A Japanese-English vocabulary library application

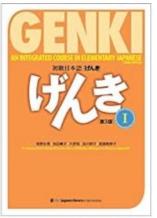
SUN, YUMING (sun.yumi@northeastern.edu)

LIAO, TIANZHI (liao.tian@northeastern.edu)

Introduction



371 grams, A4 size



STAR SORP AND ADDRESS.

Workbook Textbook



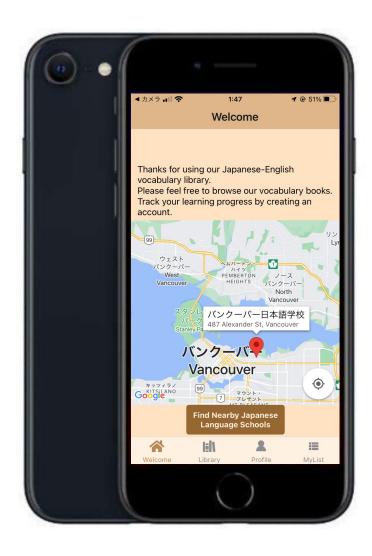
979 grams, A4 size

789 grams, A4 size



144 grams

Introduction

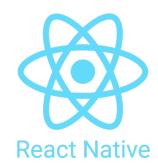


Everyone can browse the word book

Users can create their own word lists

Find the nearest Japanese language school to learn Japanese

TECHNOLOGY STACK

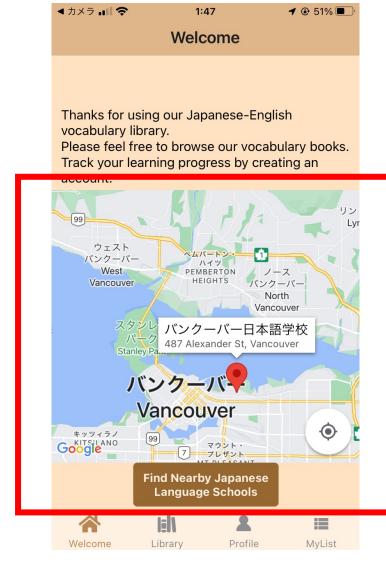


REACT-NATIVEFRONT-END PLATFORM



FIREBASE

BACK-END PLATFORM FIRESTORE DATABASE, AUTHENTICATION, STORAGE



Use Google Maps API Find language school based on user's location



Use pronunciation API
Play Japanese
pronunciation of word

Database collection Hierarchical Data

Collection library

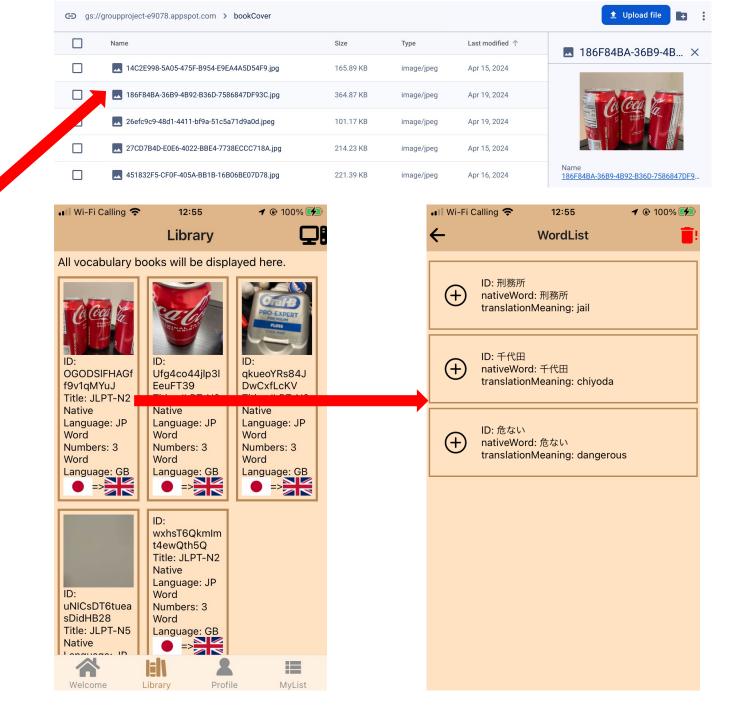
```
document id:OGODSIFHAGff9v1qMYuJ
imageUri:"bookCover/186....jpg"(string)
nativeLanguage:"JP"(string)
number:"3"(string)
title:"JLPT-N2"(string)
translationLanguage:"GB"(string)

Collection wordlist
document id: "刑務所"
nativeWord:"刑務所"(string)
```

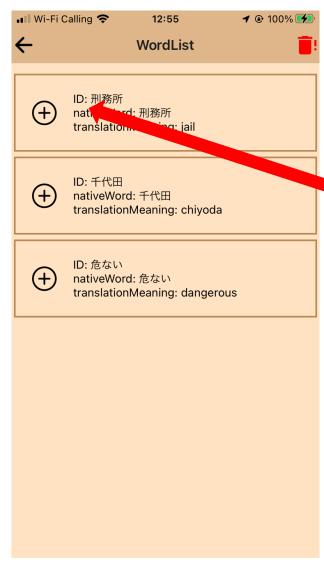
translationMeaning:"jail"(string)

.

.



CRUD OPERATIONS C Add Word to User's List



Collection users

document id: 1hSjn6451sR1RYieo18sBnMPvo12 email: "2ww2w@qq.com"(string)

imageUri:"profileImages/9.jpg"(string)

isAdmin:false(boolean)

nickname: "45678" (string)

Collection wordlist

document id: "刑務所" nativeWord:"刑務所"(string) nativeWordShow:true(boolean)

remember:false(boolean)

translationMeaning:"jail"(string)

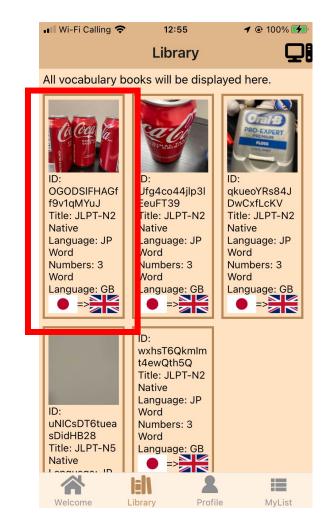
translationMeaningShow:false(boolean)



DEMO

Challenging-Delete





Collection library

Delete document in the library secondly

document id:OGODSIFHAGff9v1qMYuJ imageUri:"bookCover/186....jpg"(string) nativeLanguage:"JP"(string) number:"3"(string) title:"JLPT-N2"(string) translationLanguage:"GB"(string)

Collection wordlist

Delete all document in wordlist firstly

document id: "刑務所" nativeWord:"刑務所"(string) translationMeaning:"jail"(string)

.

.

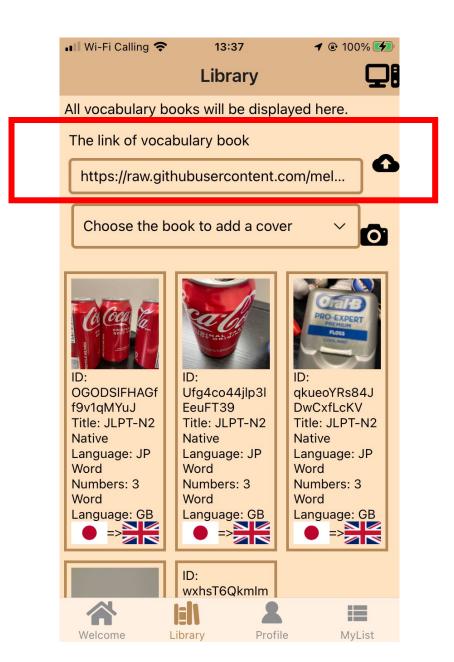
Future

Universal and expandable dictionary format

```
"title": "JLPT-N2",
                      "nativeLanguage": "JP",
                      "number": "3",
                      "translationLanguage": "GB",
                      "wordlist": {
                         "危ない": {"nativeWord":"危ない
Multilingual support
                         ","translationMeaning":"dangerous" },
                         "刑務所": {"nativeWord":"刑務所
                         ","translationMeaning":"jail" },
                         "千代田":{"nativeWord":"千代田
                         ","translationMeaning":"chiyoda" }
```

Future

More ways to add vocabulary book



Thanks

A Japanese-English vocabulary library application

Thanks

Database collection Hierarchical Data

Collection Library

document id:OGODSlFHAGff9v1qMYuJ imageUri:"bookCover/186....jpg"(string)

nativeLanguage:"JP"(string)

number:"3"(string)

title:"JLPT-N2"(string)

translationLanguage: "GB"(string)

Collection wordlist

document id: "刑務所"

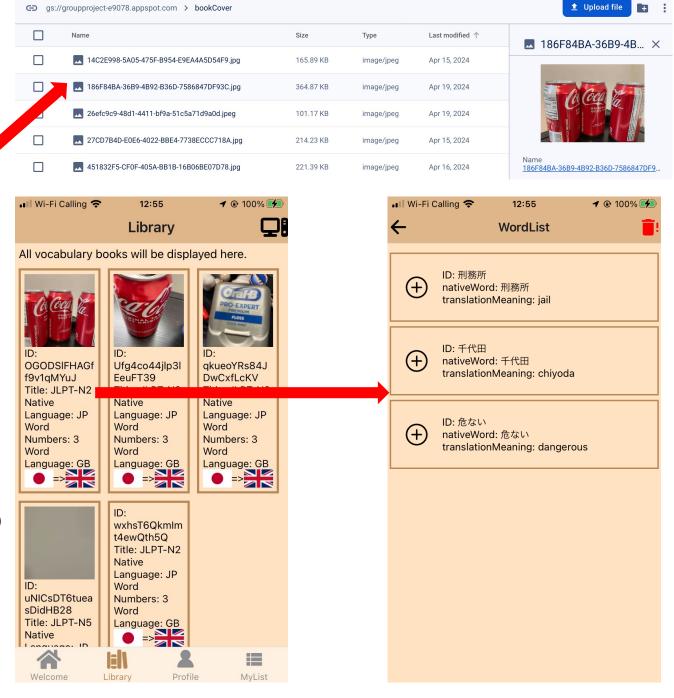
nativeWord:"刑務所"(string)

nativeWordShow:true(boolean)

remember:false(boolean)

translationMeaning:"jail"(string)

translationMeaningShow:false(boolean)



NO Authentication

- View the welcome screen
 - Use location function
- View the library screen
 - Look inside the vocabulary book
- View the profile screen
 - Login/Sign-up

Authentication, NO ADMIN Authorization

- View the mylist screen
- View the library screen
 - Look inside the vocabulary book
 - Add words from the wordlist
- View the mylist screen
 - Use local notification function
- View the profile screen
 - Loaded the correct information
 - Use camera function
- View the mylist screen
 - Change remember/forget function
 - Filter the remembered/ forgotten word
 - Delete words
- View the profile screen
 - Logout

Authentication, ADMIN Authorization

- View the mylist screen
- View the library screen
 - Open the admin terminal
 - Load a book
 - Use camera function to add a cover
 - Use camera function to change a cover
 - Look inside the vocabulary book
 - Delete this book
- View the mylist screen
 - Select review function
 - Play the sound
- View the profile screen
 - Logout

NON Authentication