Project 3-Weather APP

Research

Cycling

From Wikipedia, the free encyclopedia

For the hockey strategy, see Cycling (ice hockey). For the magazine, see Cycling Weekly.
"Bicycling" and "Biking" redirect here. For the magazine, see Bicycling (magazine). For the Frank Ocean song, see Biking (song).
"Cyclist" redirects here. For the magazine, see Cyclist (magazine). For the 1987 Iranian film, see The Cyclist.

Cycling, also called **bicycling** or **biking**, is the use of bicycles for transport, recreation, exercise or sport.[1] People engaged in cycling are referred to as "cyclists",[2] "bicyclists",[3] or "bikers".[4] Apart from two-wheeled bicycles, "cycling" also includes the riding of unicycles, tricycles, quadricycles, recumbent and similar human-powered vehicles (HPVs).

Bicycles were introduced in the 19th century and now number approximately one billion worldwide.[5] They are the principal means of transportation in many parts of the world.

Cycling is widely regarded as an effective and efficient mode of transportation[6][7] optimal for short to moderate distances.

Bicycles provide numerous possible benefits in comparison with motor vehicles, including the sustained physical exercise involved in cycling, easier parking, increased maneuverability, and access to roads, bike paths and rural trails. Cycling also offers a reduced consumption of fossil fuels, less air or noise pollution, reduced greenhouse gas emissions,[8] and greatly reduced traffic congestion.[9] These have a lower financial cost for users as well as for society at large (negligible damage to roads, less road area required). By fitting bicycle racks on the front of buses, transit agencies can significantly increase the areas they can serve.[10]

In addition, cycling provides a variety of health benefits. The World Health Organization (WHO) states that cycling can reduce the risk of cancers, heart disease, and diabetes that are prevalent in sedentary lifestyles.[11][12] Cycling on stationary bikes have also been used as part of rehabilitation for lower limb injuries, particularly after hip surgery.[13] Individuals who cycle regularly have also reported mental health improvements, including less perceived stress and better vitality.[14]

Among the disadvantages of cycling are the requirement of bicycles (excepting tricycles or quadricycles) to be balanced by the rider in order to remain upright, the reduced protection in crashes in comparison to motor vehicles,[15] often longer travel time (except in densely populated areas), vulnerability to weather conditions, difficulty in transporting passengers, and the fact that a basic level of fitness is required for cycling moderate to long distances.

Cyclists in the 2009 Tro–Bro Léon race.

Police cyclists in London.

In daily life, cycling is a low-carbon mode of travel and a sport, but more people are willing to regard cycling as a sport

The following video recommends 10 excellent riding apps：
https://www.youtube.com/watch?v=A4_AJkktqdE&t=207s

According to these excellent apps, I have summarized the following characteristics:
You can share your itinerary and cycling information with friends.
Real-time weather notifications remind riders of local temperature changes.
Real-time statistics, you can know your average speed, distance and calories burned during riding, etc.

PACT:

People： People who like to ride can ride more conveniently and safely

Activity： People who ride long distances can check the weather, clothing suggestions, map

navigation and voice recognition.

Context：Because many scenic spots do not allow motor vehicles to enter, it takes a long time for tourists, which makes tourists feel bad. Moreover, this application can push the weather conditions of the scenic spot in advance, the clothes recommended to wear, and the strength of ultraviolet rays., Let tourists prepare for play in advance.

This app can also remind visitors where there are many people and where there are few people, and supports a navigation system to let visitors choose by themselves. The app will record the riding time of tourists and calculate the calories burned.

Technology：Traffic data of scenic spots or parks. Navigation System. Weather forecast push. Bluetooth connection bicycle technology. System for calculating cycling motion.

Weather apps

Here are some researches I have done to view the popular weather apps present:

Best weather apps 2020 | Top apps
https://www.youtube.com/watch?v=0uAX9JyKSjk

Persona:

Sketch:
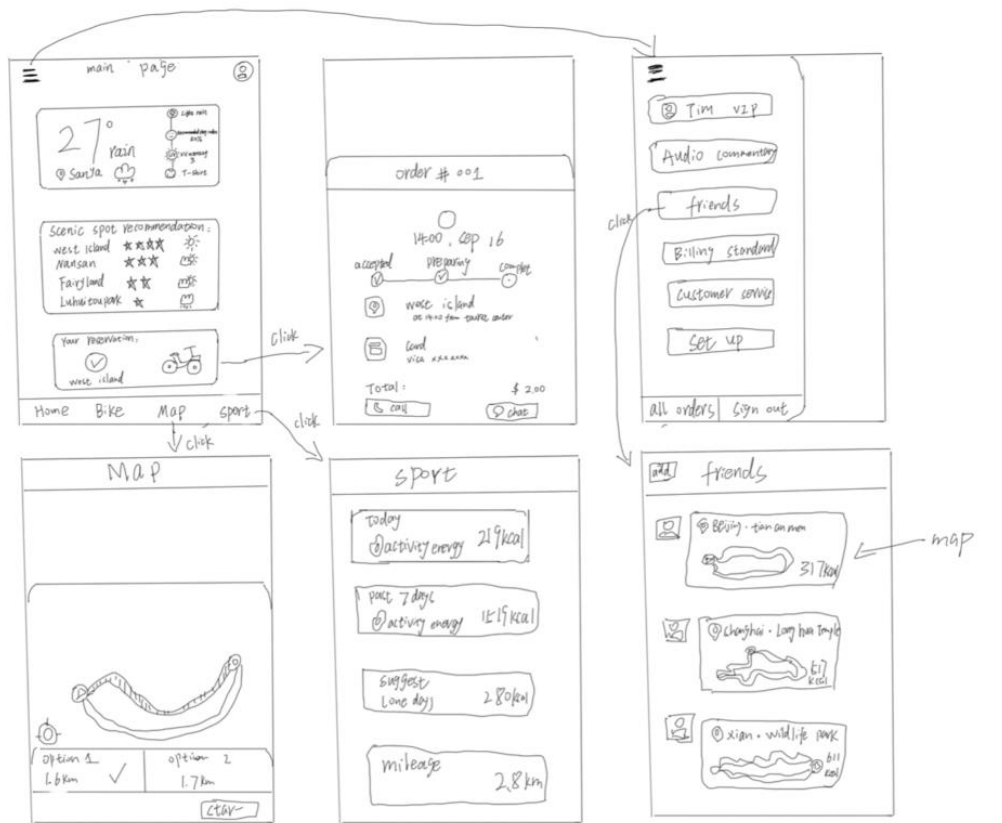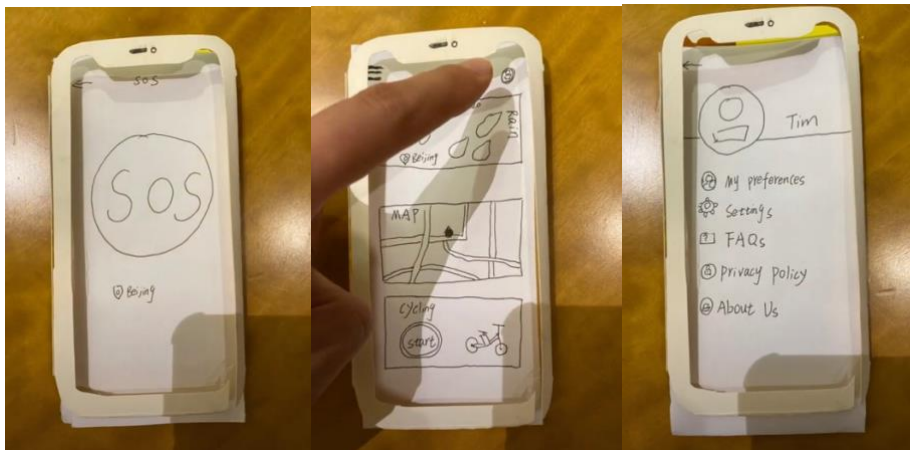

First iterations:

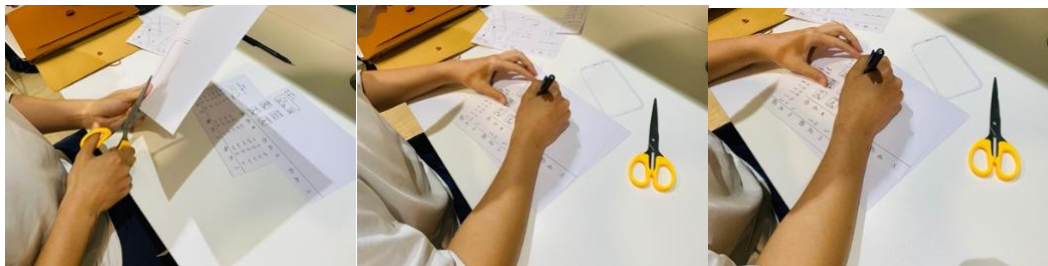First version：
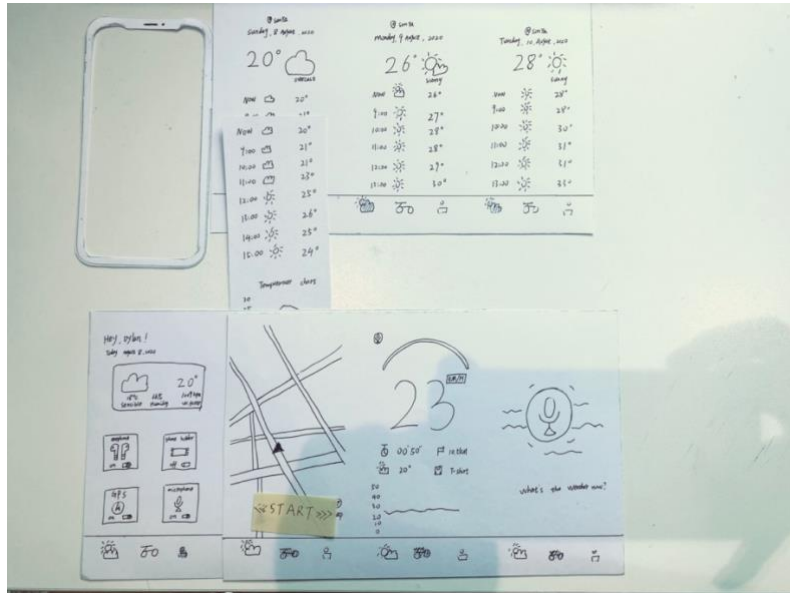https://www.youtube.com/watch?v=snlORSG-Ows
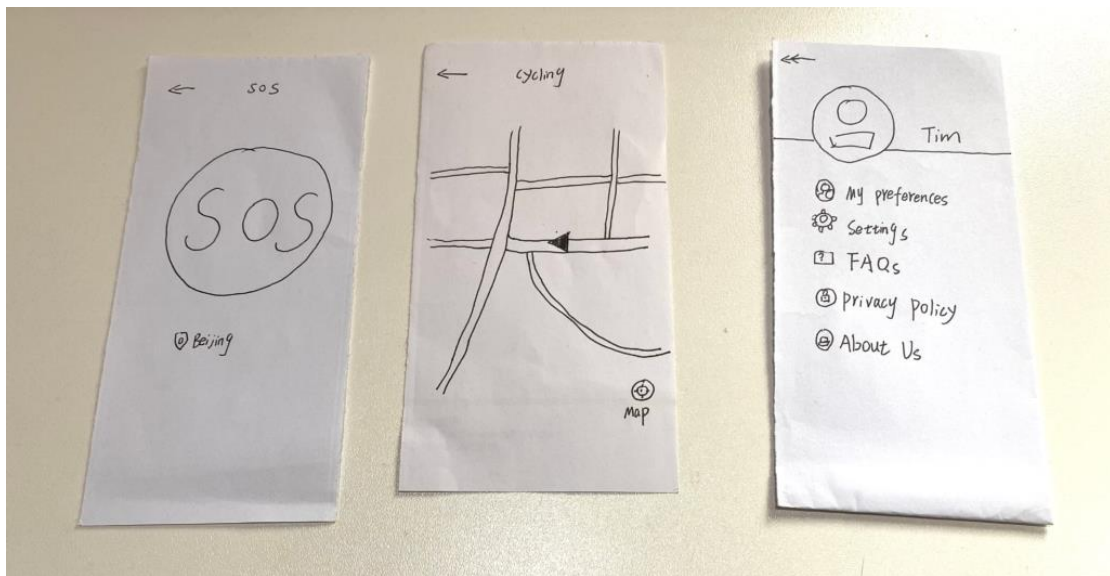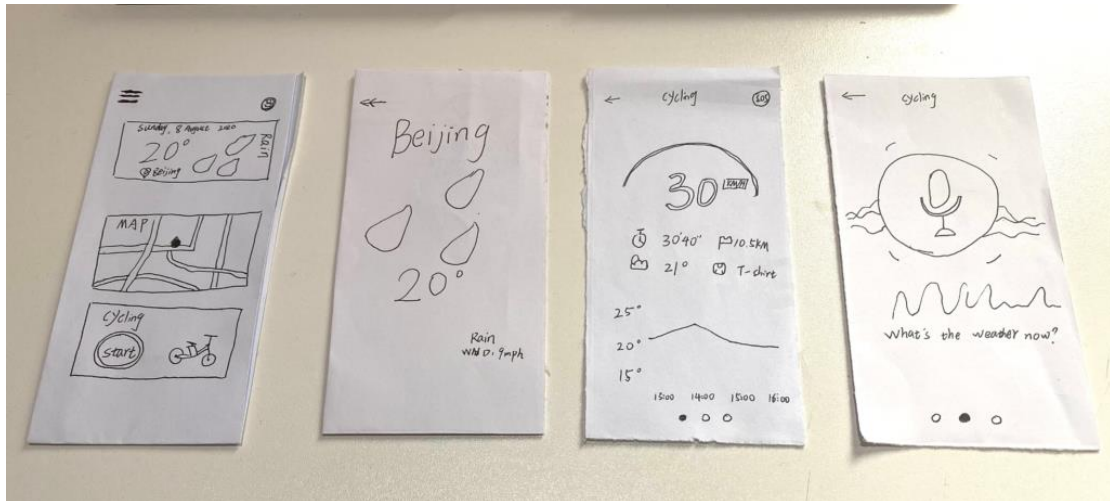
Feedback：
The operation interface is too simple, and some basic operations need to be added

Second iterations：

Final refinement:

https://www.youtube.com/watch?v=eegmELNx6rE