

Open the gate Individual Work 2020.1

BRIEF

China lacks high-quality history education products for children. Compared with other countries, Chinese children are not very interested in Chinese history. However, there is an old saying that "taking history as a mirror can predict the rise and fall of the country." Learning history is so important in the development of children. When they formally received history education at the age of 13, the best time to cultivate interest in history learning had passed. To solve this problem, I designed a history learning app for children aged 7 to 11. The app replaces the thick history books with animation games that can be learned while playing, so that children can immerse themselves in the world of history. The product has a positioning function, and when the child arrives at a place to travel, he can also quickly understand the local history and culture. When they arrive at a famous historical scenic spot, they can turn on the AR function and experience the time of going back to the historical events, witnessing the repetition of the historical scene. My UI design is inspired by blue and white porcelain, and it has strong Chinese characteristics.

Key Words

Chinese history AR technology Children

Background

Professor Wes was introduing the history of Anterwerp Belgium



When I was studying in Belgium as an exchange student, I found that the local teachers and students were familiar with the history and culture of their own cities and were very interested in the history of other countries or cities. Even some buildings that didn't look very special, they could tell me the stories about them. This makes me reflect on the history education in China.

Rethink



Outdoor

Few people set foot on the great rivers and mountains

Indoor



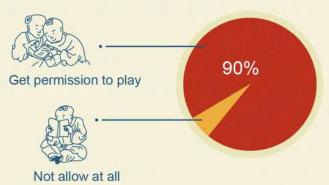
Hard to understand and thick historical books

China's history and culture are broad and profound, which requires us to study patiently. However, facing the heavy academic pressure, children can no longer have a real interest in history. Therefore, I hope to make children fall in love with Chinese history and culture from an early age, and look up at China's great rivers and mountains.

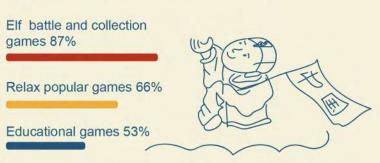
Data Analysis (Questionnaire)

About games

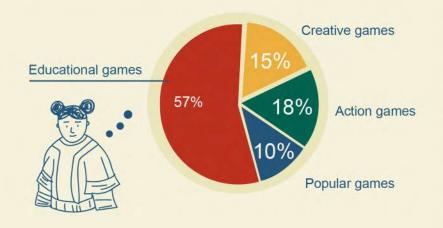
1. Children's use of electronic equipment



2. Types of games children want to play

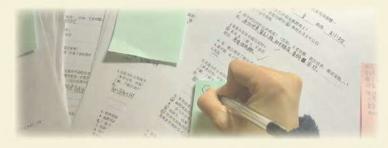


3. Types of games children often play



Photo

Sort out the questionnaire information (250 children aged 7-11 The concrete operational stage)



About history



Interesting historical illustration book 76%



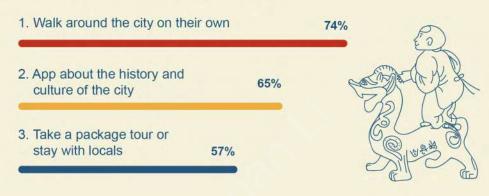




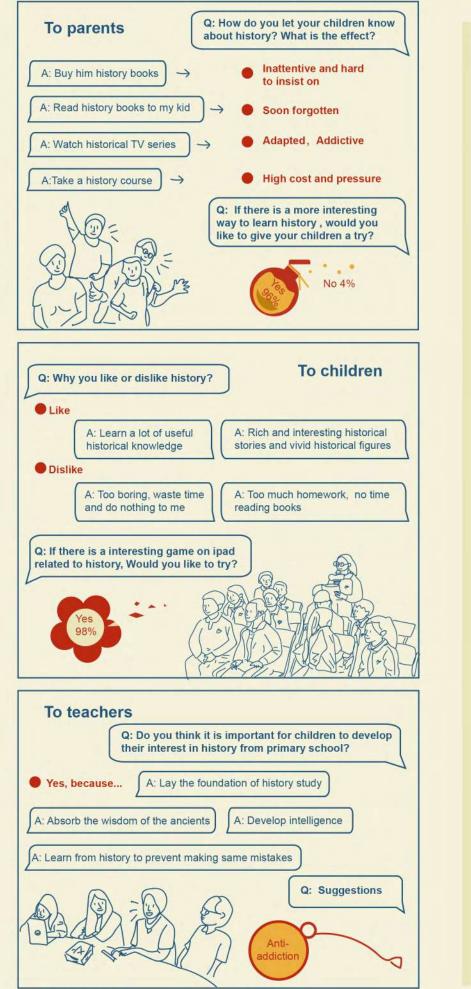
2. The reason why children don't search the information about city on their own initiative

- 48% Waste too much time Have no much time to do the search work
- 42% Existing introductions are boring Only insipid words and pictures of poor quality make the searching work difficult to be continued
- 33% No a specific way of learning There's too much information in search engine, it's not easy to find what I exactly want





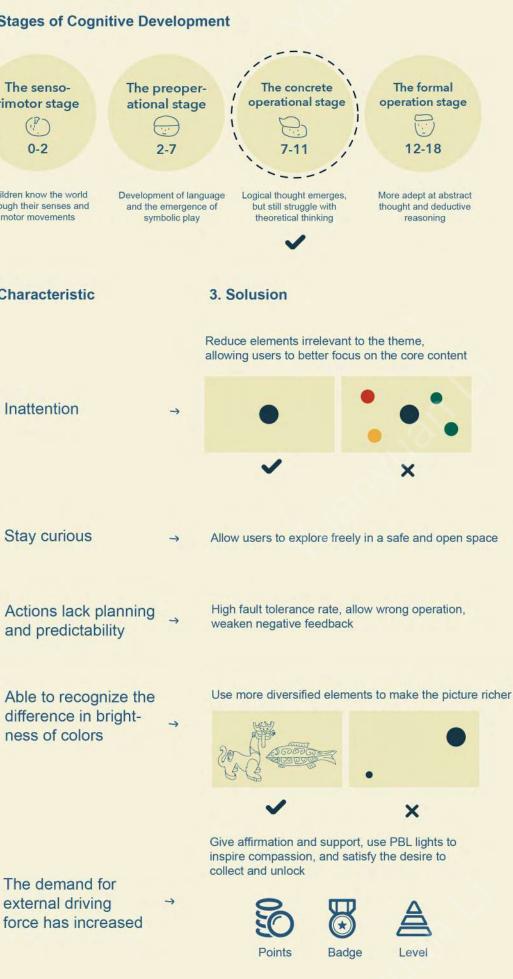
Interview In School



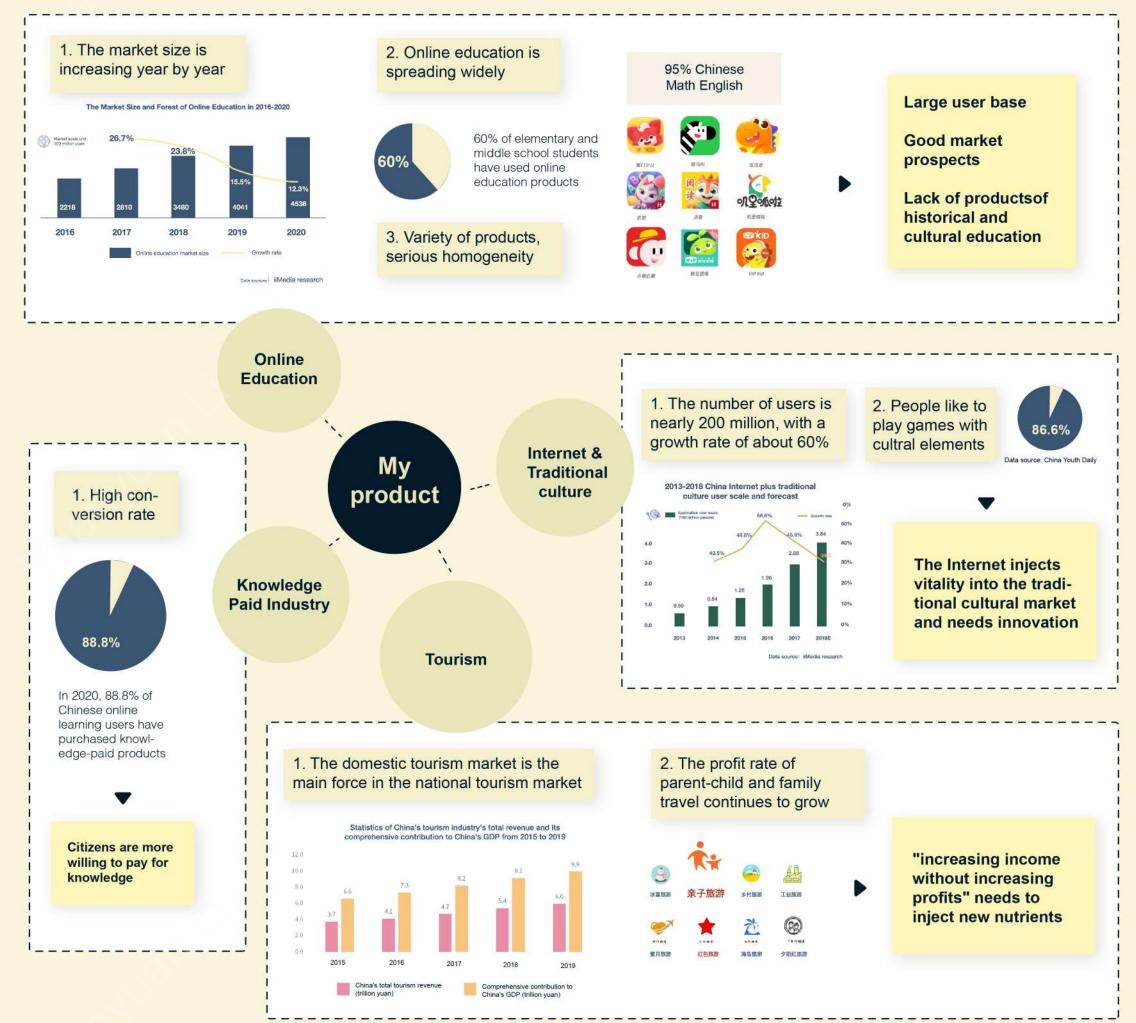
User Research

1. Stages of Cogni
The senso- rimotor stage
Children know the world through their senses and motor movements
2. Characteristic
Inattention
Stay curious
 Actions lack pl and predictabil
Able to recogn difference in binness of colors
The demand for external driving





Market situation



The Business Model Canvas

Key Partners

Provide syllabus and suggestions:

Professors and students majoring in Chinese history in universities

Early childhood history education practitioners

National Historical and Cultural Research Association

Provide feedback from real users:

Pilot educational institutions and scenic spots

Linkage with other cultural industries:

Major publishing houses

Key Activities

1. Design and develop app framework

2. According to the syllabus, make the teaching content into an interactive game, and continue to iterate

3. Customize AR value-added services for each scenic spot

4. Bring it to the market

Key Resources

1. A team familiar with the design and coding of online education products

2. Professors from different majors

3. A lot of school and government resources

Value Proposition

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Improve user experience: Attract users and increase influence by increasing professionalism and introducing new technologies for learning history and for sightseeing

Promote education of Chinese history and culture:

Cultivate people's habit of paying attention to history and culture, and enhance cultural self-confidence

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Cultivate interest in Chinese history and culture:

Using technology and combining user needs to lead users into the world of history in a more relaxed and interesting way

Customer Relationships

Personal assistance:

Customize different AR guidesfor different scenic spots

Self sevice:

Users can use different functions and learn different content on the platform according to different needs

Channels

Online: Official account, Video account, Own website Appstore recommendation, Behance...

Offline: Scenic spot announcements, School recommendations, Billboards

Government propaganda

Cost Structure

Fixed costs:

Server (Tencent cloud), operating expenses, employee salaries, cooperation expenses

200

Virable costs:

Activities

Revenue Streams

Membership fees, course unlock fees, franchise fees for school institutions, franchise fees for various scenic spots, registration fees for offline activities, government project funding



Brainstorm

History 00000 Classroom sta 1EEr 24 Yr 2 m stud Parents A TV play Dull and telling historical Passive accep adapted obscrure words in tance of stories books knowledge istory Chinese children Active generally have a Learnin Low understand ing of the city's Traditional Contenl history and culture Combining k with pratice Education Less time (and patience Learn more An app about history Lack of easor Painpoints EIGE history for education Encourage children exploratio 6-15 Feel boring year-old Solutions Games children Satisfy Users Iside mode Role playing Parent-child relationship Children's - Outside mode Function Sign up history parents summer camp Help children VR TESH Learn history Use app to repair 311 ana cultire ranking historical trip IVAI \$P? E.

Function definition



Inspiration

1. Wonderful Painting



Platform

Attractive and unique art style

Creative interaction methods

Show the beauty of Chinese

traditional culture

Confusing game process

Only one person can play

Weaknesses

Educational (

Heuristic **@ @**

Strengths

Basic Info

Game type: Interactive narrative

Users: Young people

Introduction

Based on the traditional painting style, combined with the ancient myths and folklores derived mainly from Chinese traditional ancient books, the core of which is the hand tour of environmental interaction, object collection, puzzle solving and plot promotion

Influence

Challenging @ @ Entertaining OOOO

2. App of IKEA



Platform

Strengths

Thoughts

Change the color and

Experience different

Can it be more playful?

Innovation S S S

Heuristic 😍 😎 😎

material of of the furnitures

perspectives according to the

height of adults or children

Basic Info

App type: AR

Users: Furniture pickers

Introduction

IKEA launched a new virtual reality app called virtual reality kitchen. Consumers can preview the decoration effect through AR technology before purchase

Influence

Practicality Entertaining 🤝

An



3. Artistic transformation

Background

While traveling in Changsha province China, I photographed graffiti in the old alley. It seems to pull me back to the old China a

Basic Info

Art type: Combination of wall painting and real old objects

Introduction

On the wall were painted two children riding bicycles. They wore clothes that were in line with the old China period

Discarded old bicycles parked near the wall for nearly a hundred years

Influence

Educational 🚔 🚔 Entertaining 🚔

hundred years ago.

Strengths

Added interest

Creating atmosphere

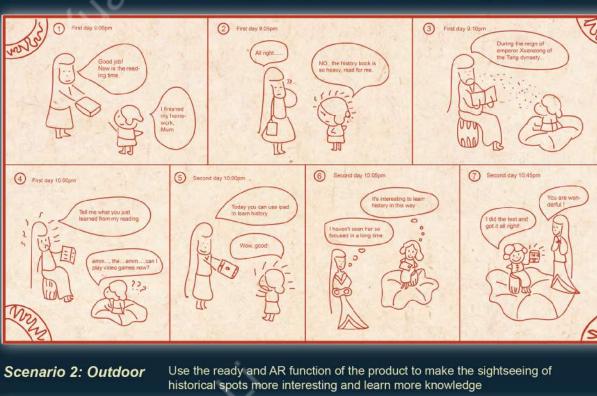
Weaknesses

- Not playful enough
- Poor interactivity
- Hard to change

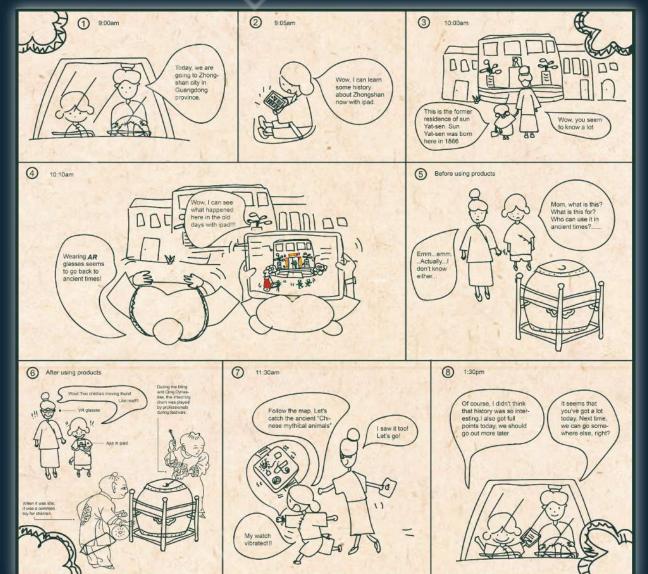
Innovation 🚔 Heuristic

9 Storyboard

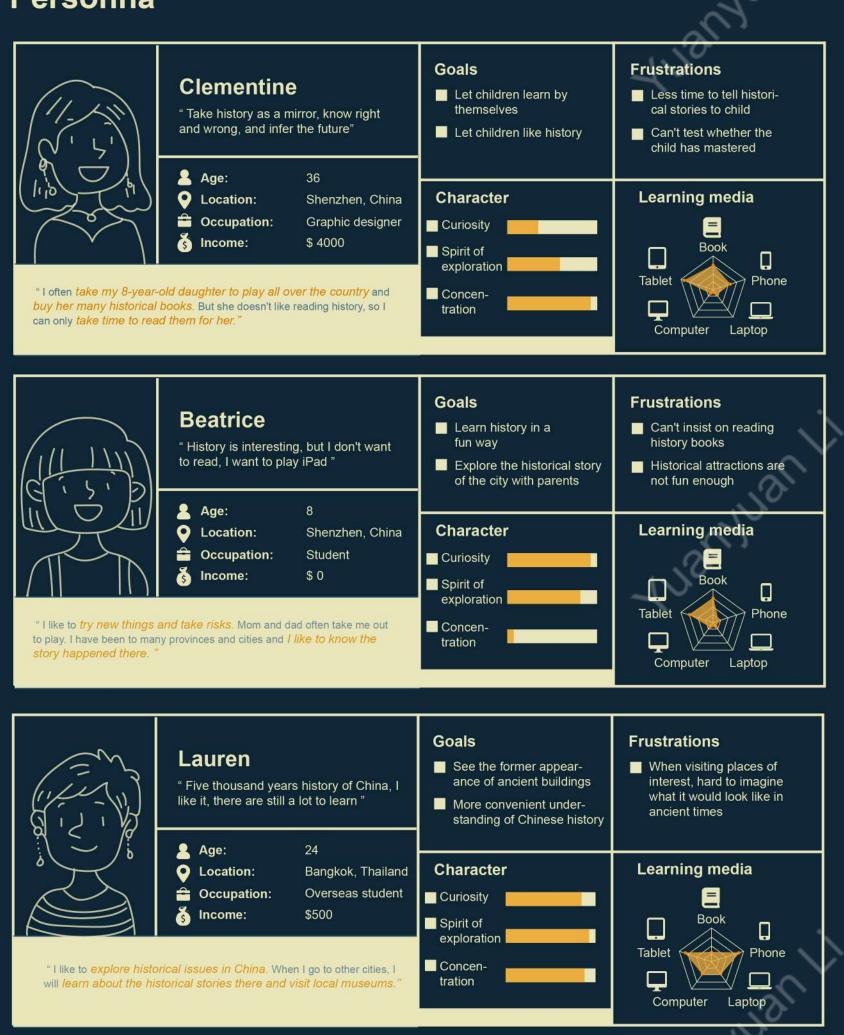
Scenario 1: Indoor



Before: Bored, Easily distracted, Hard to remember After: Active learning, High efficiency, Feel interested

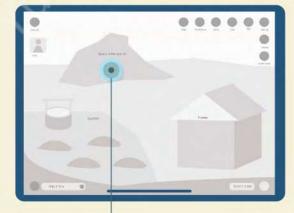


Personna



Wireframe

Home page



Provide

secret

base

Click

time

"Space

tunnel" to

enter the

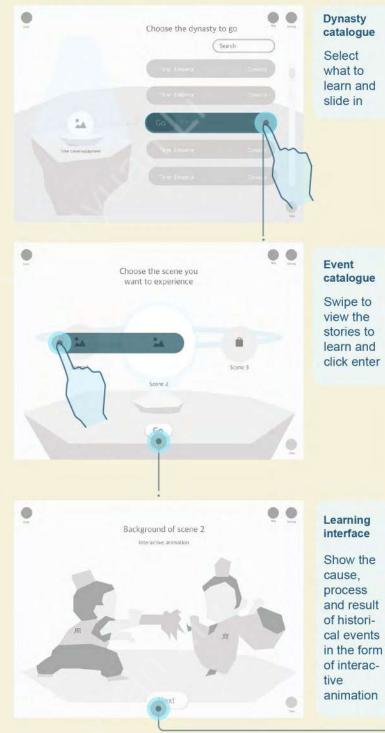
learning

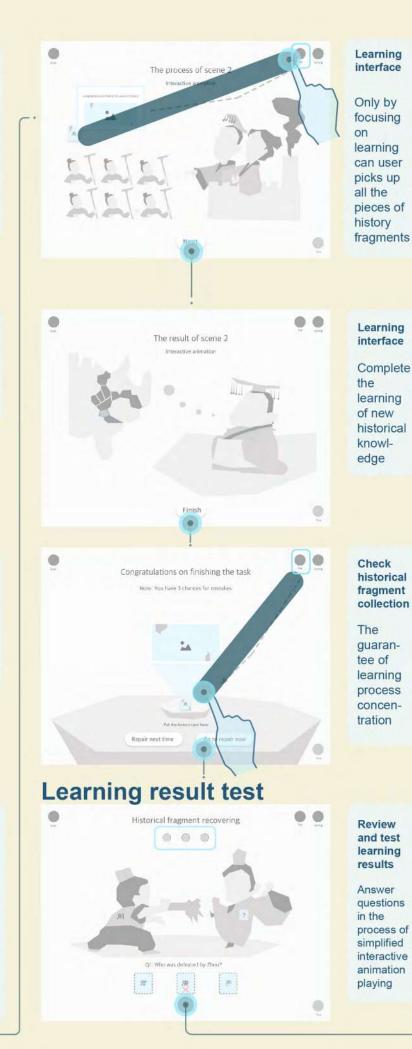
directory

users with

a suitable

Daily learning





. Historical fragment recovering 0 0 商 唐 Next Congratulations on repairing the historical fragment 14 0 ... Congratulations on developing your own historical map ... Here are your rewards Monney #10:0 Now seech

Founction: Store

Review and test learning results

Users have three opportunities to answer wrong. If they fail the test, they need to learn again

Receive

awards

Put the

repaired

historical

fragments

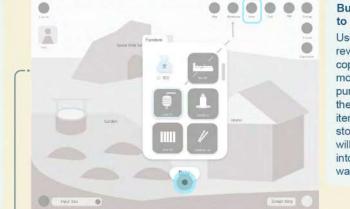
into the

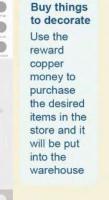
receive

rewards

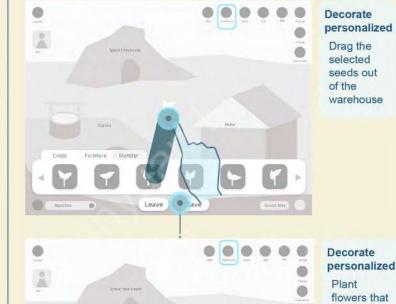
and

backpack





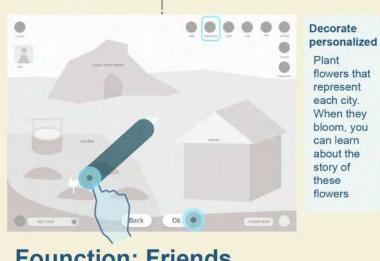
Founction: Warehouse



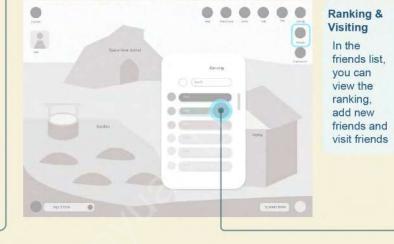
Develop own historical map Historical map matches historical events with geographi-cal location, learn more own map bigger

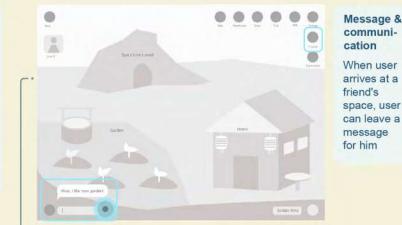
Receive awards

Rewards will be synced to home page

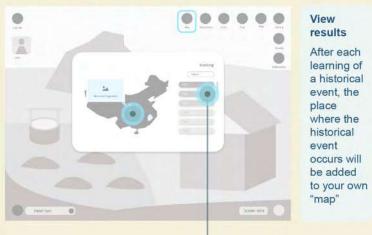


Founction: Friends



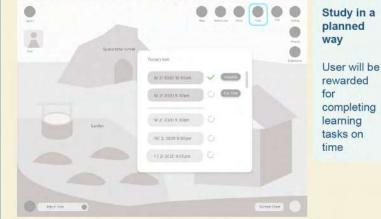


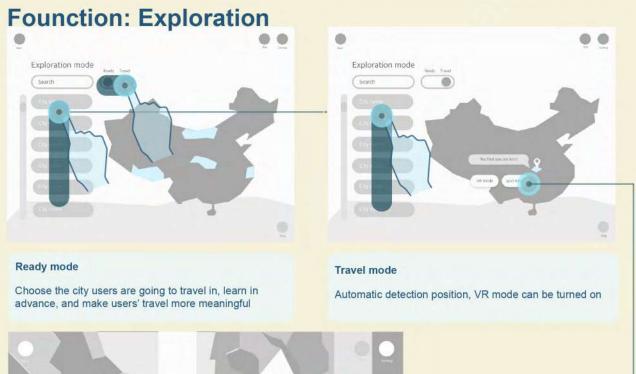
Founction: Map

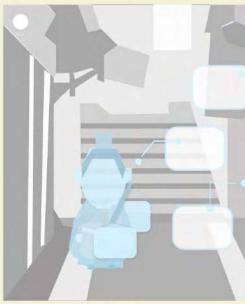


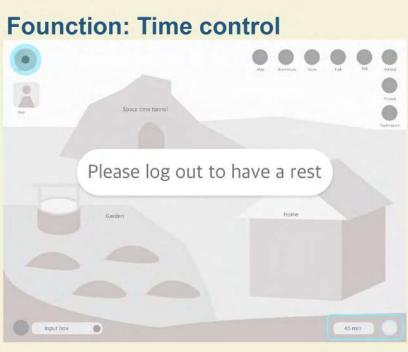


Founction: Tasks











User can choose AR glasses or ipad to see historical scenic spots, it will make user feel seems to be in ancient times

Protect eyesight

15 minutes for one study, 5 minutes for one test, 30 minutes in total

Logo design

App name



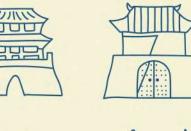
City gate plays a very important role in ancient China . When the gate opens for you, you can hear the distant call from the ancient city of history.



China is the hometown of porcelain, blue and white porcelain is one of the important representatives of Chinese ceramics.

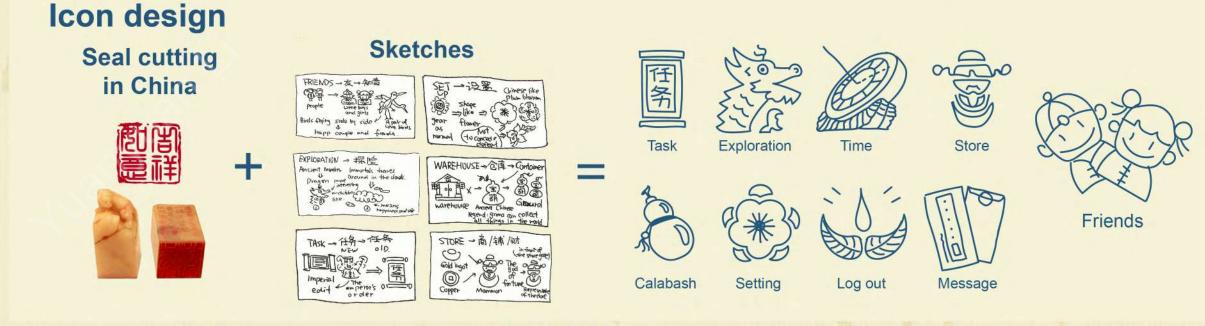
PT-DE

Sketches

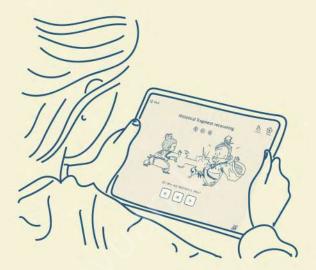








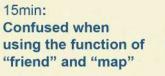
Test observation



Observation duration

7min: Decreased concentration





35min: Eye fatigue



Merge two functions



30 minutes per study

Test learning results (Learn same content)



E History book

50min

50%

OPEN THE GATE

THE CITY GATE OPENS, WELCOME TO "XANADU" !



vimeo

60

SOME TIME AGO, THE HIS-TORICAL PUZZLE IN THE TREASURE HOUSE WAS STOLEN BY THIEVES. YOU ARE THE CHOSEN LITTLE HERO. GET READY TO OPEN THE GATE OF TIME TO RE-TRIEVE THE HISTORICAL FRAGMENTS THAT YOU ARE LOOKING AT!

https://vimeo.com/662604883

1 JOIN JOI

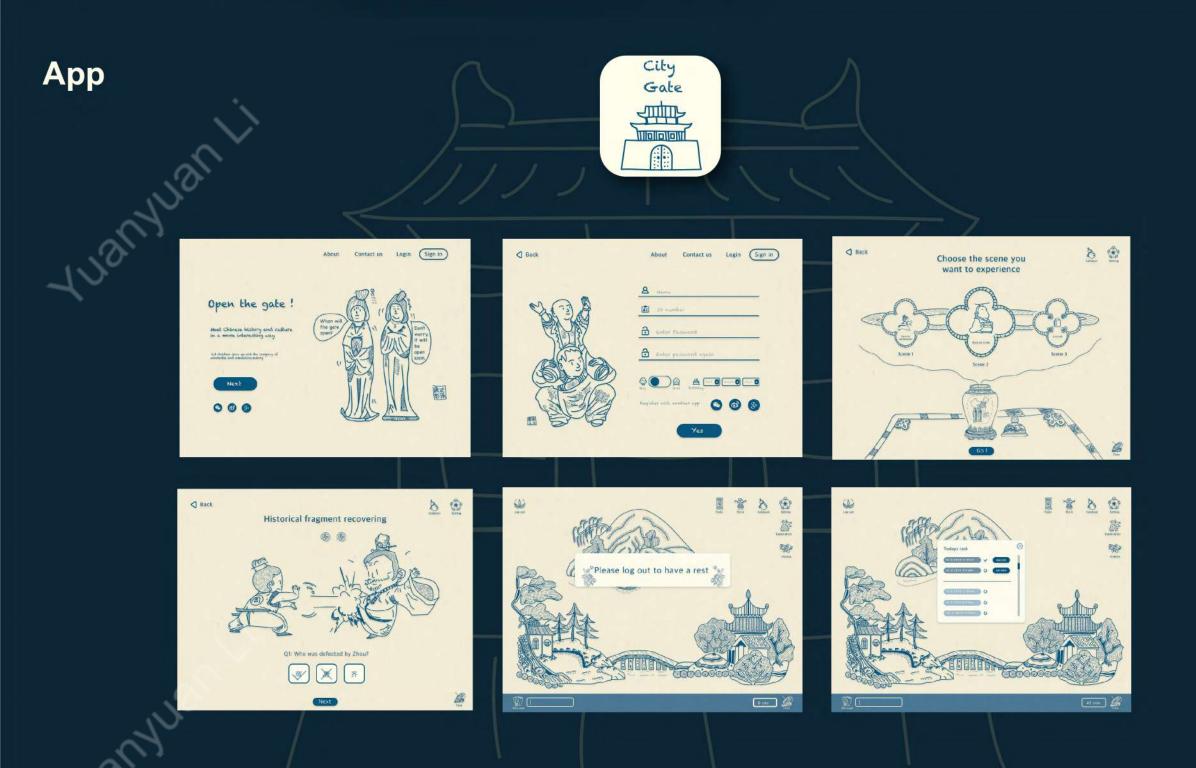


Indoor Courtyardhouse of Beijing

After the user scans the picture in the book, the 3D appearance of the courtyard will be displayed on the mobile phone

With historical check-in passports and other accessory products, children are encouraged to experience Chinese history and culture in the ancient city of Beijing

2021 Joined the compilation of the series of " Grandpa Tells Children about Beijing" by Hanhan professor

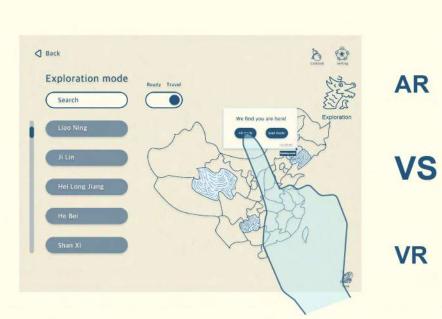


Outdoor AR function

AR technology will be improved in the future:

1. Smart devices will be equipped with more powerful chips and processors

2. The arrival of 5G Era





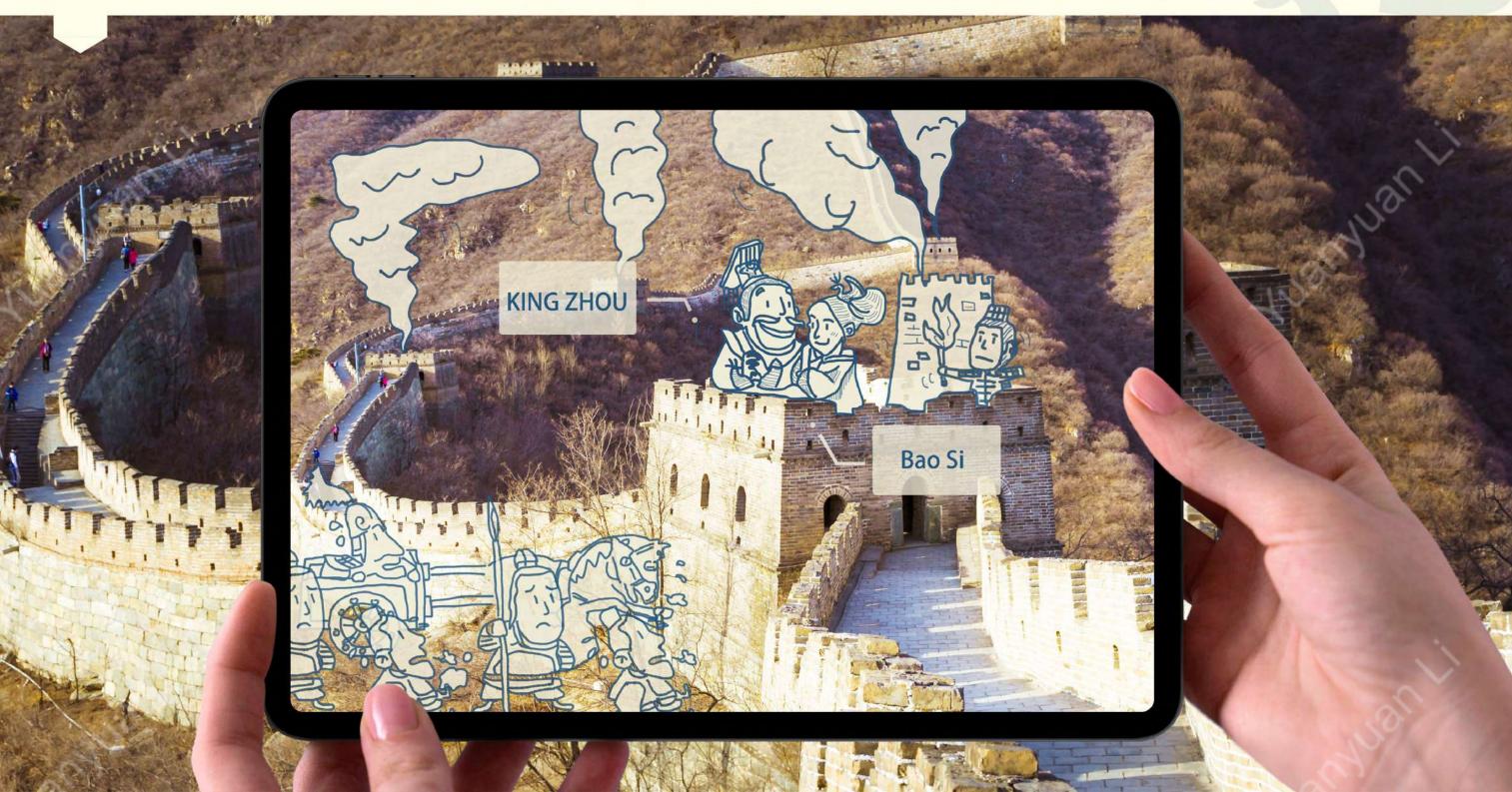
AR function can only be used at designated places



Lying in bed can also immerse in VR world

2.Encourage parents to take their children out to explore history, instead of giving them VR glasses directly

Better to use during the epidemic



1. Encourage people to go out of their homes and feel the real world

Cooperate with government cultural and tourism departments