



City University of Hong Kong

Department of Computer Science

Summer Storage Management System for CSSAUG

User Manual

Collaborators:

DONG Jia Jie

LI Xiao Yang

SHA Xin Chen

ZHENG Shang Kun

ZHOU Yu

ZHANG Tian Tian

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1 Register & Login

Before users actually executes any commands, they are supposed to register their accounts and login.

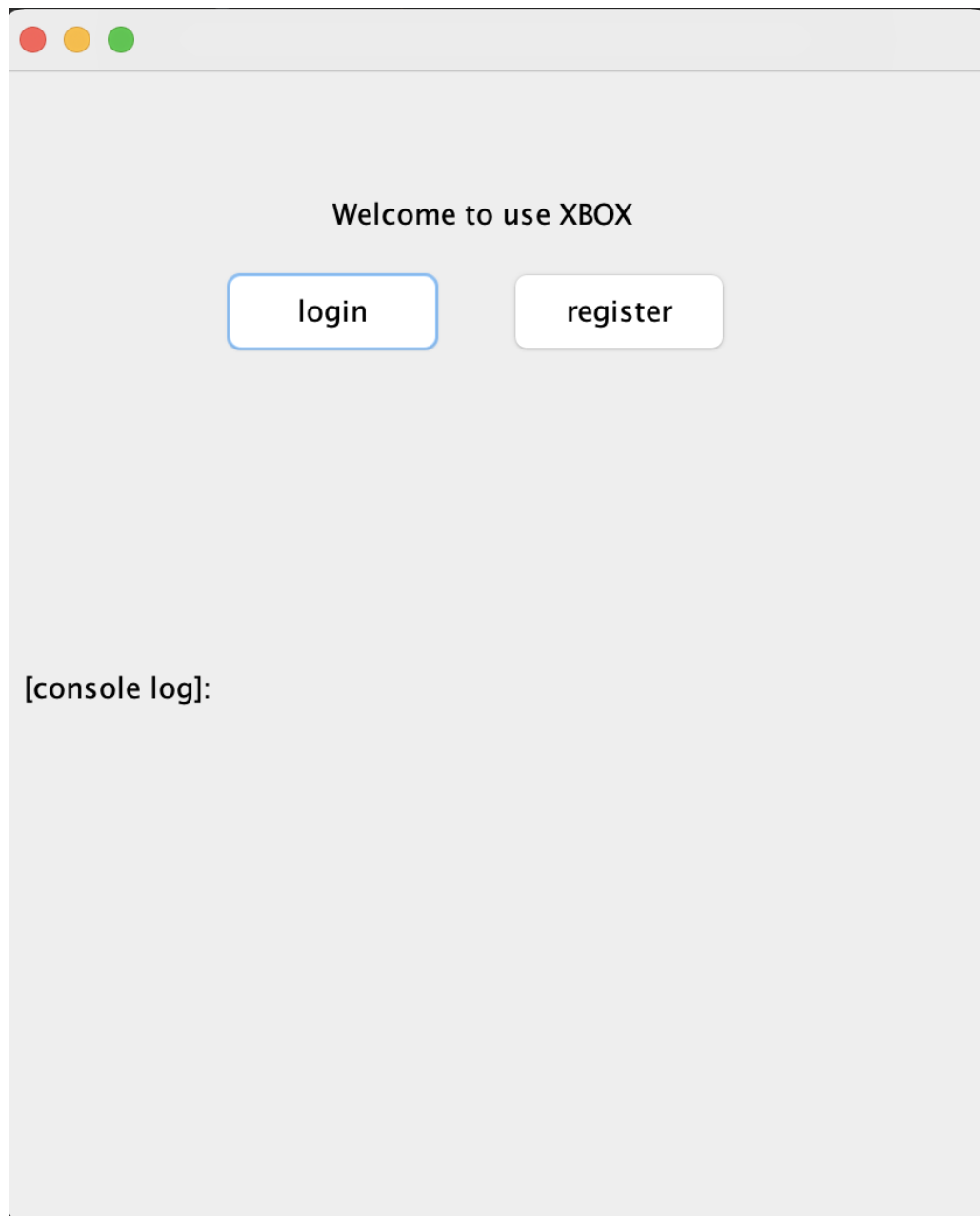


Figure 1: login & register

There are three fields to fill in, which includes email address, phone number and password. It is worth noting that empty input for any of the three fields is illegal.

Register an account: [Back](#)

Email:

Phone number:

Password:

☒ student ☐ staff

[Register](#)

[console log]:

(a) normal flow

Register an account: [Back](#)

Email:

Phone number:

Password:

☒ student ☐ staff

[Register](#)

[console log]:

Error

[Error] Please fill in all blank fields!

[OK](#)

(b) empty field

Once users successfully register or login, they shall see success notifications in the log console below.

Welcome to use XBOX

[login](#) [register](#)

[console log]:

Register Success <xyli45@gmail.com>

(c) register success

Select one command [Quit](#)

[Request](#) [Store](#)

[Return](#) [Summary](#)

[Undo](#) [Redo](#)

[console log]:

.login Success <xyli45@gmail.com>

(d) login success

2 User Interfaces

Apart from undo and redo functions, four user interfaces including request, store, return and summary are provided. To execute each commands, the client needs to specify input parameters in predefined input format, for example, all segments are separated by blank space delimiters. Therefore, input mistakes such as failing to provide correct delimiters or wrong case sensitive may lead to unexpected program behaviors, which are generally regarded as operation mistakes instead of bugs or program errors.

Request Back

The number of items:

Rent duration (month):

☒ Box ☐ Bag

Run

[console log]:

```
[request list]
> BOX1000 2023-02-22
> BOX1005 2023-02-22
> BOX1008 2023-02-22
```

Summary:

[ID]	[STATUS]	[DUE]	[PRICE]
BOX1000	Requested	2023-02-22	100.00
BOX1005	Requested	2023-02-22	100.00
BOX1008	Requested	2023-02-22	100.00

unused total: 300.00
used total: 0.00

Figure 2: runtime demo

To avoid inconvenience caused by mistakenly specifying parameters, redo and undo interfaces can be utilized to control the work flow flexibly.

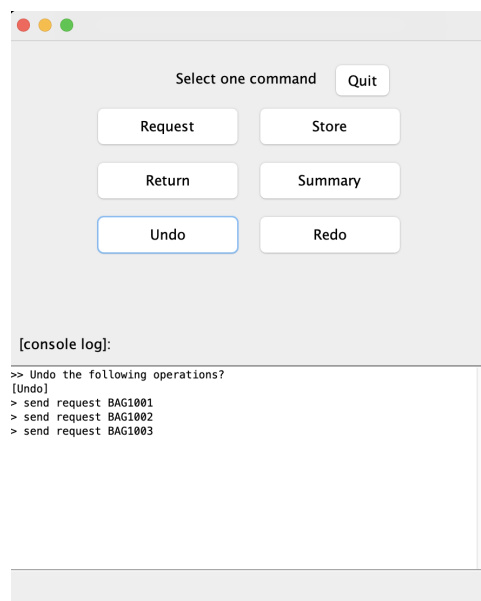


Figure 3: Undo

After finishing the tasks, you can click **summary** button to get an overview of the orderings for your reference, for instance, the item status.

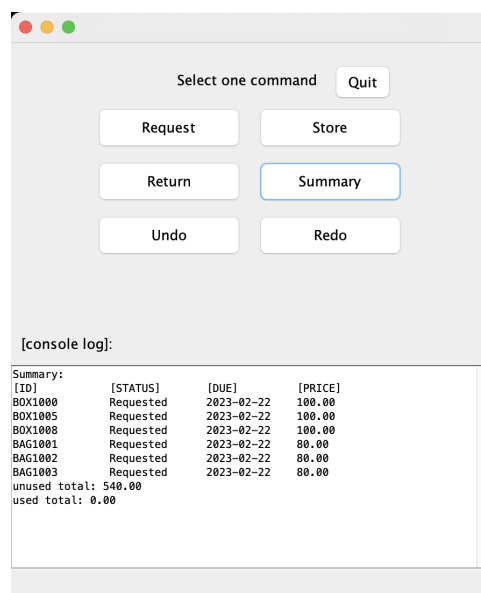


Figure 4: summary

Predefined input formats are listed as follows.

- **Request** [number of items] [rent duration] [type]

- **Store** [item id-1] [item id-2] ... [item id-n]

-**Return** [item id-1] [item id-2] ... [item id-n]

3 Admin Interfaces

Admin GUI and functions are specially designed for system administrators. Interfaces such as confirming payment, confirming return are provided for them in order to better manage the transaction records.

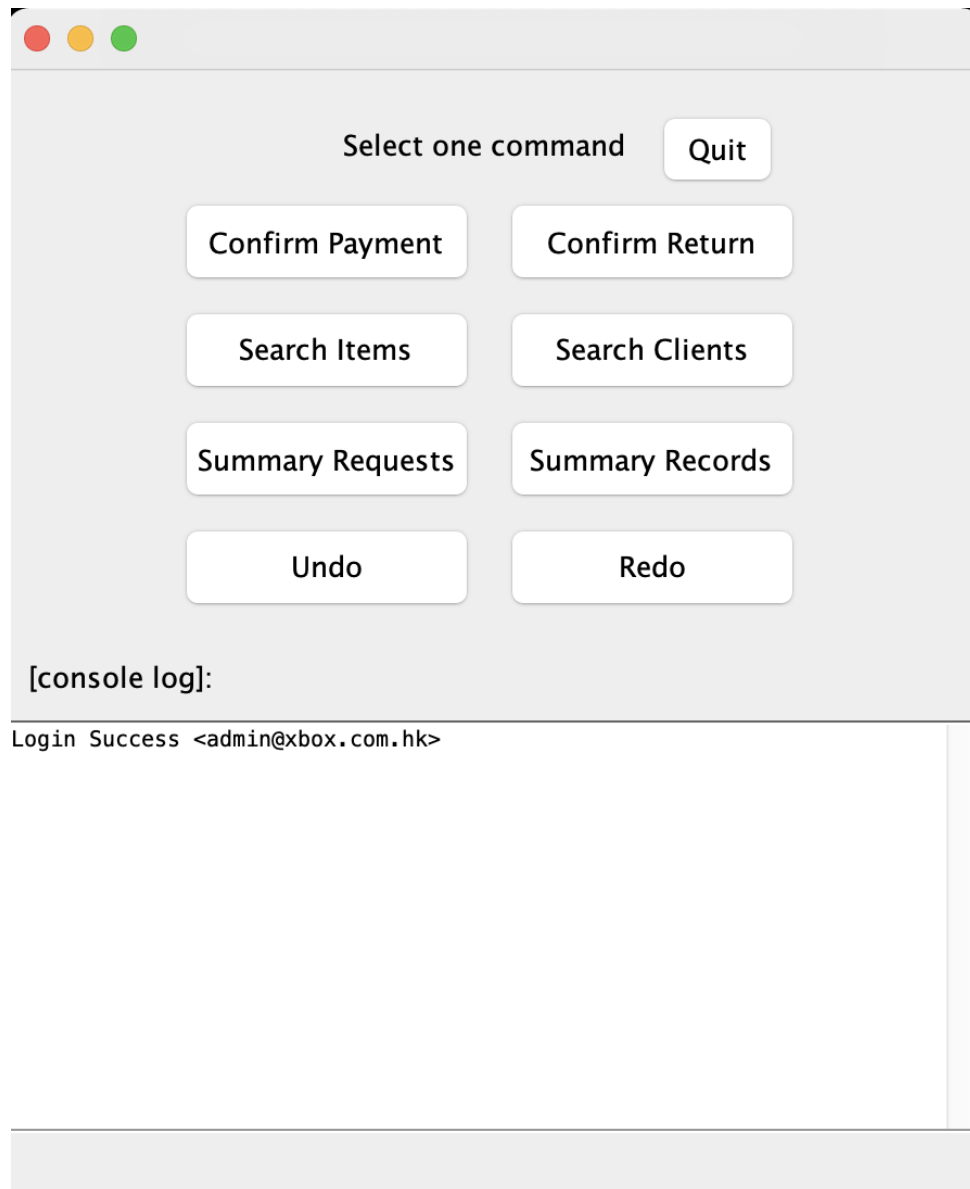


Figure 5: customized GUI and interfaces

Here we highlight some new features, for example, search functions and summary functions. Basically you can keep track of information of each and every inventories and

clients, which significantly enhance the management efficiency. Similarly, the administrator is able to undo or redo his or her incorrect operation, which is even more essential than that of users.

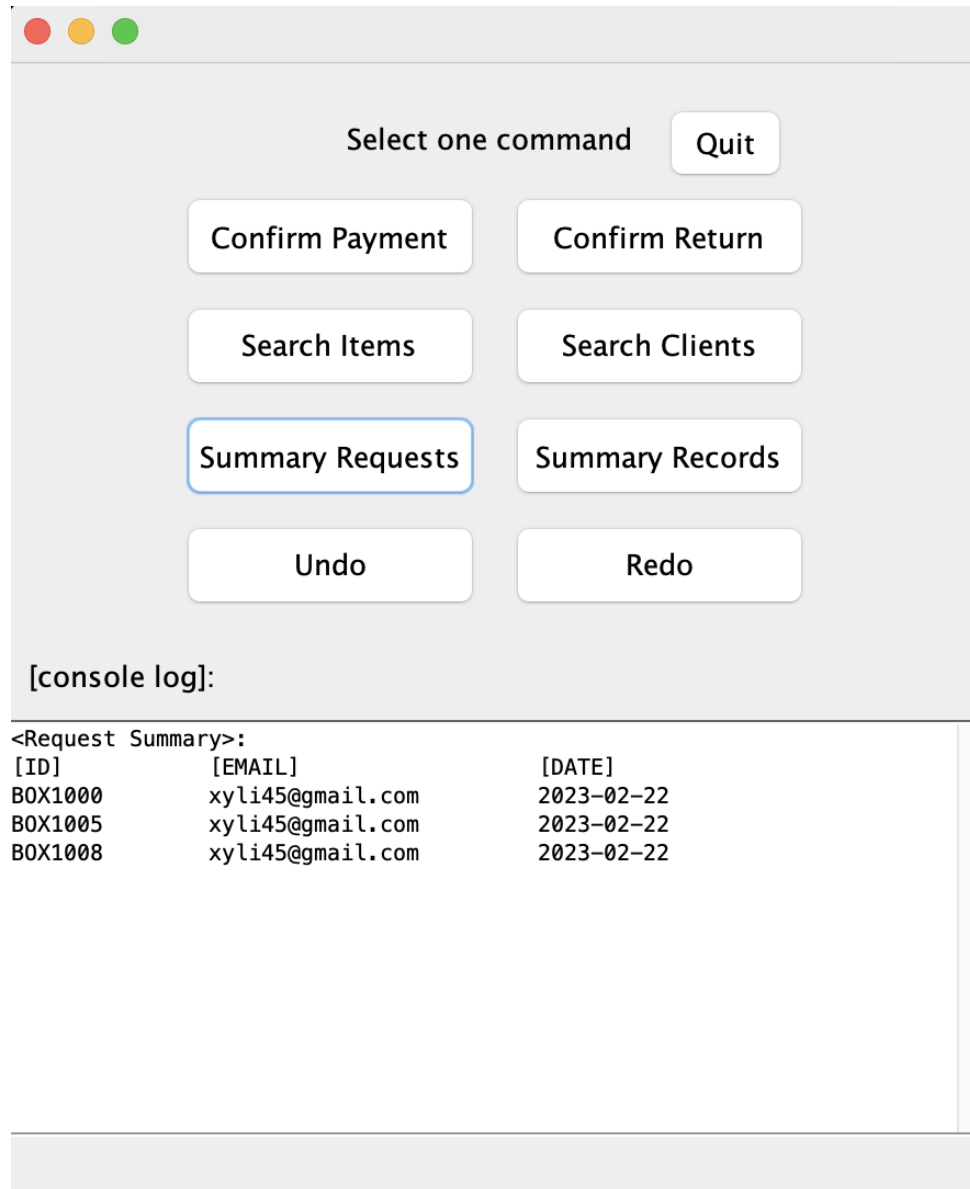


Figure 6: Summary of all orderings

Predefined input formats for admin interfaces are listed as follows.

- **Confirm payment** [email address]
- **Confirm return** [email address] [item id-1] ... [item id-n]

4 Quit

Inspired by microservice architecture, data related to clients, inventories and transactions will be maintained by json file operation. In general, as the program executes, it will firstly read json files to initialize data generated by the last execution. Unsurprisingly, it is when all the data is stored in the json file sets that one quits the program. By doing so, we ensure the consistency of running results between consecutive executions.

```

{} available_items.json ×
Users > lixiaoyang > Desktop > cs3343 > test_cases > {} available_items.json > ...
1 [{"id": "1000", "status": {"status": "Available"}, "type": "BOX"}, {"id": "1001", "status": {"status": "Available"}, "type": "BOX"}, {"id": "1002", "status": {"status": "Available"}, "type": "BOX"}, {"id": "1003", "status": {"status": "Available"}, "type": "BAG"}, {"id": "1004", "status": {"status": "Available"}, "type": "BAG"}, {"id": "1005", "status": {"status": "Available"}, "type": "BAG"}, {"id": "1006", "status": {"status": "Available"}, "type": "BAG"}, {"id": "1007", "status": {"status": "Available"}, "type": "BAG"}, {"id": "1008", "status": {"status": "Available"}, "type": "BAG"}, {"id": "1009", "status": {"status": "Available"}, "type": "BAG"}, {"id": "1010", "status": {"status": "Available"}, "type": "BAG"}, {"id": "1011", "status": {"status": "Available"}, "type": "BOX"}, {"id": "1012", "status": {"status": "Available"}, "type": "BAG"}, {"id": "1013", "status": {"status": "Available"}, "type": "BAG"}, {"id": "1014", "status": {"status": "Available"}, "type": "BOX"}, {"id": "1015", "status": {"status": "Available"}, "type": "BOX"}, {"id": "1016", "status": {"status": "Available"}, "type": "BAG"}, {"id": "1017", "status": {"status": "Available"}, "type": "BAG"}, {"id": "1018", "status": {"status": "Available"}, "type": "BOX"}, {"id": "1019", "status": {"status": "Available"}, "type": "BOX"}, {"id": "1020", "status": {"status": "Available"}, "type": "BAG"}, {"id": "1021", "status": {"status": "Available"}, "type": "BAG"}, {"id": "1022", "status": {"status": "Available"}, "type": "BAG"}, {"id": "1023", "status": {"status": "Available"}, "type": "BAG"}, {"id": "1024", "status": {"status": "Available"}, "type": "BOX"}, {"id": "1025", "status": {"status": "Available"}, "type": "BOX"}, {"id": "1026", "status": {"status": "Available"}, "type": "BAG"}, {"id": "1027", "status": {"status": "Available"}, "type": "BAG"}, {"id": "1028", "status": {"status": "Available"}, "type": "BOX"}, {"id": "1029", "status": {"status": "Available"}, "type": "BAG"}, {"id": "1030", "status": {"status": "Available"}, "type": "BAG"}, {"id": "1031", "status": {"status": "Available"}, "type": "BAG"}, {"id": "1032", "status": {"status": "Available"}, "type": "BAG"}, {"id": "1033", "status": {"status": "Available"}, "type": "BOX"}, {"id": "1034", "status": {"status": "Available"}, "type": "BAG"}, {"id": "1035", "status": {"status": "Available"}, "type": "BOX"}, {"id": "1036", "status": {"status": "Available"}, "type": "BAG"}, {"id": "1037", "status": {"status": "Available"}, "type": "BAG"}, {"id": "1038", "status": {"status": "Available"}, "type": "BAG"}, {"id": "1039", "status": {"status": "Available"}, "type": "BAG"}, {"id": "1040", "status": {"status": "Available"}, "type": "BOX"}, {"id": "1041", "status": {"status": "Available"}, "type": "BOX"}]

```

Figure 7: json file demo

In this case, service providers are capable of customizing their own use scenario based on real world demand.