

Introduction

BACKGROUND

iReader is a TOP3 online reading platform in China where young adults can read novels and non-fiction books, with 2 billion active users per month. Reading and listening are core features for our users.

PROJECT SCOPE

Listening includes: **TTS(Text to Speech) with machine-generated voices**; audio books with authentic human voices. We want focus on TTS feature as it was outdated, 60% books contain TTS feature and company will purchase more TTS resources for books in the future. In order to bring TTS in contextual usage, we designed a new global player for TTS, unified the TTS and audio books' players, improved the TTS control page to support users multitasking without quitting TTS.

TIMELINE

Project was conceptualized in May 2021, implemented in June 2021, launched in July 2021 on Android and iOS September 2021. As a lead designer, I collaborated with the product manager, engineers.

Challenge

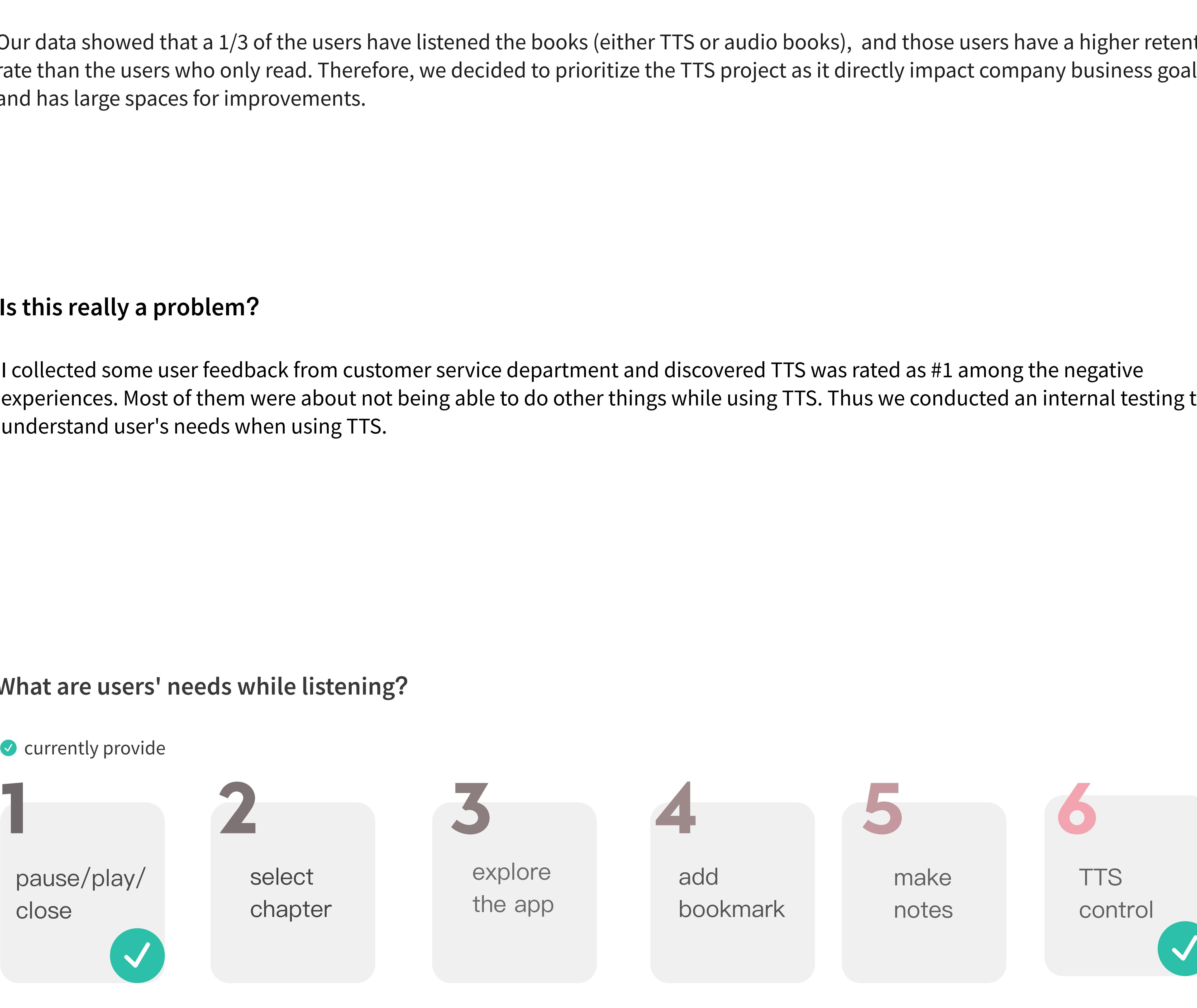
TTS does not support multitasking

PROBLEM

The feedback we received from our users was they could not perform various actions while using TTS and needed to constantly quit and restart. For example, adding bookmarks, choosing another chapter or opting to go back to the home page to browse other books.

"I wanted to add a bookmark for a page in my favorite chapter while using TTS, but I can not do that, I want to listen while reading, so that I can better control my progress" (feedback from our user Xinyu)

Users could not handle reading tasks while using TTS



Why improving TTS? Does it impact business goals?

Retention rate is the north star of our company, and our project goal was to improve the usage rate of TTS as well as the total time spent on TTS.

Our data showed that a 1/3 of the users have listened the books (either TTS or audio books), and those users have a higher retention rate than the users who only read. Therefore, we decided to prioritize the TTS project as it directly impact company business goals and has large spaces for improvements.

What are users' needs while listening?

✓ currently provide

- 1 pause/play/ close
- 2 select chapter
- 3 explore the app
- 4 add bookmark
- 5 make notes
- 6 TTS control

high needs

only 2% low need

Findings:

1. our data shows 98% users rarely adjust (most of users adjust the settings at the first time when using TTS) under TTS control.
2. user testing shows by tapping the screen, users intend to either quit TTS mode or change chapters/explore app/make notes.

Based on the data and the results of user testing, we concluded that allowing users to return to the previous page where they can change chapters, add bookmarks or explore app without quitting TTS are the actual needs.

DESIGN GOAL

Improve the TTS feature to help users fully control over their reading needs and exploring in the app

USER GOAL

Listening everywhere → business goal: improve the time spending

A yellow slide with text and arrows. On the left, the text "needs while using TTS" is displayed above a downward-pointing arrow. On the right, the text "Users' goal" is displayed above another downward-pointing arrow. The arrows point towards the bottom right corner of the slide.

make listening more efficient

change chapter

nsiderations:
audiobook player:

Add a new TTS provider

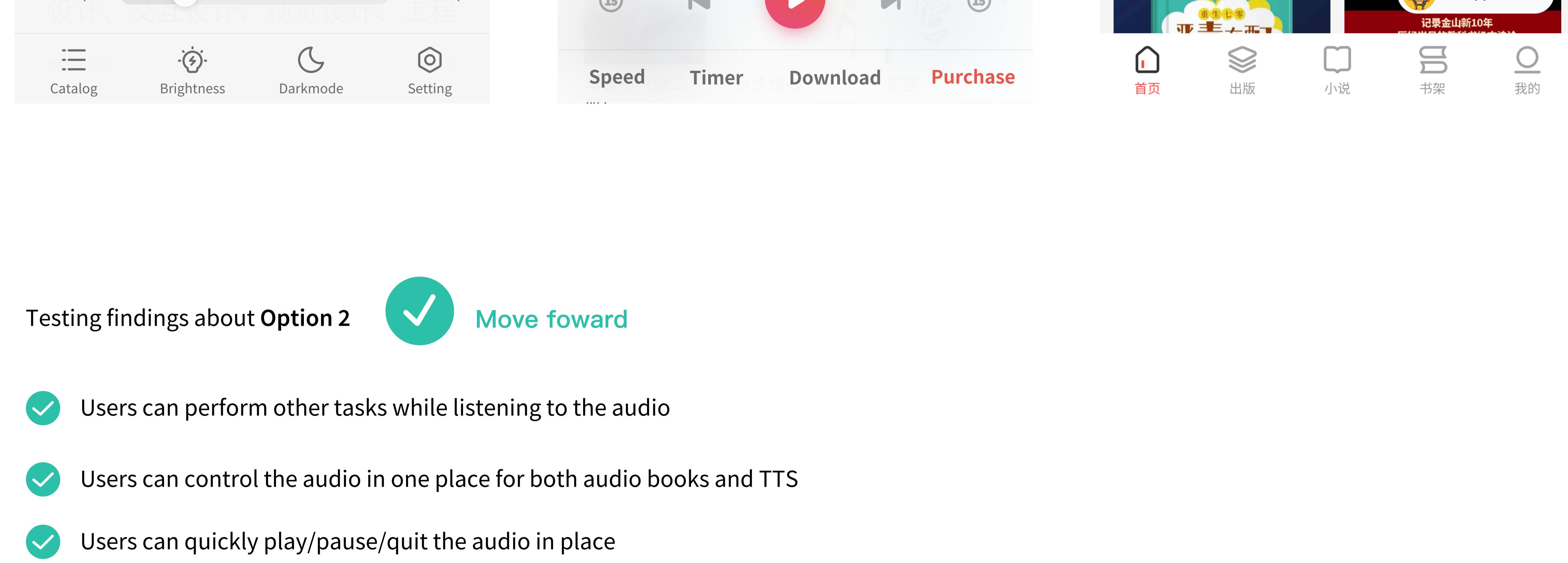
 12:30

Available for all pages

1) 用户研究：对于交互设计师，不具备基本的用户研究能力，无法吸收来自用户的「信息营养」如何做

the TTS and audiobook entry points have animation and users may feel overwhelmed
s need additional steps to control audios
s can perform other tasks while listening to the audio

具备基本的用户研究能力，无法吸收来自用户的「信息营养」如何做

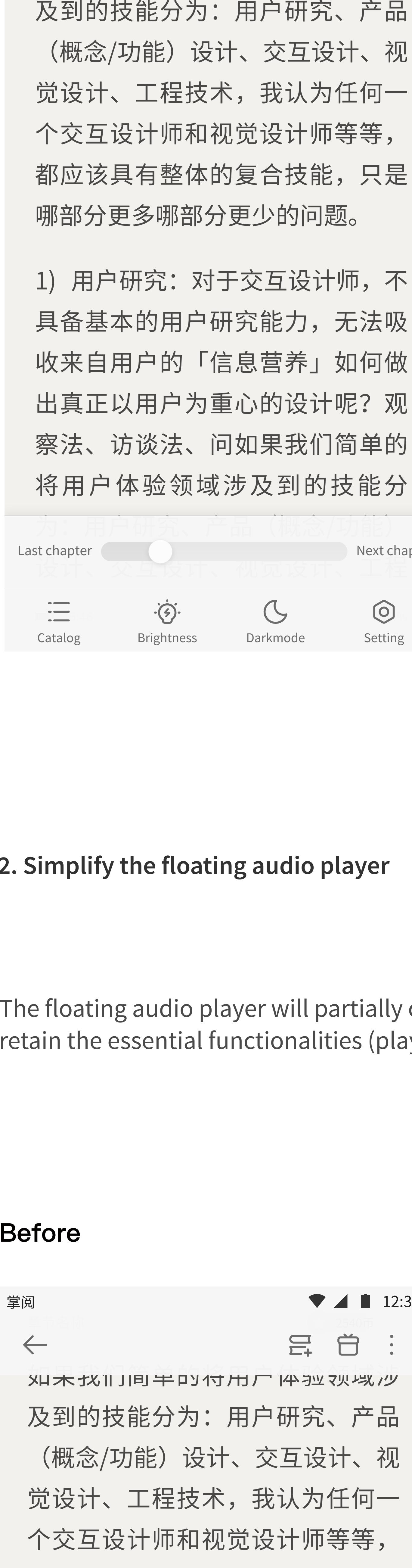


- ## Why Option 2?

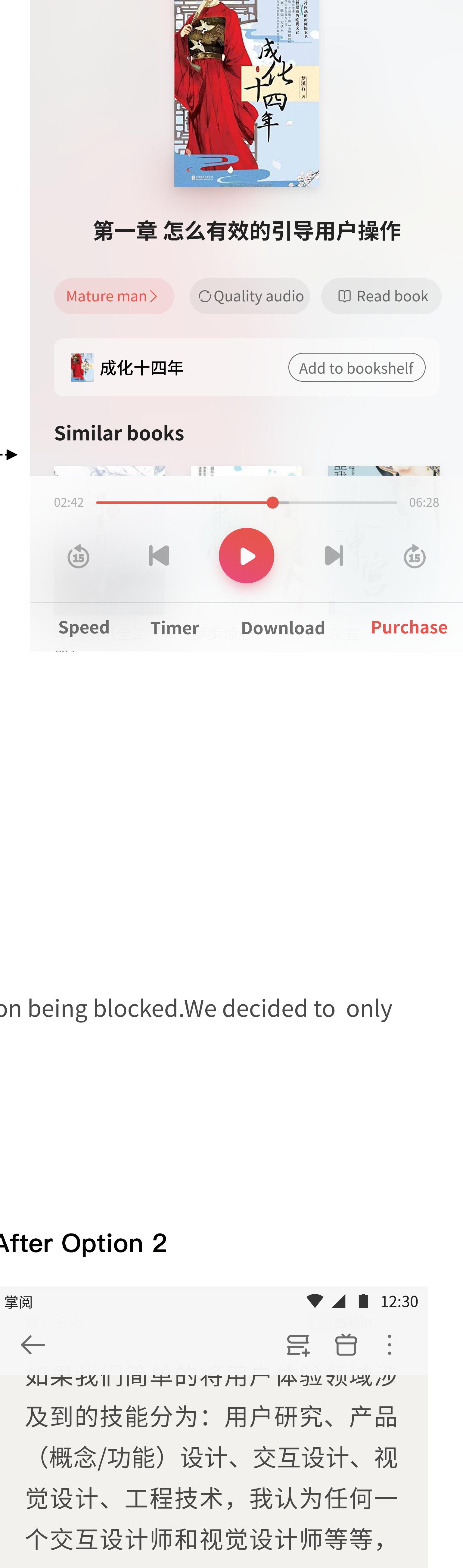
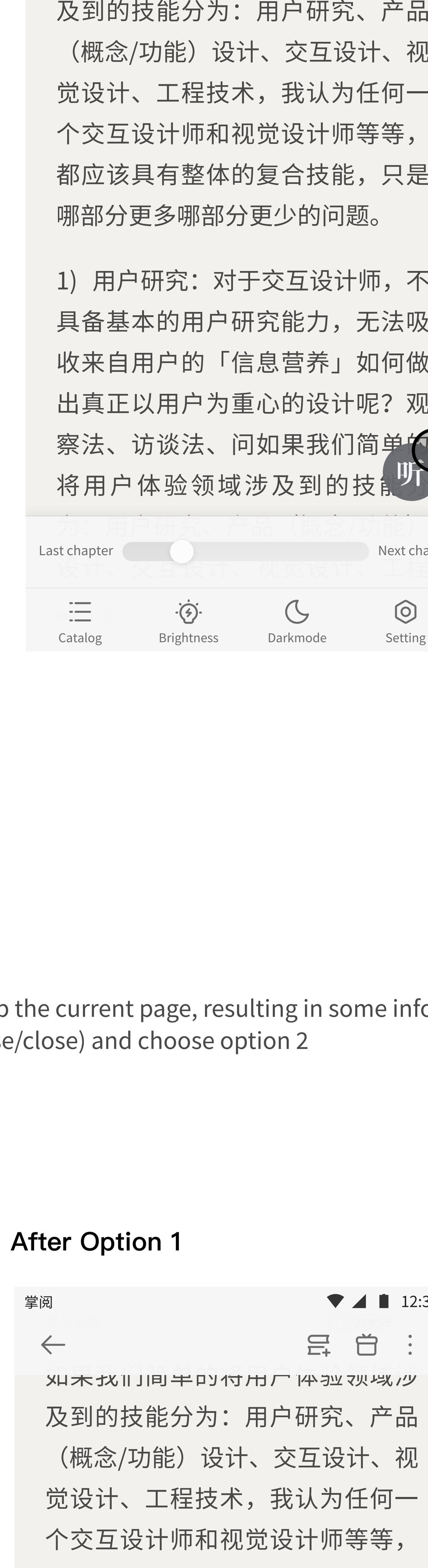
 - 1. Floating audio player naturally provides users with multitasking capabilities
 - 2. Unified UI representations can provide consistent experiences and reduce con
 - 3. Users can easily adjust their audios in current page

1. Enhance TTS entry point

Before



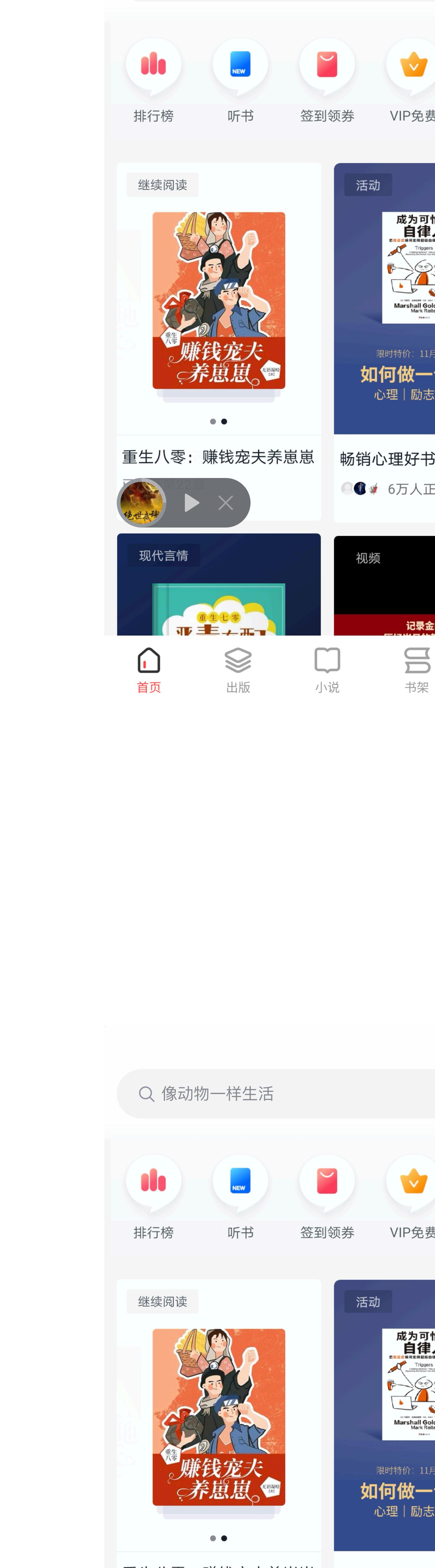
After



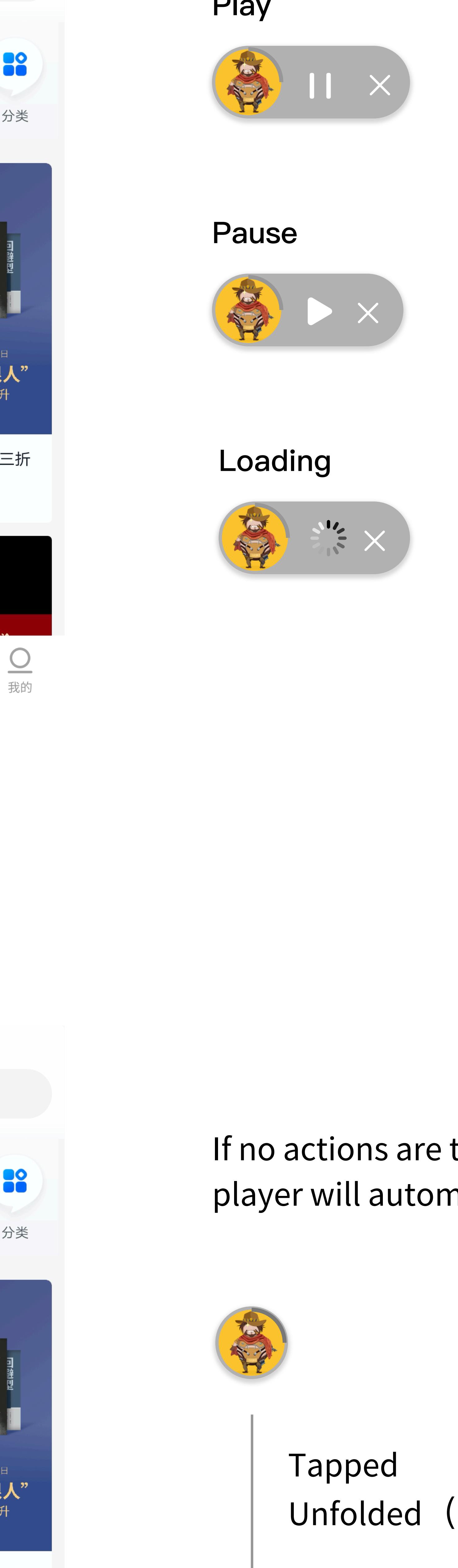
2. Simplify the floating audio player

The floating audio player will partially overlap the current page, resulting in some information being blocked. We decided to only retain the essential functionalities (play/pause/close) and choose option 2

Before



After Option 1

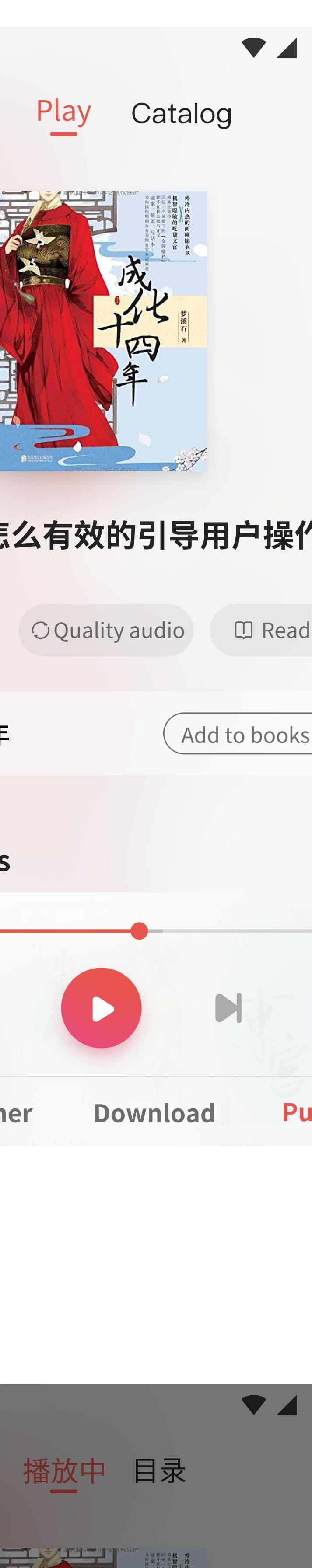
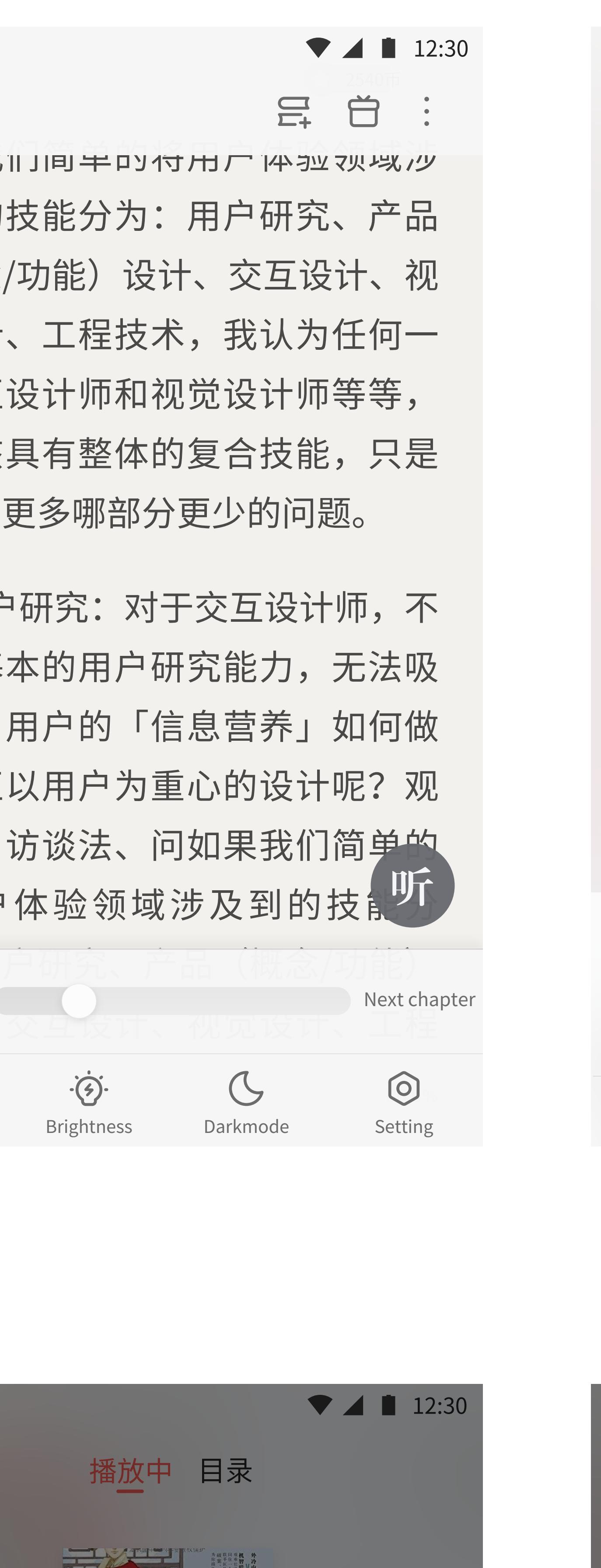


After Option 2

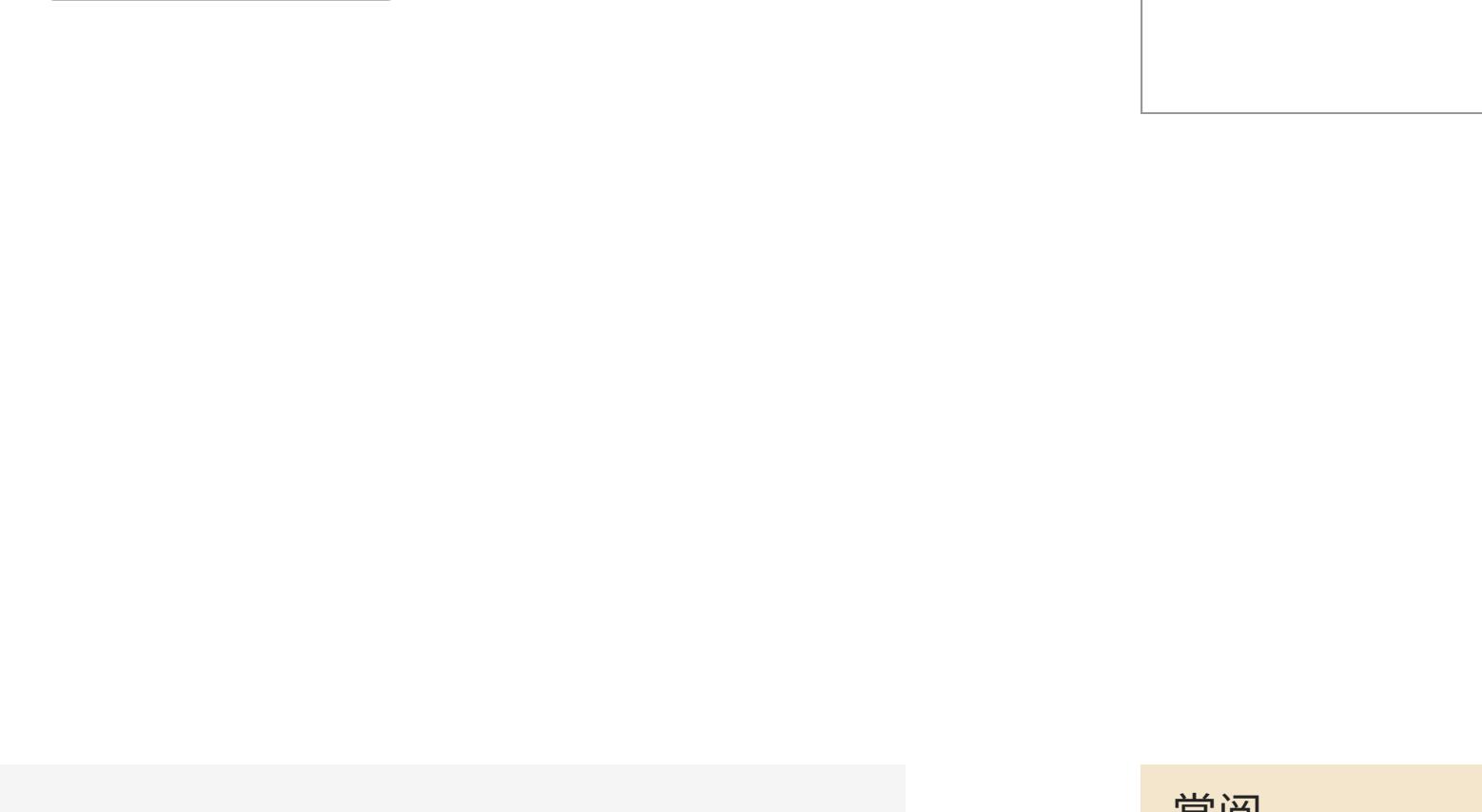


3. Define the status of audio player

Question: If we use global floating audio play control, would it be too eye-catching on the page?



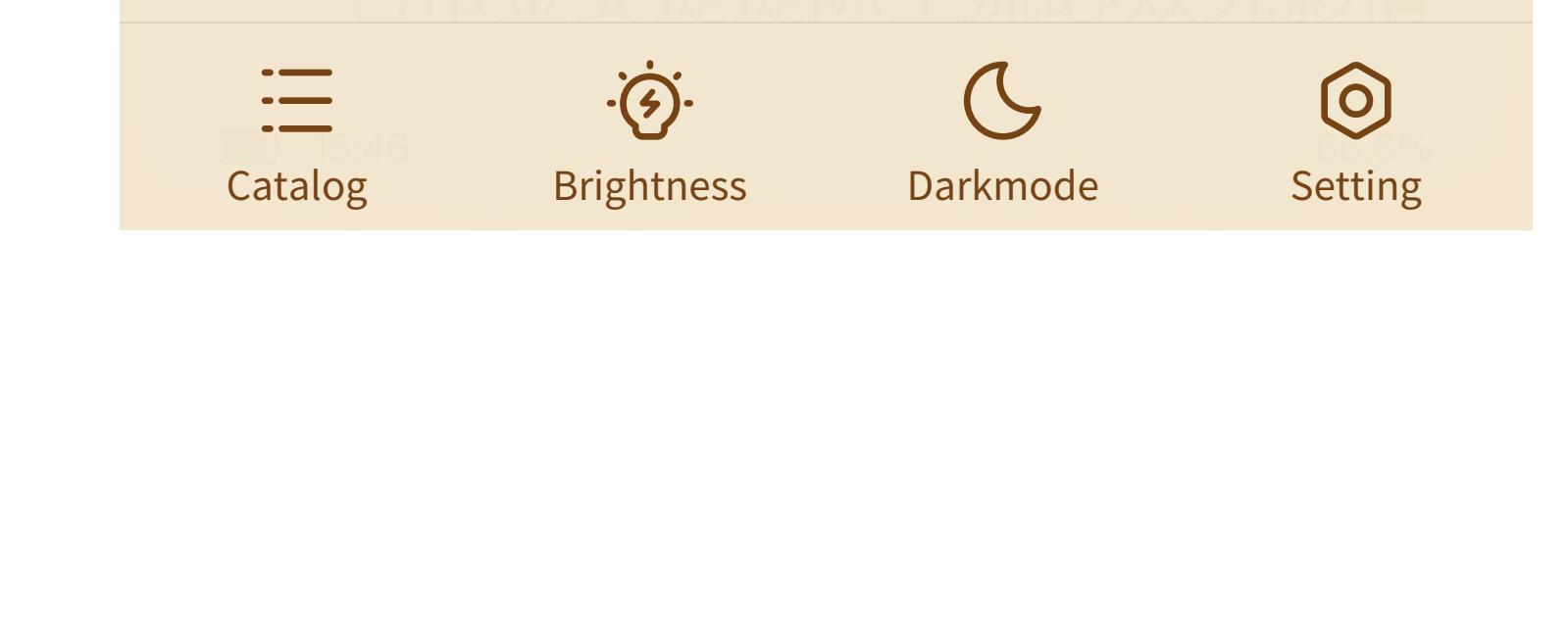
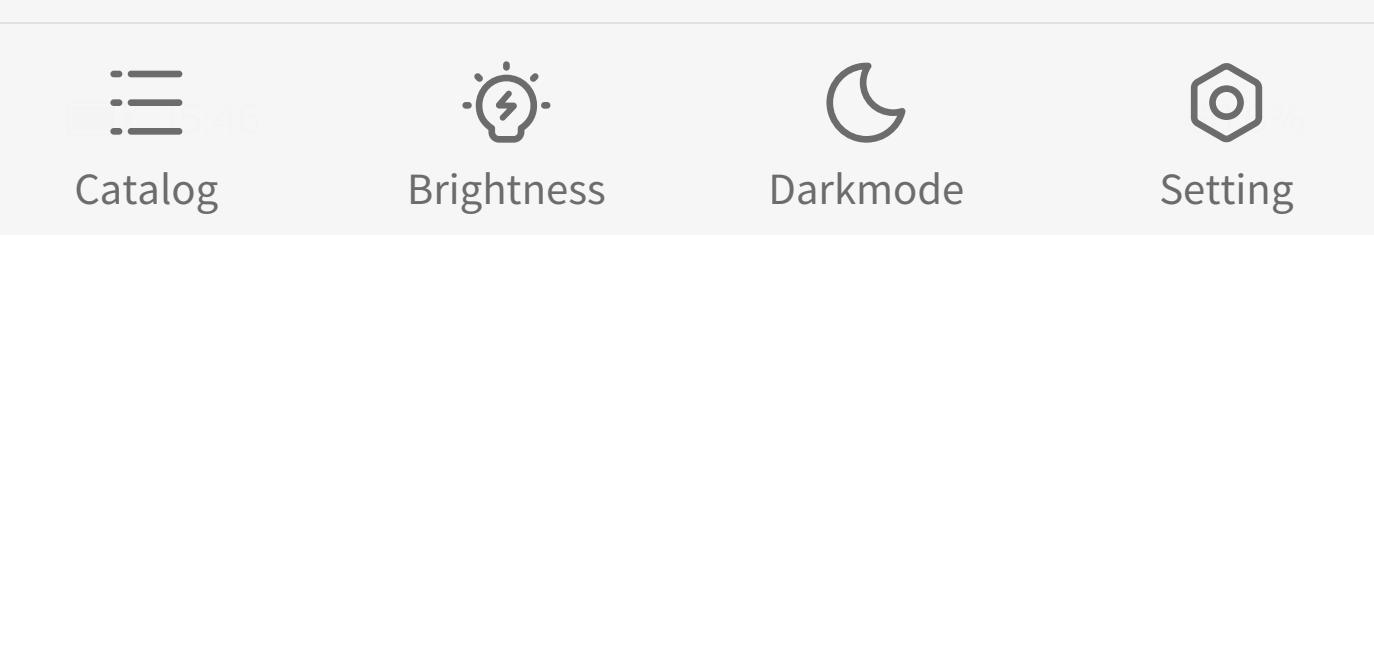
If no actions are taken within 5 seconds, the player will automatically hide several icons



Consider it as an add on value, we roll it over to the next development phase

Approach

FINAL MOCKUPS



protoype

User jounery after design improvement

"Wow! That's wonderful, i can exploring all the books and make some social connections without quitting TTS mode, so that I can listening everywhere and everytime!"

—Yu Gao

"This makes my listening experience more efficient so that i can better record while listening"

—Li Yang

Validation

SUCCESSFUL METRICS

We expected to see the following outcomes:

1. Users will spend more time on audio (TTS, audio books)
2. More people will use TTS feature

3. Users who used TTS outside of reader/Total TTS Users > 50%

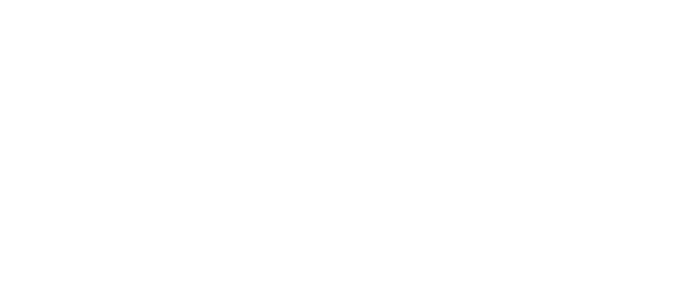
Result

IMPACT

Usage rate of TTS



Time spending of TTS



Time spending of the whole audio mode



Reflection

FUTURE PLAN

Even though the new TTS had positive results, there is room for improvement based on user feedback:

make the floating audio player draggable and foldable

WHAT I LEARNED

Consistent design can help user better understanding