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*Select the fund management function ---> Show balance ---> Top-up ---> Successful top-up, current balance displayed ---> Withdrawal ---> Successful withdrawal, current balance displayed ..... **错误!未定义书签。***

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Individual user testing

Start the program ---> Select "Personal User" status ---> Register ---> Registration successful

Hello, What is your role?
[1] Personal User
[2] Merchant User
[3] System User
[4] Exit
1
Would you like to log in or register?
[1] Login
[2] Register
[3] Exit
2
Username:
18811110005
Password:
12345678
Registration successful
Personal User ID:0005 User Name:18811110005

Registration (username already registered) --> Registration failed

Would you like to log in or register?
[1] Login
[2] Register
[3] Exit
2
Username:
18811110001
Password:
123456
The username already exists.
Registration failed

Login --->Login successful

Would you like to log in or register?
[1] Login
[2] Register
[3] Exit
1

Username:

18811110002

Password:

123456

Login successful

Personal User ID:0002 User Name:18811110002

Login (wrong password) ---> Login failed

Would you like to log in or register?

[1] Login

[2] Register

[3] Exit

1

Username:

18811110001

Password:

234567

Password is wrong

Login failed

Login (login name does not exist) ---> Login failed

Would you like to log in or register?

[1] Login

[2] Register

[3] Exit

1

Username:

1881111003

Password:

123456

The username does not exist.

Login failed

Select Basic Functions ---> Set up basic user information ---> Set up successfully.

Would you like to do?

[1] Basic functions

[2] Points Management

[3] Integral conversion

[4] Points Trading

[5] Funds management

[6] Exit

1

Could not open . /Data/User/Info/001

1. setInfo

2. changeInfo
3. showInfo
4. Save and Quit
1
Input: string mobile_phone(11), string sex(male/female), int years
18811110003 male 50
1. setInfo
2. changeInfo
3. showInfo
4. Save and Quit
4

Select Basic Function--> Query User Basic Information--> Modify User Basic Information--> Modify Mobile Number--> Modify successfully.

Would you like to do?
[1] Basic functions
[2] Points Management
[3] Integral conversion
[4] Points Trading
[5] Funds management
[6] Exit
1
1. setInfo
2. changeInfo
3. showInfo
4. Save and Quit
3
mobile_phone:18810970002 sex:male years:34
1. setInfo
2. changeInfo
3. showInfo
4. Save and Quit
2
What would you like to change?
1. mobile_phone
2. sex
3. years
4. Exit
1
Please input mobile_phone(string,11):
18867890002
1. setInfo
2. changeInfo

3. showInfo
4. Save and Quit
4

Select the Money Management function ---> Show balance ---> Top up ---> Successful top up, current balance displayed ---> Withdrawal ---> Successful withdrawal, current balance displayed

Would you like to do?
[1] Basic functions
[2] Points Management
[3] Integral conversion
[4] Points Trading
[5] Funds management
[6] Exit
5
Could not open . /Data/User/Money/0003
1. getMoney
2. addMoney
3. reduceMoney
4. Save and Quit
1
Balance:0
1. getMoney
2. addMoney
3. reduceMoney
4. Save and Quit
2
Input adding money:
1000
add successful, now balance: 1000
1. getMoney
2. addMoney
3. reduceMoney
4. Save and Quit
3
Input reducing money:
200
reduce successful, now balance: 800
1. getMoney
2. addMoney
3. reduceMoney
4. Save and Quit

4

Select the Funds Management function ---> Withdrawal (greater than current balance) ---> Withdrawal failed, current balance displayed.

Would you like to do?
[1] Basic functions
[2] Points Management
[3] Integral conversion
[4] Points Trading
[5] Funds management
[6] Exit
5
balance:800
1. getMoney
2. addMoney
3. reduceMoney
4. Save and Quit
3
Input reducing money:
1000
Balance: 800.000000

Select the points management function ---> Affiliated merchants, import the existing points in the merchant ---> successful import

Would you like to do?
[1] Basic functions
[2] Points Management
[3] Integral conversion
[4] Points Trading
[5] Funds management
[6] Exit
2
Could not open . /Data/User/Point/0002
Empty.
1. display
2. addMerchant
3. deleteMerchant
4. Save and Quit
2
Input merchant_id:
001
Add successful.

1. display
2. addMerchant
3. deleteMerchant
4. Save and Quit
2
Input merchant_id:
002
Add successful.
1. display
2. addMerchant
3. deleteMerchant
4. Save and Quit
2
Input merchant_id:
003
Add successful.
1. display
2. addMerchant
3. deleteMerchant
4. Save and Quit
4

Affiliated merchant (the user does not exist in the merchant's user points table) --> Import failed

1. display
2. addMerchant
3. deleteMerchant
4. Save and Quit
2
Input merchant_id:
004
This merchant id no Point for the user:0002

Affiliated merchant (the merchant's user points table does not exist) --> import failed

1. display
2. addMerchant
3. deleteMerchant
4. Save and Quit
2
Input merchant_id:
005

could not open . /Data/Merchant/User_point/005
This merchant has no User Point List File.

Show points details ---> Delete associated account ---> Deletion successful.

1. display
2. addMerchant
3. deleteMerchant
4. Save and Quit
1
Belongs to(Merchant ID):001 Number:2000 Expired Data: 2020-12-31
Belongs to(Merchant ID):002 Number:3000 Expired Data: 2021-12-31
Belongs to(Merchant ID):003 Number:3000 Expired Data: 2021-12-31
1. display
2. addMerchant
3. deleteMerchant
4. Save and Quit
3
Input merchant_id:
001
delete successful.
1. display
2. addMerchant
3. deleteMerchant
4. Save and Quit
1
Belongs to(Merchant ID):002 Number:3000 Expired Data: 2021-12-31
Belongs to(Merchant ID):003 Number:3000 Expired Data: 2021-12-31
1. display
2. addMerchant
3. deleteMerchant
4. Save and Quit
4

Delete associated account (account is not associated/does not exist) --> deletion failed.

1. display
2. addMerchant
3. deleteMerchant
4. Save and Quit
3
Input merchant_id:
004
No such merchant id:004

Select the points conversion function-->Apply for points conversion-->Confirm the order-->Pay the handling fee-->Successful application, freeze the points

What would you like to do?
[1] Basic functions
[2] Points Management
[3] Integral conversion
[4] Points Trading
[5] Funds management
[6] Exit
3
1. apply_points_transfer
2. show_u2u_Finish_Order
3. show_u2u_Payed_Order
4. Save and Quit
1
Belongs to(Merchant ID):003 Number:2000 Expired Data: 2023-12-31
Belongs to(Merchant ID):004 Number:1050 Expired Data: 2023-12-31
Input in_merchant_id,out_merchant_id,Number of points:
004 003 1000
Order ID: 1590654358_u2u From: 18811110004, 003, 1000 Points To: 18811110004, 004, 2000 Points fee: 1.5
Check order: y or n
y
Belongs to(Merchant ID):003 Number:2000 Expired Data: 2023-12-31
Belongs to(Merchant ID):004 Number:1050 Expired Data: 2023-12-31
Could not open . /Data/User/Money/0004
fee:1.5
check pay 1.500000 : y or n
y
Pay successful ; balance: 98.5
1. apply_points_transfer
2. show_u2u_Finish_Order
3. show_u2u_Payed_Order
4. Save and Quit
4

Application for points conversion ---> confirmation of order ---> payment of handling fee (insufficient balance) ---> application failed, no freezing of points

1. apply_points_transfer
2. show_u2u_Finish_Order
3. show_u2u_Payed_Order

4. Save and Quit
1
Belongs to(Merchant ID):003 Number:2000 Expired Data: 2023-12-31
Belongs to(Merchant ID):004 Number:1050 Expired Data: 2023-12-31
Input in_merchant_id,out_merchant_id,Number of points:
004 003 500
Order ID: 1590654017_u2u From: 18811110004, 003, 500 Points To: 18811110004, 004, 1000 Points fee: 0.75
Check order: y or n
y
Belongs to(Merchant ID):003 Number:2000 Expired Data: 2023-12-31
Belongs to(Merchant ID):004 Number:1050 Expired Data: 2023-12-31
Could not open . /Data/User/Money/0004
fee:0.75
check pay 0.750000 : y or n
y
Balance: 0

Application for point conversion--->Insufficient points--->Application failed, no point freeze

1. apply_points_transfer
2. show_u2u_Finish_Order
3. show_u2u_Payed_Order
4. Save and Quit
1
Belongs to(Merchant ID):003 Number:1000 Expired Data: 2023-12-31
Belongs to(Merchant ID):004 Number:1050 Expired Data: 2023-12-31
Input in_merchant_id,out_merchant_id,Number of points:
004 003 2000
not enough point in 003
Belongs to(Merchant ID):003 Number:1000 Expired Data: 2023-12-31
Belongs to(Merchant ID):004 Number:1050 Expired Data: 2023-12-31
Apply fail.

Application for points conversion ---> order confirmation (order cancellation) ---> failed application, no points freeze

1. apply_points_transfer
2. show_u2u_Finish_Order
3. show_u2u_Payed_Order
4. Save and Quit
1
Belongs to(Merchant ID):003 Number:1000 Expired Data: 2023-12-31

Belongs to(Merchant ID):004 Number:1050 Expired Data: 2023-12-31
Input in_merchant_id,out_merchant_id,Number of points:
004 003 1000
Order ID: 1590654579_u2u From: 18811110004, 003, 1000 Points To: 18811110004, 004, 2000 Points fee: 1.5
Check order: y or n
n
Belongs to(Merchant ID):003 Number:1000 Expired Data: 2023-12-31
Belongs to(Merchant ID):004 Number:1050 Expired Data: 2023-12-31
Apply fail.
1. apply_points_transfer
2. show_u2u_Finish_Order
3. show_u2u_Payed_Order
4. Save and Quit

Application for points conversion-->Confirm order-->Payment of handling fee (cancellation of payment)-->Unsuccessful application, no freezing of points

1. apply_points_transfer
2. show_u2u_Finish_Order
3. show_u2u_Payed_Order
4. Save and Quit
1
Belongs to(Merchant ID):003 Number:1000 Expired Data: 2023-12-31
Belongs to(Merchant ID):004 Number:1050 Expired Data: 2023-12-31
Input in_merchant_id,out_merchant_id,Number of points:
004 003 1000
Order ID: 1590654579_u2u From: 18811110004, 003, 1000 Points To: 18811110004, 004, 2000 Points fee: 1.5
Check order: y or n
y
Belongs to(Merchant ID):003 Number:1000 Expired Data: 2023-12-31
Belongs to(Merchant ID):004 Number:1050 Expired Data: 2023-12-31
balance:98.5
fee:1.5
check pay 1.500000 : y or n
n

Enquire about completed points conversion orders ---> Enquire about incomplete points conversion orders

1. apply_points_transfer
2. show_u2u_Finish_Order

3. show_u2u_Payed_Order
4. Save and Quit
2
Empty.
1. apply_points_transfer
2. show_u2u_Finish_Order
3. show_u2u_Payed_Order
4. Save and Quit
3
Order ID: 1590654358_u2u From: 003, 1000 Points To: 004, 2000 Points

Select points transaction-->Select the merchant account for enquiry-->Select the item and quantity to be purchased (quantity over stock)-->Confirm the order-->Payment-->Successful

Personal User ID:0001 User Name:18811110001
What would you like to do?
[1] Basic functions
[2] Points Management
[3] Integral conversion
[4] Points Trading
[5] Funds management
[6] Exit
2
1. display
2. addMerchant
3. deleteMerchant
4. Save and Quit
1
Belongs to(Merchant ID):001 Number:3000 Expired Data: 2020-12-31
Belongs to(Merchant ID):004 Number:500 Expired Data: 2020-12-31
1. display
2. addMerchant
3. deleteMerchant
4. Save and Quit
4
What would you like to do?
[1] Basic functions
[2] Points Management
[3] Integral conversion
[4] Points Trading
[5] Funds management
[6] Exit

4
Input merchant_id:
001
Produce ID:2 Point:1000 Price:10 Quantity:1000 ifListed:1
Produce ID:3 Point:1000 Price:8 Quantity:10 ifListed:1
Produce ID:4 Point:3000 Price:23 Quantity:1000 ifListed:1
Produce ID:5 Point:2000 Price:19 Quantity:1000 ifListed:1
Input product_id,Number of products you want:
2 1
Order ID: 1590674241_m2u Seller:001 Product ID:2 Price10 Quantity:1 Buyer:0001 Status:1
check order: y or n
y
balance:484
check pay 10.000000 : y or n
y
Pay successful ; balance: 474
What would you like to do?
[1] Basic functions
[2] Points Management
[3] Integral conversion
[4] Points Trading
[5] Funds management
[6] Exit
2
1. display
2. addMerchant
3. deleteMerchant
4. Save and Quit
1
Belongs to(Merchant ID):001 Number:3000 Expired Data: 2020-12-31
Belongs to(Merchant ID):004 Number:500 Expired Data: 2020-12-31

Select credit transaction ---> select the item and quantity to buy (quantity over stock) ---> failed

What would you like to do?
[1] Basic functions
[2] Points Management
[3] Integral conversion
[4] Points Trading
[5] Funds management
[6] Exit
4
Input merchant_id:

001
Produce ID:2 Point:1000 Price:10 Quantity:1000 ifListed:1
Produce ID:3 Point:1000 Price:8 Quantity:10 ifListed:1
Produce ID:4 Point:3000 Price:23 Quantity:1000 ifListed:1
Produce ID:5 Point:2000 Price:19 Quantity:1000 ifListed:1
Input product_id,Number of products you want:
3 20
Too much number

Select Points Transaction ---> Select the merchant account for the enquiry (the account is not linked) ---> Failed

What would you like to do?
[1] Basic functions
[2] Points Management
[3] Integral conversion
[4] Points Trading
[5] Funds management
[6] Exit
4
Input merchant_id:
001
Produce ID:2 Point:1000 Price:10 Quantity:1000 ifListed:1
Produce ID:3 Point:1000 Price:8 Quantity:10 ifListed:1
Produce ID:4 Point:3000 Price:23 Quantity:1000 ifListed:1
Produce ID:5 Point:2000 Price:19 Quantity:1000 ifListed:1
Input product_id,Number of products you want:
3 2
Order ID: 1590673817_ Seller:001 Product ID:3 Price8 Quantity:2 Buyer:0004 Status:1
check order: y or n
y
balance:98.5
check pay 16.000000 : y or n
y
no Merchant_id: 001

Merchant user testing

Select user management function ---> Enter new user information ---> Check user's current points ---> Success

What would you like to do?
[1] Basic functions
[2] User management
[3] Commodity Management
[4] Points Management
[5] Funds management
[6] Exit
1
1. add_a_new_user_point
2. show_a_user_now_point
3. Quit
1
Input a new User Name, the number of points, the expired data of points
18811110004 5000 2022-06-30
Add successful.
1. add_a_new_user_point
2. show_a_user_now_point
3. Quit
2
Input existed User id:
0001
Belongs to(Merchant ID):001 Number:4000 Expired Data: 2020-12-31

Select the user management function ---> Show all product information ---> Add product ---> Show all product information ---> Success

What would you like to do?
[1] Basic functions
[2] User management
[3] Commodity Management
[4] Points Management
[5] Funds management
[6] Exit
3
1. add_a_product
2. show_all_product
3. change a Product

4. getProductSize
5. Quit
2
Produce ID:1 Point:1000 Price:10 Quantity:998 ifListed:0
Produce ID:2 Point:1000 Price:10 Quantity:1000 ifListed:1
Produce ID:3 Point:1000 Price:8 Quantity:6 ifListed:1
Produce ID:4 Point:3000 Price:23 Quantity:1000 ifListed:1
Produce ID:5 Point:2000 Price:19 Quantity:1000 ifListed:1
1. add_a_product
2. show_all_product
3. change a Product
4. getProductSize
5. Quit
1
Please input:point,_price,_quantity, _ifListed(1/0)
500 6 100 1
1. add_a_product
2. show_all_product
3. change a Product
4. getProductSize
5. Quit
2
Produce ID:1 Point:1000 Price:10 Quantity:998 ifListed:0
Produce ID:2 Point:1000 Price:10 Quantity:1000 ifListed:1
Produce ID:3 Point:1000 Price:8 Quantity:6 ifListed:1
Produce ID:4 Point:3000 Price:23 Quantity:1000 ifListed:1
Produce ID:5 Point:2000 Price:19 Quantity:1000 ifListed:1
Produce ID:6 Point:500 Price:6 Quantity:100 ifListed:1
1. add_a_product
2. show_all_product
3. change a Product
4. getProductSize
5. Quit
5

Select User Management Function-->Select Modify Product Information-->Modify Shelf/Unshelf Status-->Successful-->Total Products Count

1. add_a_product
2. show_all_product
3. change a Product
4. getProductSize
5. Quit

3
Input a product ID:
5
What would you like to change?
1. if listed(1/0)
2. Price
3. Quantity
4. Point
5. Save and Quit
1
Input true/false:
false
1
1. add_a_product
2. show_all_product
3. change a Product
4. getProductSize
5. Quit
2
Produce ID:1 Point:1000 Price:10 Quantity:998 ifListed:0
Produce ID:2 Point:1000 Price:10 Quantity:1000 ifListed:1
Produce ID:3 Point:1000 Price:8 Quantity:6 ifListed:1
Produce ID:4 Point:3000 Price:23 Quantity:1000 ifListed:1
Produce ID:5 Point:2000 Price:19 Quantity:1000 ifListed:0
Produce ID:6 Point:500 Price:6 Quantity:100 ifListed:1
1. add_a_product
2. show_all_product
3. change a Product
4. getProductSize
5. Quit
4
Total:6

Select the points management function ---> Modify points price ---> Success

What would you like to do?
[1] Basic functions
[2] User management
[3] Commodity Management
[4] Points Management
[5] Funds management
[6] Exit
4
1. set_point_price

2. Quit
1
Input a price:
1.2
set price successful

Platform user testing

Select the trading function ---> Agree to the order ---> Successful execution of the transaction

User ID:01 User Name:system_user1
What would you like to do?
[1] Trading
[2] Merchant Management
[3] User management
[4] Order Management
[5] Merchandise Management
[6] Exit
1
Order ID: 1590654358_u2u From: 003, 1000 Points To: 004, 2000 Points
Allow :1590654358_u2u ? y or n
y
003 reduce money:28.5
004 add money:27

Select merchant management function-->Display merchant ID and user name, total statistics-->Query merchant information

What would you like to do?
[1] Trading
[2] Merchant Management
[3] User management
[4] Order Management
[5] Merchandise Management
[6] Exit
2
1. show_a_MerchantInfo
2. show_all_Merchant_Name
3. Quit
2
001 a1

002 a2
003 dsag
004 adfad
005 agr456346
006 dyuykgf
007 010101
Total:7
1. show_a_MerchantInfo
2. show_all_Merchant_Name
3. Quit
1
Input existed Merchant id:
001
  mobile_phone:18810100001 sex:male years:22
1. show_a_MerchantInfo
2. show_all_Merchant_Name
3. Quit
3

Select the User Management function ---> Show all user IDs and usernames --->

Check user information ---> Check user points account details

What would you like to do?
[1] Trading
[2] Merchant Management
[3] User management
[4] Order Management
[5] Merchandise Management
[6] Exit
3
1. show_a_user_info
2. show_all_User_Name
3. show_a_user_all_point
4. Quit
2
user_id:0001 username18811110001
user_id:0002 username18810970002
user_id:0003 username18811110003
user_id:0004 username18811110004
user_id:0005 username18811110005
user_id:0005 username18811110005
Total:6
1. show_a_user_info
2. show_all_User_Name

3. show_a_user_all_point
4. Quit
1
Input existed User id:
0001
  mobile_phone:18810970001 sex:male years:30
1. show_a_user_info
2. show_all_User_Name
3. show_a_user_all_point
4. Quit
3
Input existed User id:
0001
Belongs to(Merchant ID):001 Number:4000 Expired Data: 2020-12-31
Belongs to(Merchant ID):004 Number:500 Expired Data: 2020-12-31

Select the order management function ---> Show all points conversion orders

What would you like to do?
[1] Trading
[2] Merchant Management
[3] User management
[4] Order Management
[5] Merchandise Management
[6] Exit
4
1. show_all_u2u_Payed_Order
2. show_all_u2u_Finish_Order
4. Quit
2
Order ID: 1590142943_u2u From: 002, 10 Points To: 001, 20 Points
Order ID: 1590491117_u2u From: 001, 20 Points To: 003, 6 Points
Order ID: 1590498246_u2u From: 001, 30 Points To: 003, 10 Points
Order ID: 1590498603_u2u From: 001, 60 Points To: 003, 20 Points
Order ID: 1590498921_u2u From: 001, 60 Points To: 003, 20 Points
Order ID: 1590499458_u2u From: 002, 60 Points To: 003, 40 Points
Order ID: 1590499629_u2u From: 001, 60 Points To: 003, 20 Points
Order ID: 1590654358_u2u From: 003, 1000 Points To: 004, 2000 Points
1. show_all_u2u_Payed_Order
2. show_all_m2u_Finish_Order
3. show_all_u2u_Finish_Order
4. Quit

Select the product management function ---> Show one product for one merchant ---> Show all products for one merchant ---> Force the merchant's products to be taken down

What would you like to do?
[1] Trading
[2] Merchant Management
[3] User management
[4] Order Management
[5] Merchandise Management
[6] Exit
5
1. show_a_MerchantProduct
2. show_a_Merchant_all_Product
3. off_a_MerchantProduct
4. Save and Quit
2
Input existed Merchant id:
001
Produce ID:1 Point:1000 Price:10 Quantity:998 ifListed:0
Produce ID:2 Point:1000 Price:10 Quantity:1000 ifListed:0
Produce ID:3 Point:1000 Price:8 Quantity:6 ifListed:1
Produce ID:4 Point:3000 Price:23 Quantity:1000 ifListed:1
Produce ID:5 Point:2000 Price:19 Quantity:1000 ifListed:0
Produce ID:6 Point:500 Price:6 Quantity:100 ifListed:1
Total:6
1. show_a_MerchantProduct
2. show_a_Merchant_all_Product
3. off_a_MerchantProduct
4. Save and Quit
3
Input existed Merchant id and its Product id:
001 4