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1. Requirements analysis

Requirements

Action	Description
Login	Users must be able to log in to access personalized features and retain their preferences.
Register	Allows new users to create an account to personalize and save their preferences.
Set Customer Info	Users can set and update personal details like name, interests, and password for a tailored app experience.
View Map	Display a map showing store locations, facilitating easy navigation to stores of interest.
View Hunted List	Provide a list or collection of items the user has interacted with or saved, known as "hunted" items.
View Store	Enable users to view detailed information about stores, including items available, through the app.
Feedback	Collect user feedback on items and notifications to improve the recommendation algorithm and app functionality.

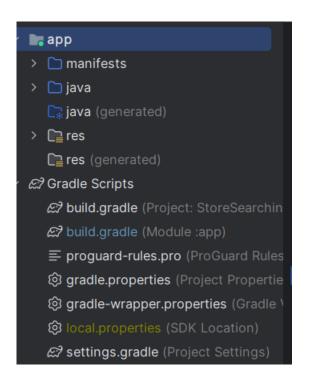
2. System architecture

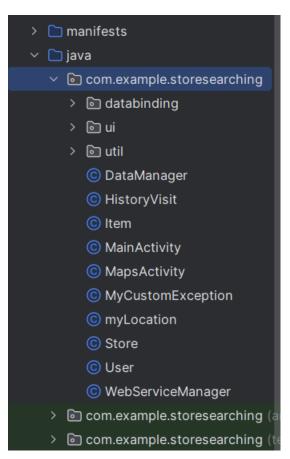
Interface Specification

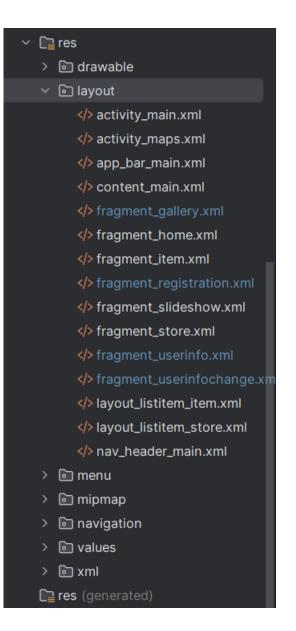
frontend-database

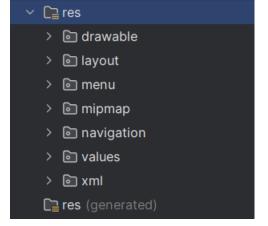
```
Interface 1
            frontend::Login ==> database::Login
Interface 2 frontend::Location ==> database::Location
Interface 3 frontend::Store ==> database::Store
Interface 4 frontend::HuntedStore ==> database::HuntedStore
Interface 5 frontend::HuntedStore==>database::HuntedStore
Interface 6 frontend::Item ==> database:Item
Interface 7 frontend::Map ==> database::Map
Interface 8 frontend::Feedback2Store ==> database::Feedback2Store
Interface 9 frontend::Feedback2Item ==> database::Feedback2Item
Interface 10 frontend::Customer ==> database:: Customer
Interface 11 frontend:: Customer==>database::Customer
Interface 12 frontend::Registration ==> database::Registration
```

3. Code



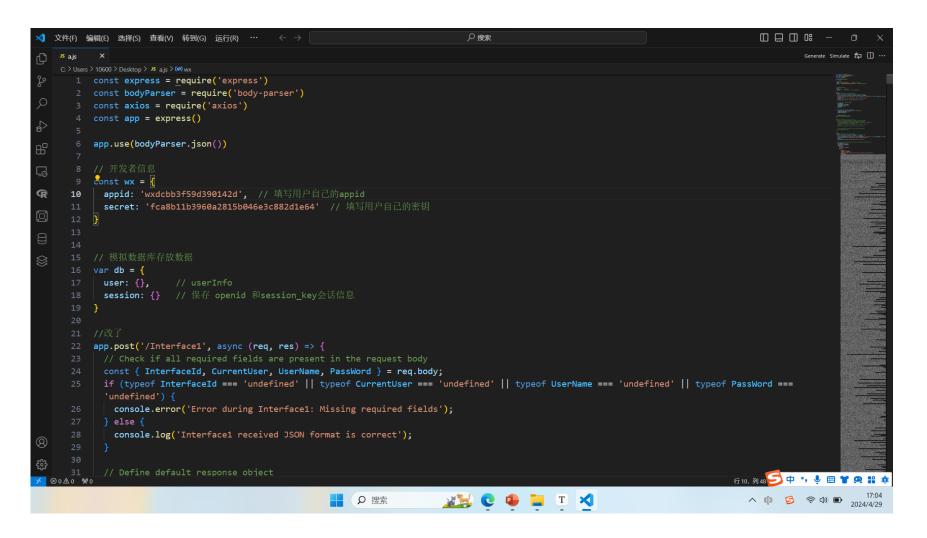






4. Test

mock server



4. Test

	input
2.Android user registration	output
success:	20 Foodback to Itam
input	29.Feedback to Item
output	input
fail: input	•
output	output
5.Android user login	30.Feedback to Store
Success:	3011 CCaback to Store
input	input
output Fail:	output
input	output
output	33.Android search for items
8.Modify Android user info	immust
Success:	input
input output	output
Fail:	•
input	34.Android search for merchants
output 22.Android recommend merchants	input
input	•
output	output
24.Android update Hunted List	36.Android map interface
	input
rt of the test sample	output

26.Android display Hunted List

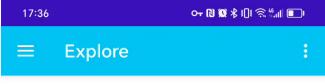
pa

Registration









Search For Stores

SWITCH

Q

Number1: TechGear

VISITSTORE

3.9155921136682763km

Description: Your go-to place for the latest technology and gadgets.

Number2: SportyLife

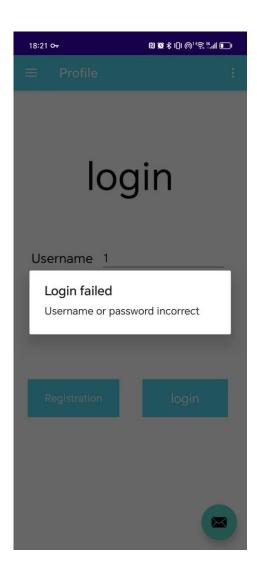
VISITSTORE

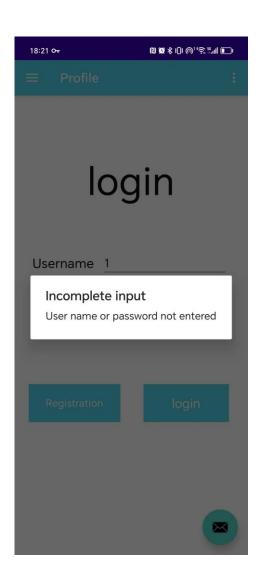
Description:Everyt 1.9000976220812964km hing you need for a sporty lifestyle.

125.266781 43.815317



Login





login

Username

Password _____

Registration login

125.2668125 43.81517271

 $\geq <$

login

Username

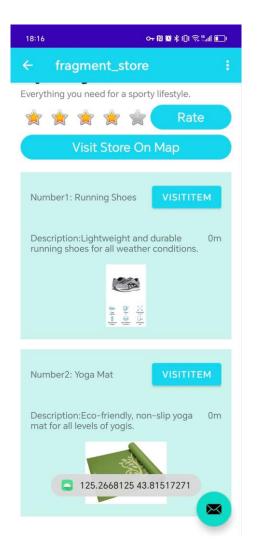
Password _____

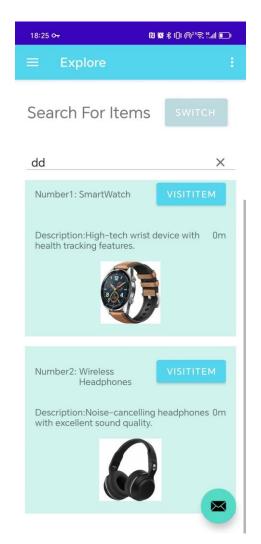
Registration

login

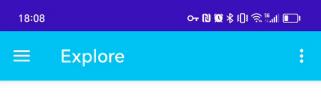


Explore Stores









Search For Stores



125.2668 43.815348







Hunting Stores

SWITCH



Number2: SportyLife

VISITSTORE

Description:Everyt hing you need for a sporty lifestyle.

1.904273847905201km

Number3: HomeEssentials

VISITSTORE

Description:Essent 0.9993949704980447km ial appliances and home goods for everyday life.

Number5: ReadCorner

VISITSTORE

Description:Dive 1.46056126365367 into the world of









5. Future

(1) Integration Testing



Currently the front end does not interact with a real database but with a mock server.

5. Future

(2) Improve interface documentation

Interface 2 frontend::Location ==> database::Location

```
"InterfaceId":{
    "type":"integer",
    "minimum": 1,
    "maximum": 33
"CurrentUser": {
   "type": "string",
    "minLength": 1
"CurrentLocation": {
    "type": "object::Location",
    "properties": "Illustrated in appendix"
```

• Description of the interface: When the user needs data related to location information, such as viewing a map, they need to provide the CurrentLocation to the database.

5. Future

(3) Improve the function

The display Huntedlist function is **not fully implemented** and will be further improved in the next stage.

