAIN ROADS

Time and date ⬤
Weather forecast ⬤
Weather check ⬤
Gas station forecast ⬤
Road forecast ⬤
Exit tips ⬤
Navigation ⬤

FUNCTION INFO

MONDAY 01/03/2021   **4 : 00 AM**

5:00 ~ 12:00   **SMALL SNOW**
12:00 ~ 24:00   **BIG SNOW**

TUESDAY 02/03/2021 ▼

• • •

There are two gas stations ahead
You can refuel
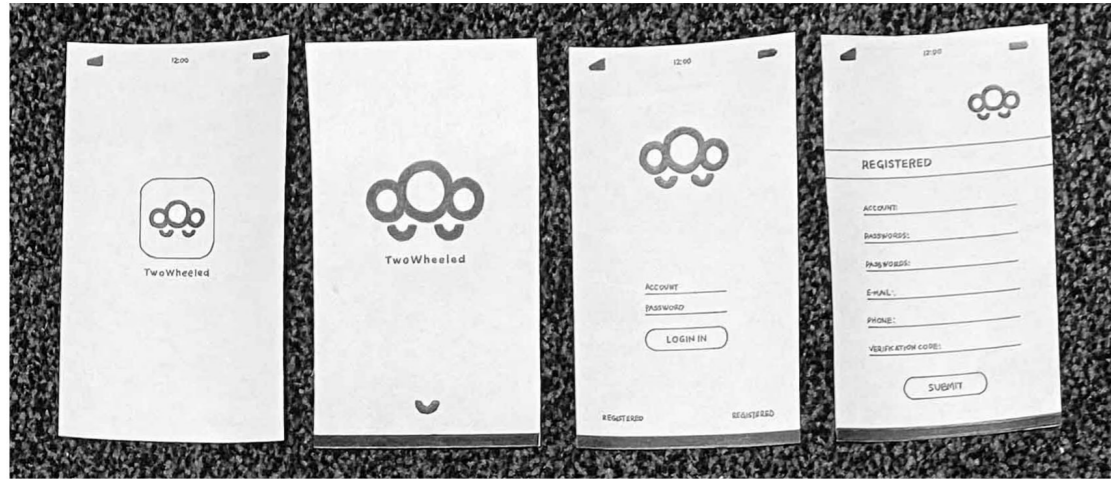
Start   End

▲ Slow down on slippery roads.

▲ Bring snow gear.

You

Temperature
2 ~ 8
Humidity
51%
Wind
South wind 6m/s
Sunup
6:30 am
Sunset
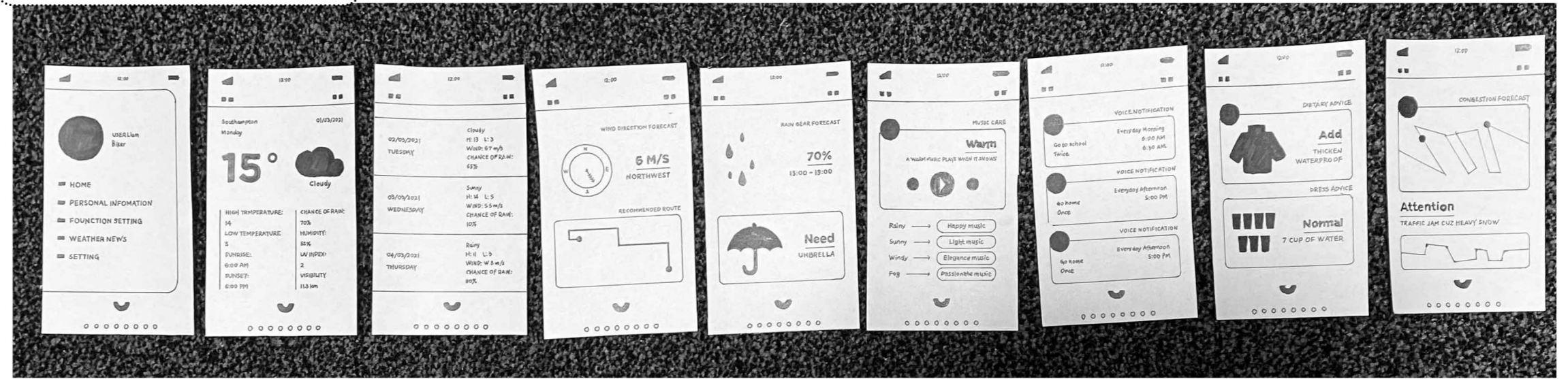6:00 pm
Air pressure
1022 p
Fog
No

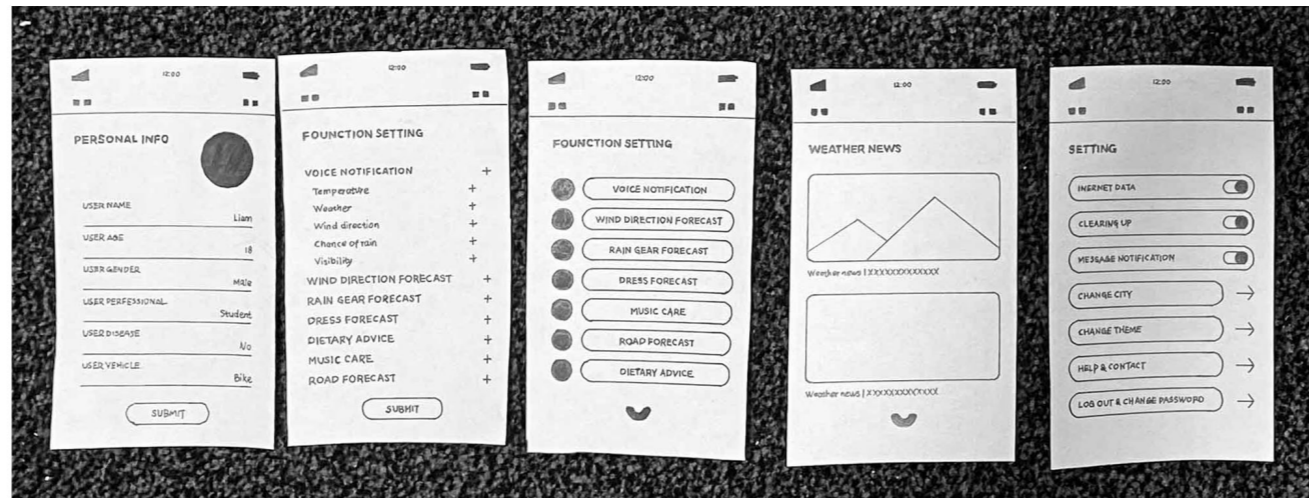**4. This is all the function page in the app.**

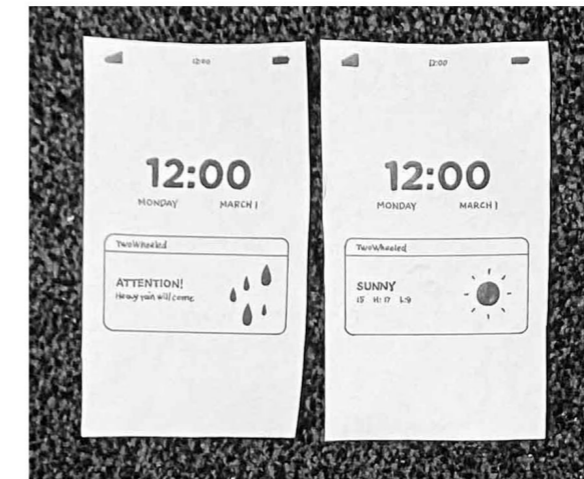APP icon design and login interface

LEVEL 3 INTERFACE

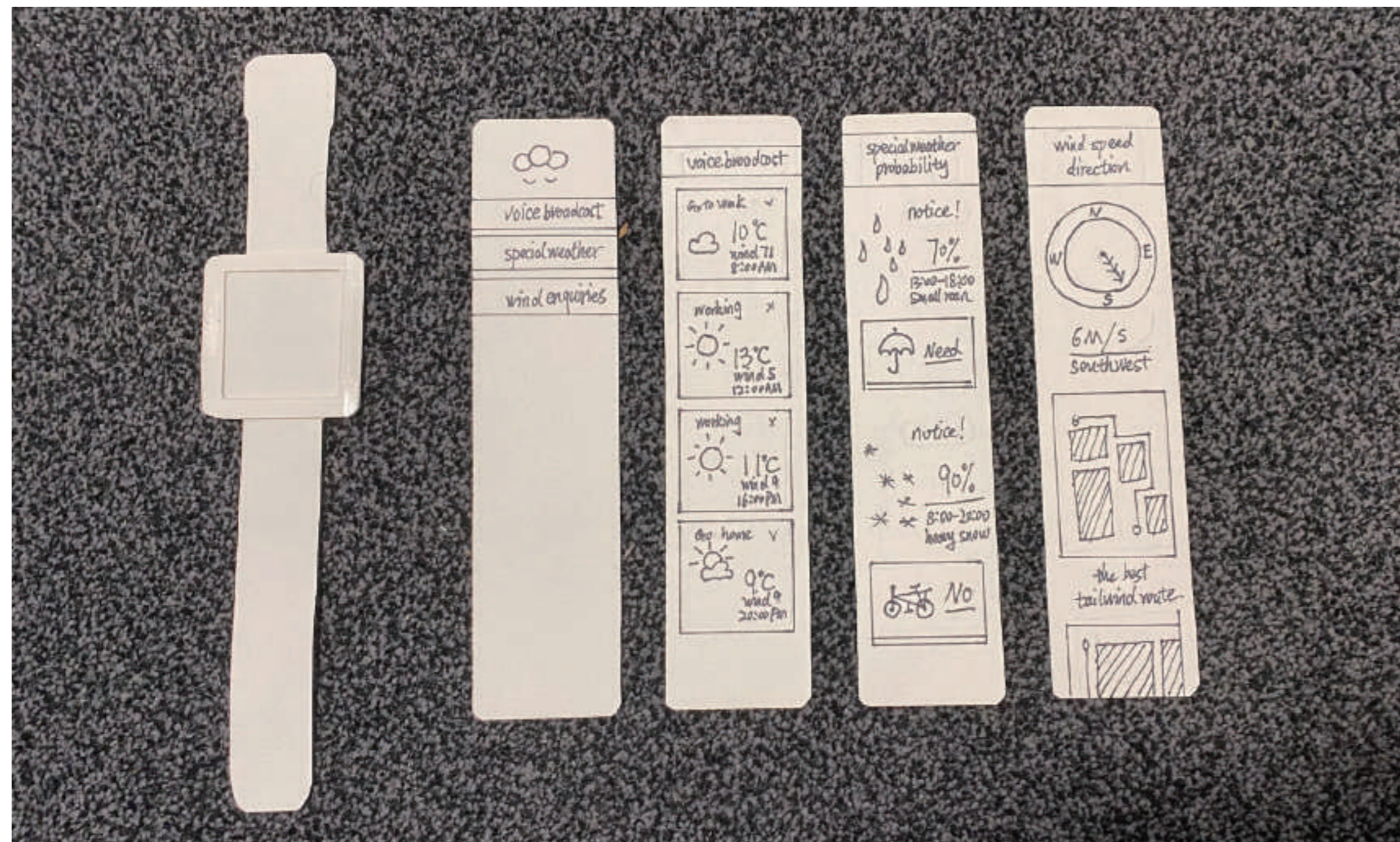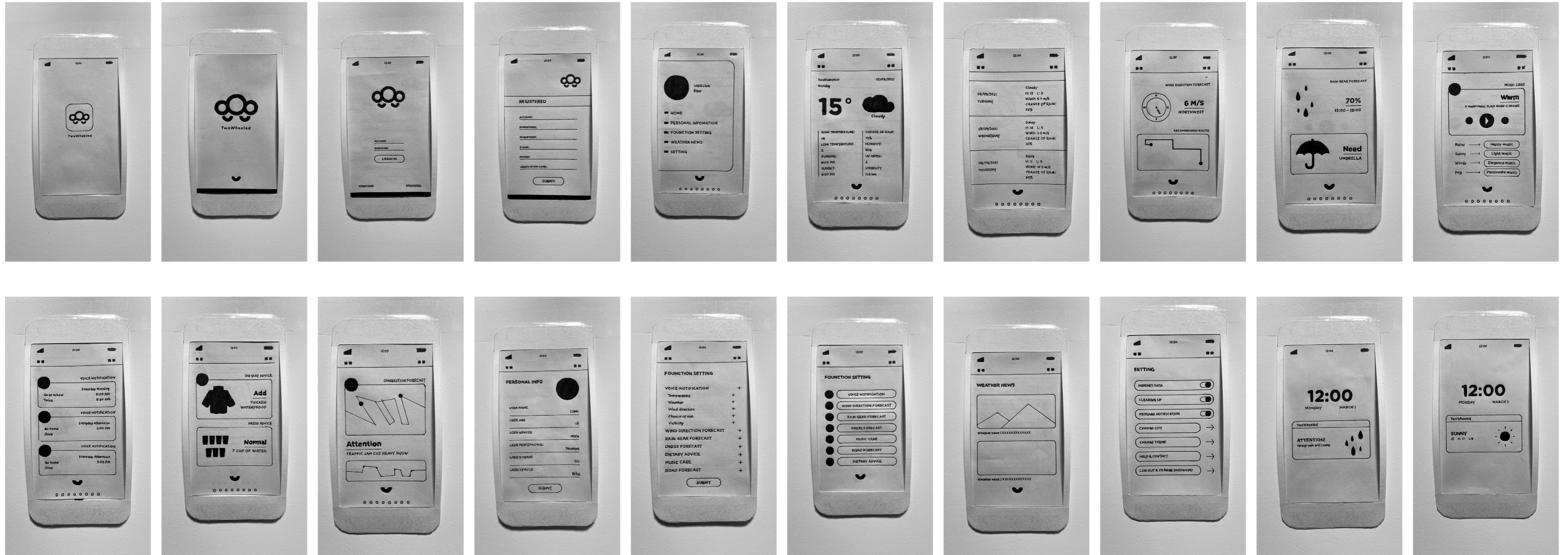Cycling users with special needs weather function operating interface

LEVEL 2 INTERFACE

Home page and basic menu function page of cycling users

LEVEL 4 INTERFACE

Pop-up information notification page

5. Prototype page display.

Voice broadcast function

Since it is difficult for users to use mobile phones when they are working or riding, they can set up voice control and timed voice broadcast.
For example, when you get to work in the morning, there is a weather report at 8 o 'clock. There will be a weather report at 12 o 'clock. 16 o 'clock, 20 o 'clock and so on, we can set it ourselves.

Special weather probability forecast

Through the analysis of the probability of rainfall, a prompt window pops up, indicating the probability, time and size of rainfall. At the same time, the user is reminded to bring rain gear.
This is an indication of the probability of snow, and the same thing is the probability of snow, when it falls, and how much snow it falls. At the same time, the user is advised not to ride a bike.

Wind speed and direction enquiries

This is the query of the wind direction and speed in the weather, you can judge whether it is suitable for riding a bike according to the wind direction and speed. The feature also suggests the best downwind route for riding.

The design of the icon

the upper part of the icon to simplify the design of the shape of the cloud, three circles constitute the concept of the cloud.

Below, two semicircular elements appear, like wheels, representing the wheels of the riding vehicle.

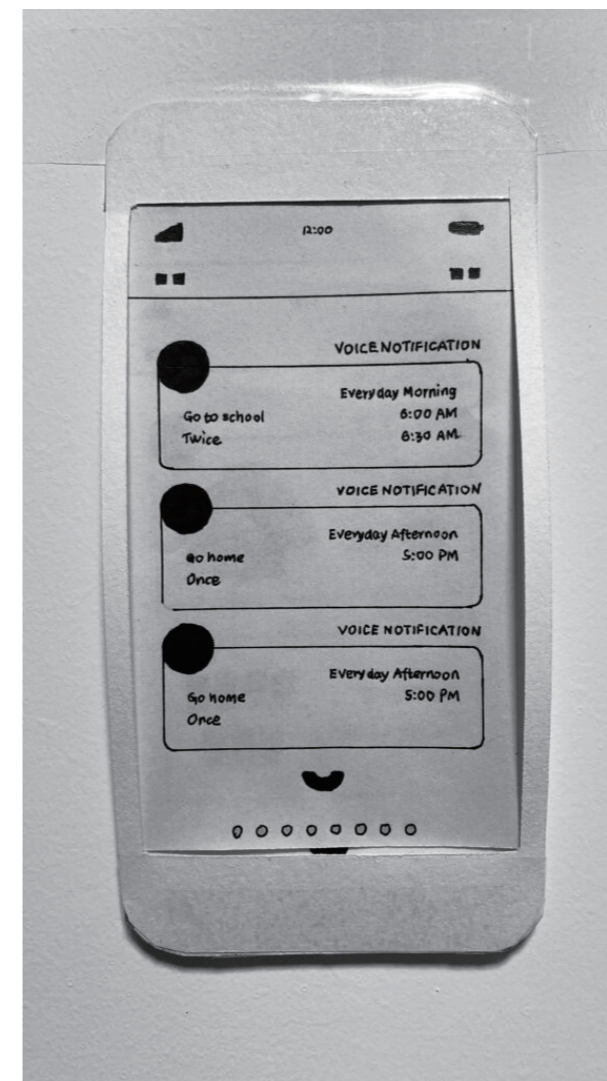**Wind speed and direction enquiries**

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