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ETHNIC MUSICAL INSTRUMENT EDUCATION SOFTWARE



C-EASY INTERACTIVE TV APPLICATION



AN APP FOR MATCHING OUTFITS



SELF-SERVICE TRAVEL MOBILE NAVIGATION APP

instrument ETHNIC MUSICAL INSTRUMENT EDUCATION SOFTWARE



PROJECT SUMMARY

This is an educational music software designed for children aged 3-7, categorized as an enlightenment and intelligence development tool for children. It focuses on learning about the structure, timbre, and famous pieces of Chinese traditional instruments. Through personalized game-based learning methods, it enhances children's musical sense, strengthens their memory, promotes intellectual development, and satisfies learners' emotional needs beyond acquiring knowledge.

ROAL:

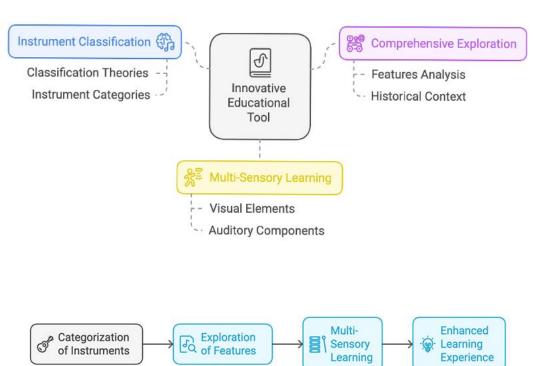
- · Research and Analysis
- Game Design
- UX Design
- Ul Design
- Music Design



RESEARCH AND ANALYSIS

Enhancing Music Education







UX/UI DESIGN

Target Audience: Children aged 3-7

Interface Design:

From a psychological perspective, interface design primarily involves two levels: sensory (visual, tactile, auditory) and emotional. From the perspective of product design and development, interface design should adhere to three key principles: user-controlled interfaces, reducing the user's memory load, and maintaining interface consistency.

Interface Design

User-Friendly Interaction

Simplified interactions

Diverse Styles Feedback that enhance user satisfaction. Use of varied forms and Providing users with clear and helpful colors to enhance visual appeal. responses. Flexible Intuitive Elements

Interface components

that are easy to

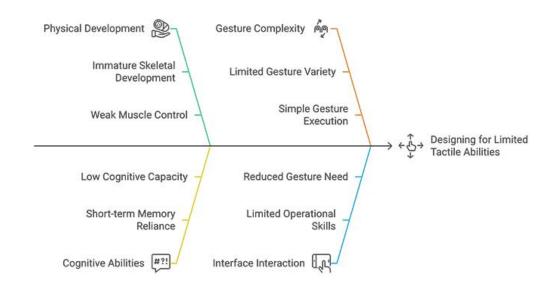
understand and use.

Architecture An adaptable and open

interface structure.

Effective

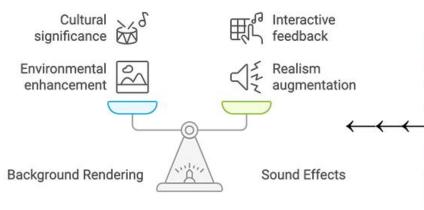
Challenges in Tactile Design for Young Children



手势名	手势图	Apple iPhone	Microsoft windows 7	Gestureworks
单击手 势	200	模拟联标单击	停住列表框	模拟鼠标单击
拖动手 势	-3	移动对象、视角	模拟鼠标拖拽	移动对象
滑过手 势	35	快速缩放或者 翻页	移动内容对象	快速移动对象 或翻页
担手势	30	缩小对象、关闭 程序(ipad)	缩小对象	缩小对象
仰展手 势	<u>6</u> 9	放大对象	放大对象	放大对象
按住手 势	3	模拟鼠标右键	模拟鼠标右键	模拟鼠标右键
三指挤 压手势	⊕ ©		缩小或者关闭程序	
两指单 击手势	3		缩放或者返回到默认大 小及超链接	打开文件
双击手 势	6.	用于放大剂片 或者打开文件	对象缩放或者打开文件 和文件夹	打开文件
按住井 单击手 勢	3	模拟鼠标右键的功能	模拟鼠标右键的功能	模拟鼠标右键 的功能
按住并 拖动手 势	8-db	缩放对象	定点转动	移动滑块。
旋转平势	<u>~</u>	旋转对象	图片或者对象旋转	选择对象



MUSIC DESIGN



Balancing Atmospheric and Interactive Sound Design

The Role of Sound:

Background rendering and event prompts not only enhance the atmosphere but also provide auditory feedback for information. Through sound, learners can receive implicit cues about the correctness or errors in their operations, allowing their actions to be promptly affirmed or corrected

The Function of Sound:

Sound is categorized into sound effects and music. Sound effects enhance the realism and atmosphere of the interface by augmenting visual information with auditory elements. Music amplifies the emotions conveyed by the visuals, providing learners with an immersive and engaging experience.

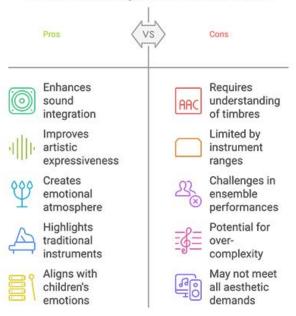
Challenge

The music education software for Chinese traditional instruments needs to cover ten types of instruments: guzheng, dizi, erhu, pipa, suona, yangqin, hulusi, matouqin, and sheng. However, Chinese traditional instruments have strong individual characteristics, and ethnic ensembles often lack breadth in sound expression, particularly in the low frequencies, leading to poor overall sound integration. Due to the limitations of the instruments' ranges and playing techniques, it is often challenging to meet listeners' aesthetic demands in various aspects during ensemble performances.

Solution

The background music composition utilizes the new folk music arrangement approach, combining ethnic instrumental music, MIDI music, and electronic band elements with modern orchestration techniques. This method allows for complementing strengths and addressing weaknesses, enhancing the musical personality of traditional instruments and significantly improving the artistic expressiveness of ethnic music. Thus, the five original pieces of music integrate traditional instruments, musical styles, rhythms, and Western music influences.

New folk music arrangement in education software



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PROTOTYPE PRESENTATION



Interface 1-- loading animation

Game levels include:

- Single instrument puzzle
- Instrument matching
- Real instrument matching
- Identify the instrument by listening to famous tunes
- Instrument and sound match-3
 game



Interface 2 - Main Interface

Click the button to enter the level interface.



First Learning Level - Instrument Puzzle.

Select the First Level Enter the Instrument Puzzle interface, which contains a total of ten different instruments. Tap on any instrument to proceed to the next screen.



Third Learning Level – Matching Real Instruments with Chibi-Style Instruments

The real instrument appears for three seconds and then disappears. A chibi-style version of the instrument then appears, and you must select the matching instrument. Once you choose correctly, the level is cleared. The original background music "Joyful Choice" loops during this stage.



Interface 3 - Level Interface

There are 5 levels in total. Swipe left or right to choose a level.



Single Instrument Puzzle Interface

Drag the instrument pieces from the left to the corresponding shadow area on the right. The background music plays a famous piece corresponding to that particular instrument. After you finish puzzles for all ten instruments, the level is complete.



Fourth Learning Level – Identify the Instrument by Listening to Famous Music Excerpts

The music player in the bottom-right corner can randomly play ten different famous instrument piece excerpts. Listen to each excerpt and select the correct instrument. Once you make the correct choice, the instrument changes from a virtual image to a real one. After correctly identifying all ten instruments, the level is completed.



Interfaces 1, 2, and 3 will loop the original background music titled "Joyful Journey."



Second Learning Level – Instrument Shape Matching

Enter the Instrument Shape Matching interface. Drag the chibi-style instrument icons to the corresponding shadow positions to match them. When matched correctly, the corresponding instrument sound effect will play. Upon entering the matching interface, the original background music "Joyful Match" will loop.



Fifth Learning Level – Instrument and Sound Matching

Because this stage involves pairing instruments with their sounds, no background music is provided to avoid interfering with the learner's auditory focus.





PROJECT SUMMARY

The mobile application "Beautiful stying" is a lifestyle service tool designed to meet users' needs for outfit coordination. It primarily includes eight main functional modules: User Information, Wardrobe, Styling, Recommendations, Store, Styling Guide, Rewards, and User Feedback. This app serves as a one-stop solution for fashion and style needs, ensuring users have a seamless and enjoyable experience in managing and enhancing their personal style.

TARGET AUDIENCE

- · Customers served by Fengdi Clothing Company.
- The company aims to leverage innovative technology to enhance user engagement, improve customer retention, and expand private domain traffic.

ROAL:

- · Research and Analysis
- · UX Designer



RESEARCH AND ANALYSIS

From life

The personal feelings of team members, there are many clothes, but still don't know what to wear, don't know how to match their own clothes

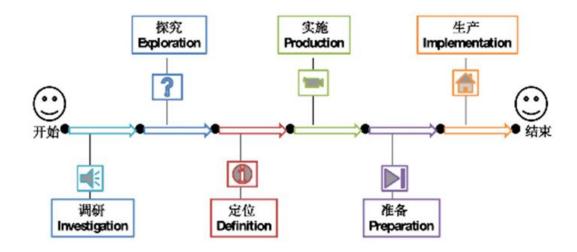
Friends around me don't know how to wear clothes with them, and they are eager to know how to match them.

From research

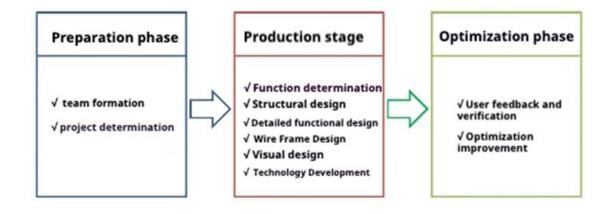
Research company customers, feedback does not know how to wear, such as someone to guide how to match clothes, will increase the desire to buy. We brainstormed a lot of ideas and finally thought that five of them were good. After that, we did user interest research on these five topics.

A total of 200 people were surveyed, with a male-to-female ratio of 47%:53%. The interest in five topics is as shown in the figure.



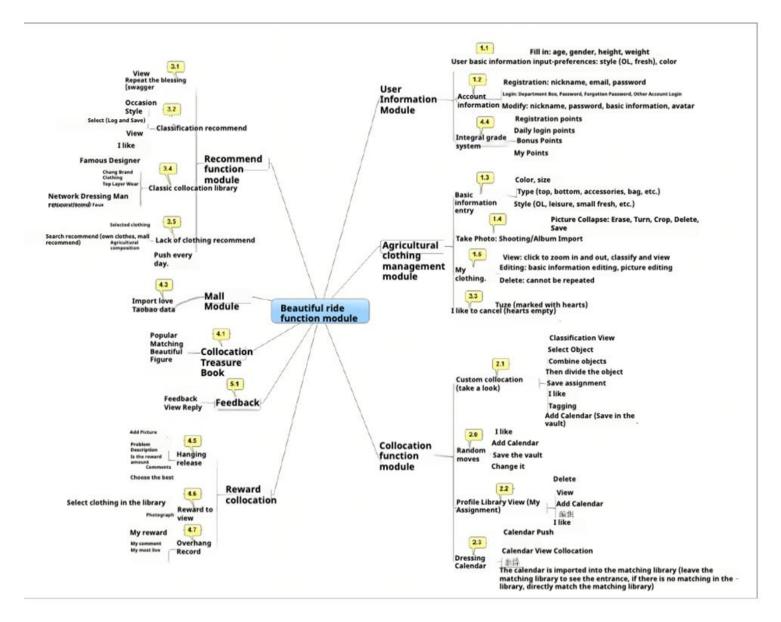


FLOWCHART





INFORMATION ARCHITECTURE



CORE OF THE PRODUCT

By analyzing user interests, item data, and behavior data, and combining this with research on clothing matching methods, the product establishes accurate recommendation rules based on key dimensions such as season, occasion, color, and style. When users are unsure how to match their outfits, product provides the most suitable outfit recommendations.

PRODUCT INNOVATION

Intelligent Recommendation (Core Feature)

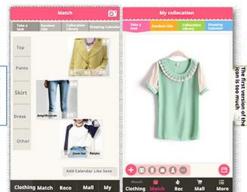
MAIN FEATURES (see the diagram on the left)

- · User Information
- Wardrobe
- · Outfit Matching
- · Recommendations
- Marketplace
- · Matching Guide
- Rewards
- User Feedback



The "Simplicity First" approach to user experience and interaction design:

- · Elimination: Replace text with icons.
- Organization and Concealment:
 Optimize the placement and categorization of user information.
- Delegation: Shift the input of occasion-related information from the user to the system.





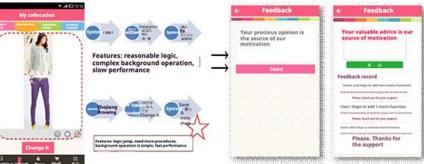


Elimination

Organization and Concealment

Delegation





Application of "Emotional" Design Methods in the Project

- instinctive Level:Stimulate users with visually appealing color tones that resonate with their preferences.
- Behavioral Level:Optimize the process of generating random outfit combinations to enhance software performance.
- Reflective Level: Design each feature with user feedback in mind, fostering an approachable and friendly brand image.

Optimization Phase

- Reflective User Feedback and Validation: Conduct user surveys on the launched version to gather insigh
- Reflective Refinement and Improvements:

Fix bugs and optimize existing features based on user feedback and data analysis.





User Information Module



Wardrobe Management Module



Outfit Matching Module



Recommendation Module



Matching Guide Module



Marketplace Module



Rewards



User Feedbaack Module



OUTCOMES

Enable virtual outfit matching, Analyzed post-launch user data and conducted usability test to refine the user flow resulting in a 25% increase in user retention after launching the optimized version. achieving 150% of the target for new user registrations post-launch.

C-EASY INTERACTIVE TV APPLICATION



PROJECT SUMMARY

A simple TV remote control can no longer meet the operational needs of smart TVs. People require more natural and convenient human-computer interaction methods, such as voice control, gesturedesigned, achieving three-screen integration (TV screen, PC, and mobile terminal) and three-networkintegration(telecommunicationnetwork, broadcast television network, and the Internet) within a social grid.

MAIN FEATURE

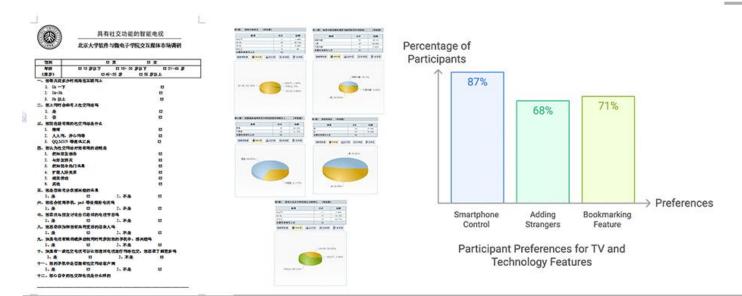
Its main feature is enabling bidirectional interaction while watching TV, with the core being that everyone watching the same program can participate in discussions remotely, enhancing the emotional value of the viewing experience.

ROLE

- · Research and Analysis
- UX Design

C-EASY

INTERACTIVE TV APPLICATION

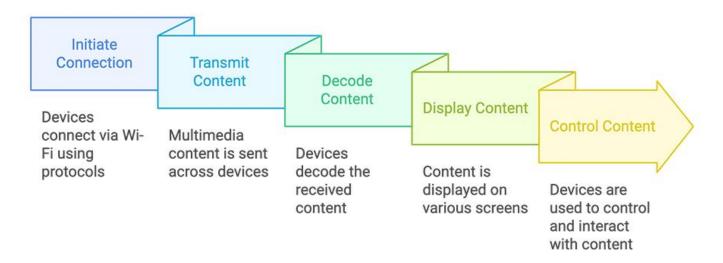


RESEARCH AND ANALYSIS

Based on the design of the interactive TV application software, a survey of 100 participants was conducted.87% showed strong interest in using their smartphones to control TV.68% were willing to add strangers with shared interests in TV and movies as friends.

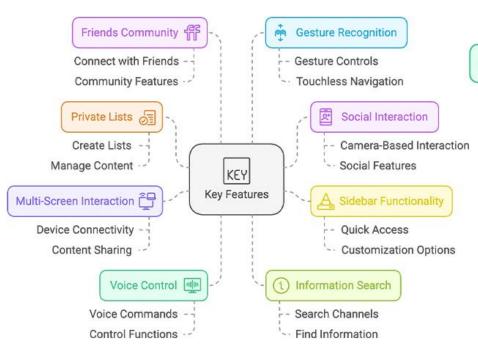
Therefore, when considering how TVs interact with users, we realized the interaction should not be limited to the TV as a medium. Instead, the medium can be expanded to include tablets, smartphones, and computer platforms.

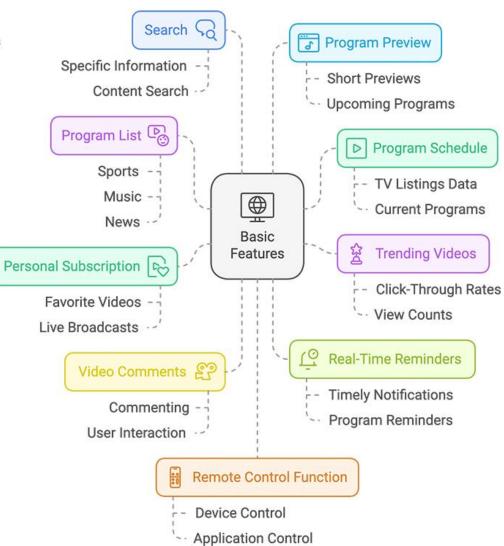
Multi-Screen Interaction Process



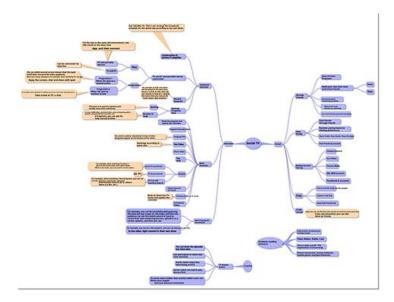
CORE FEATURES AND INNOVATIONS

- 10 Basic Features: Program Schedule, Trending Videos, Personal Subscriptions
 Program Categories, Video Comments, Real-Time Reminders
 Information Search, Program Preview, Remote Control Functionality, Social Features
- 8 Special Features: Create Personal Lists、 Camera-Based Social Interaction Sidebar、 Multi-Screen Interaction、 Voice Control、 Information Search Friend Community、 Gesture Recognition





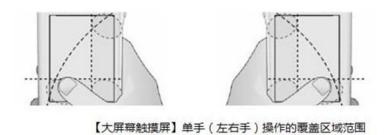
WIREFRAME



INFORMATION ARCHITECTURE



FINGER GESTURES

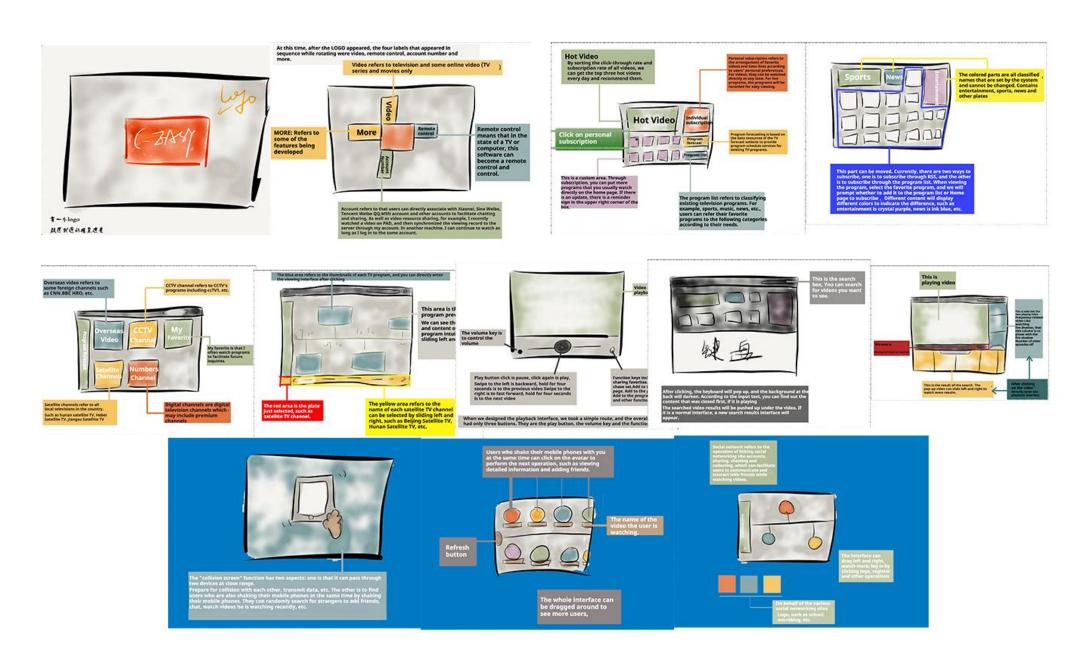


CAMERA-BASED GESTURES



C-EASY INTERACTIVE TV APPLICATION

SKETCH PROTOTYPE





PROTOTYPE



System Startup Screen



Homepage Cover



Program List



Program Schedule



Program Schedule



Search Interface



Search Results Interface



Right Side - Video Playback Control Buttons



Personal Customization



Account Login



Social Media Login



Shut Down

T-EASY

SELF-SERVICE TRAVELMOBILE NAVIGATION APP



T-EASY

PROJECT SUMMARY

"T-EASY" is a practical mobile application specially tailored for self-guided and self-driving travelers. The app is compatible with Android and iOS systems, featuring a fresh interface and simple operations. With just your phone, you can gain comprehensive and in-depth insights into the area you're in, including dining, entertainment, leisure accommodations, transportation, local specialties, industry information, and cultural attractions. Additionally, the app provides essential features like maps and guided navigation to enhance your travel experience.

ROLE

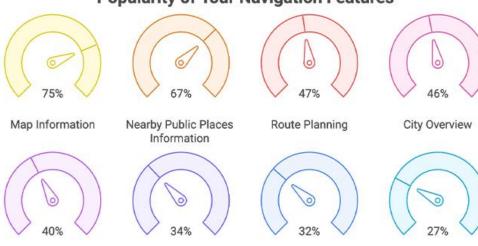
- Research and Analysis
- UX Design

SELF-SERVICE TRAVELMOBILE NAVIGATION APP

RESEARCH AND ANALYSIS

By analyzing the results of a hundred samples collected from different tourist attractions, we summarized the general opinionsof most travelers about travel applications, including the shortcomings of current travel software.

Popularity of Tour Navigation Features



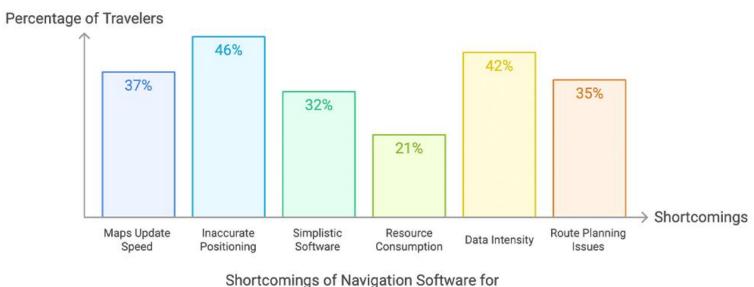
Voice Tour Guide

Sharing Travel

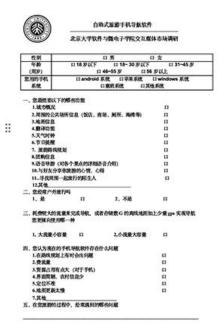
Experiences

Translation

Functionality



Self-Driving Travelers

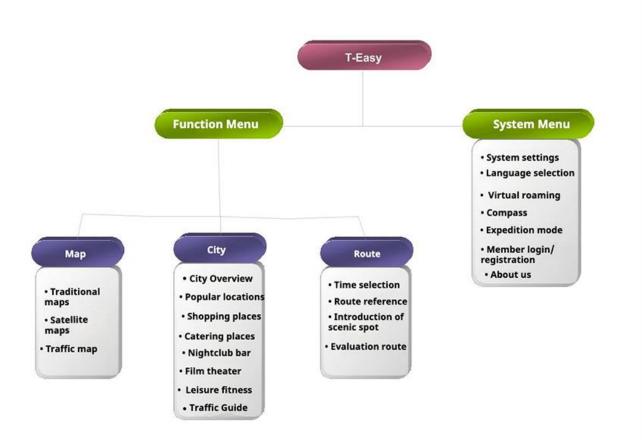


Weather Clock and

Group Purchase Information

T-EASY

SELF-SERVICE TRAVELMOBILE NAVIGATION APP



INFORMATION ARCHITECTURE

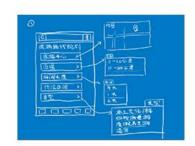
WIREFRAME

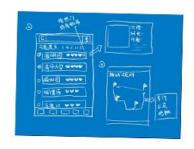














T-EASY

SELF-SERVICE TRAVELMOBILE NAVIGATION APP

STORYBOARD



















PROTOTYPE



Initial interface



Map interface



Map interface



Urban interface



Search interface



A place to shop



Dining place



Dining place



Route interface



Route interface



Compass function interface

THANK YOU