CS3343 Software Engineering Practice

2022/23 Semester A

Group Project for Group 13

XBOX

Box Storage Management System

Bug Report

Conducted by:

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Bug-00001

Title: The client account is lost after registering with the same email
Status: Resolved
Alias: Lost client account
Product: Summer storage management system
Component: Database
Version: 2.0
Platform: PC Mac OS
Importance: High Critical
Assignee: Xingchen SHA
Reported: 2022-10-19 10:31:13 HKT by Charlie Lee
Modified: 2022-10-23 22:38:55 HKT

Charlie Lee **2022-10-19 10:31:13 HKT**

Describe the bug:
After I registered another account with the same email address as an account in the database, the original account's storage information is transferred to the new account.

Steps to reproduce the bug:
1. pull down the latest version of the program from GitHub.
2. go to the xBox/src/app folder, and switch to the "Main.java" file.
3. run the "Main.java" file.
4. register a client account with the same email address as an account in the database.
5. log in to the newly registered account, and click the record summary button.

Expected result:
On the panel, the records of this newly registered account should be empty.

Actual result:
The original account's information is transferred to this new account.

Environment:
OS: MacOS Mojave 10.14.3
IDE: Eclipse 2021-12
Version: 2.0
OpenJDK 17

Xingchen SHA 2022-10-20 17:56:15 HKT

Hi Charlie, thank you for your report. We have solved this bug in the latest version of the storage system. Now you should be able to set up different accounts with the same email address.

Charlie Lee 2022-10-23 22:38:55 HKT

Thank you for your reply. I have checked the latest version, and this problem is solved.

Bug-00002

Title: Email Recording Error for record summary function
Status: Resolved
Alias: Misrecorded email
Product: Summer storage management system
Component: Admin-end
Version: 3.0
Platform: PC Mac OS
Importance: High Critical
Assignee: Yu ZHOU
Reported: 2022-10-21 13:45:14 HKT by Kun
Modified: 2022-10-21 22:38:55 HKT

Kun 2022-10-21 13:45:14 HKT

Describe the bug:
After clients has submitted a rentable request, admin is supposed to handle payment in person and confirm payment using the management system interface. However, when summarizing records, the system lists the records with admin's email rather than clients', which is regarded as a output error.

Steps to reproduce the bug:
1. pull down the latest version of the program from github.
2. go the xBox/src/app folder, switch to the "Main.java" file.
3. run the "Main.java" file.
4. register and login client account, request rentables on the client-end interface.
5. register and login admin account, confirm payment on the admin-end interface. Click record summary button.

Expected result:
On the admin-end interface, all the records should be listed with correct corresponding clients' email.

Actual result:
As in the snapshot, the rentable's email is misrecorded as the admin's email.

Environment:
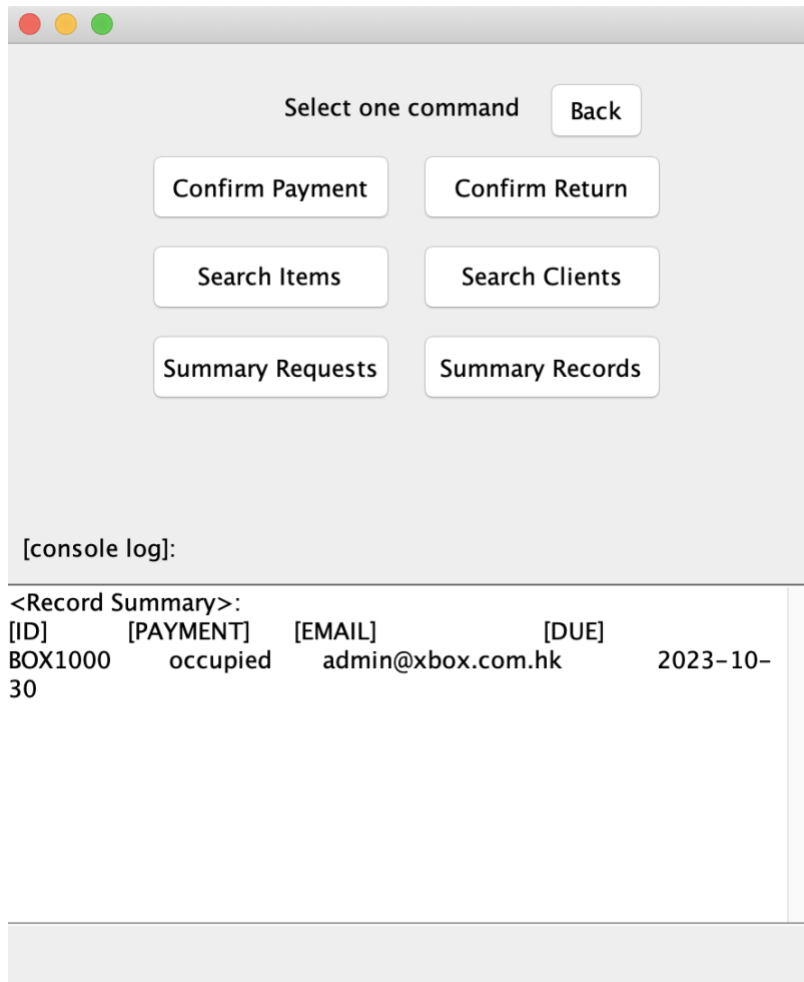OS: MacOS Monterey 12.0
IDE: Eclipse 2021-06
Version: 2.0
OpenJDK 17.0.4

Screenshot:

[console log]:

```
<Record Summary>:
[ID]        [PAYMENT]    [EMAIL]                [DUE]
BOX1000     occupied     admin@xbox.com.hk      2023-10-
30
```

Yu ZHOU 2022-10-24 07:56:15 HKT

Thanks for your kindly reporting, Kun. You're correct, this email was misrecorded due to some defections of the program. We have updated our program and fixed this bug in the latest version, on which you could check out.

Kun 2022-10-24 09:18:25 HKT

Seems that this bug has been properly solved, thanks.

Bug-00003

Title: Unwanted undo operation for clients
Status: Resolved
Alias: incorrect undo
Product: Summer storage management system
Component: Client-end
Version: 2.0
Platform: PC Mac OS
Importance: High Critical
Assignee: Yu ZHOU
Reported: 2022-10-21 14:25:24 HKT by Eric Ye

Eric Ye 2022-10-21 14:25:24 HKT

Describe the bug:
After the client submits requests and pays for the rentable fees, the admin should process this transaction by clicking on the confirm payment button on the admin-end interface. Then the transaction is deemed as completed and any withdrawal operations should not be allowed. However, on the client side, it is still feasible for clients to undo the previous operations, which is an illegal action. There should be either direct denial or alert messages pop-out to prohibit the client from committing the undo operation.

Steps to reproduce the bug:
1. pull down the latest version of the program from github.
2. go the xBox/src/app folder, switch to the "Main.java" file.
3. run the "Main.java" file.
4. register and login client account, request rentables on the client-end interface.
5. register and login admin account, confirm payment on the admin-end interface. Click record summary button.
6. switch back to client interface, click undo button.

Expected result:
Since the admin has confirmed payment and this transaction has been done, the client should not have the ability to undo the previous requests. After clicking the undo button, the console should inform the client that nothing can be undo.

Actual result:
The client successfully commits undo with no alerts.

Environment:
OS: MacOS Catalina 10.15.7

IDE: BlueJ 5.1.0
Version: 2.0
OpenJDK 17

Yu ZHOU 2022-10-22 07:28:53 HKT

Thanks for your report, Eric. There is a serious defection of the database cache, we have taken urgent measures to fix this issue. As we suppose, it is strictly forbidden to undo/redo once the user has logged out.

Yu ZHOU 2022-10-24 11:22:21 HKT

Hi Eric, our latest version program has been released, and please check out whether it can work properly in your case. Thanks.

Eric Ye 2022-10-24 16:28:55 HKT

I think this issue has been solved, thanks for your effort on it.

Bug-00004

Title: The client account cannot use the same email address as the admin account
Status: Resolved
Alias: The same email address with different types
Product: Summer storage management system
Component: Database
Version: 2.0
Platform: PC Windows
Importance: High Critical
Assignee: Xingchen SHA
Reported: 2022-10-21 10:31:13 HKT by Alisha Lam
Modified: 2022-10-23 22:38:55 HKT

Alisha Lam 2022-10-21 10:31:13 HKT

Describe the bug:
After registering an admin account, the system does not allow users to use the same email address to register another client account.

Steps to reproduce the bug:
1. pull down the latest version of the program from GitHub.
2. go to the xBox/src/app folder, and switch to the "Main.java" file.
3. run the "Main.java" file.
4. register an admin account in the system.
5. close the program, and run the "Main.java" file again.
6. try to register another client account with the same email address just used for the admin account.

Expected result:
The client account should be created without any problems

Actual result:
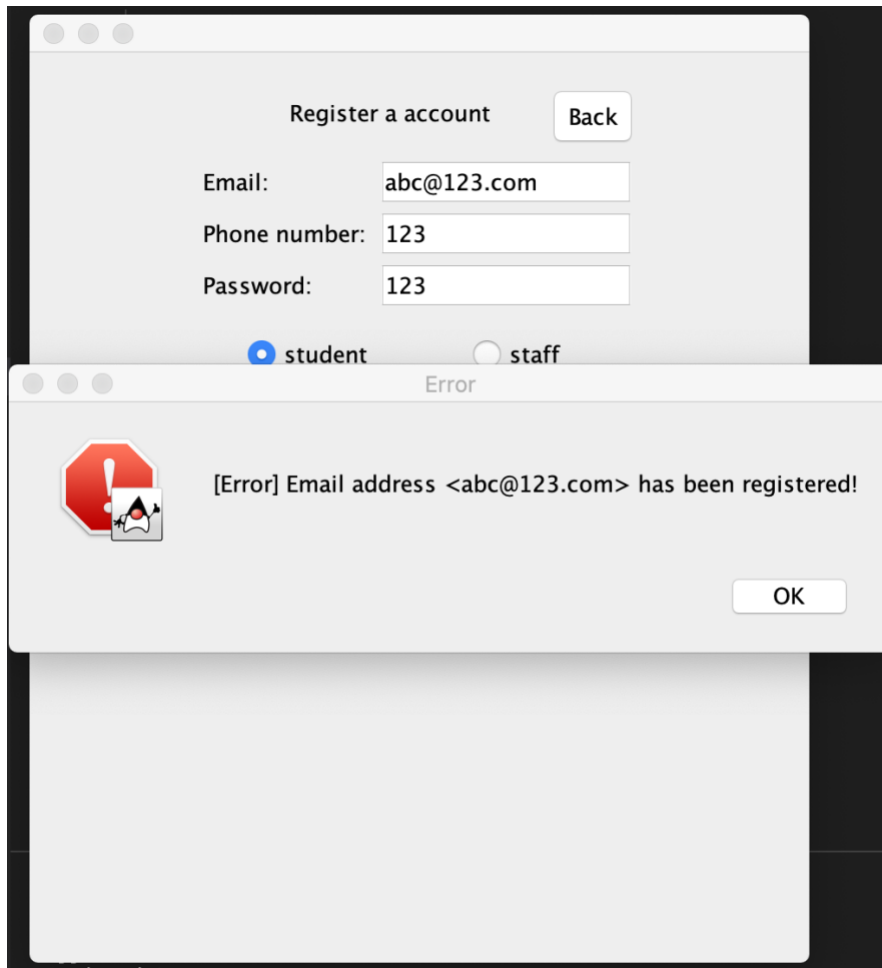As in the snapshot, the system does not allow users to register with this email address.

Environment:
OS: Windows 10
IDE: IntelliJ IDEA 2022.1
Version: 2.0
OpenJDK 11

Screenshot:

Xingchen SHA 2022-10-21 10:31:13 HKT

Hi Alisha, thank you for your report. We have solved this bug in the latest version of the storage system. Now you should be able to create a client account with the same email address as your admin account.

Alisha Lam 2022-10-23 22:38:55 HKT

Thank you for your reply. I update my system and find the problem is resolved.

Bug-00005

Title: The display panel cannot show the complete information
Status: Resolved
Alias: Incomplete display information
Product: Summer storage management system
Component: Client-end
Version: 3.0
Platform: PC Windows
Importance: High Critical
Assignee: Xingchen SHA
Reported: 2022-10-28 19:31:13 HKT by Zoe Cheung
Modified: 2022-11-1 22:38:55 HKT

Zoe Cheung 2022-10-28 19:31:13 HKT

Describe the bug:
After the user changes the program window size, the panel cannot show the complete information.

Steps to reproduce the bug:
1. pull down the latest version of the program from GitHub.
2. go to the xBox/src/app folder, and switch to the "Main.java" file.
3. run the "Main.java" file.
4. register a client/admin account in the system.
5. log into the system with the account
6. adjust to the smallest window size and notice the data output panel

Expected result:
The panel can still display all the output information.

Actual result:
As in the snapshot, the panel shows partial information, and the remaining information is missing or blocked.
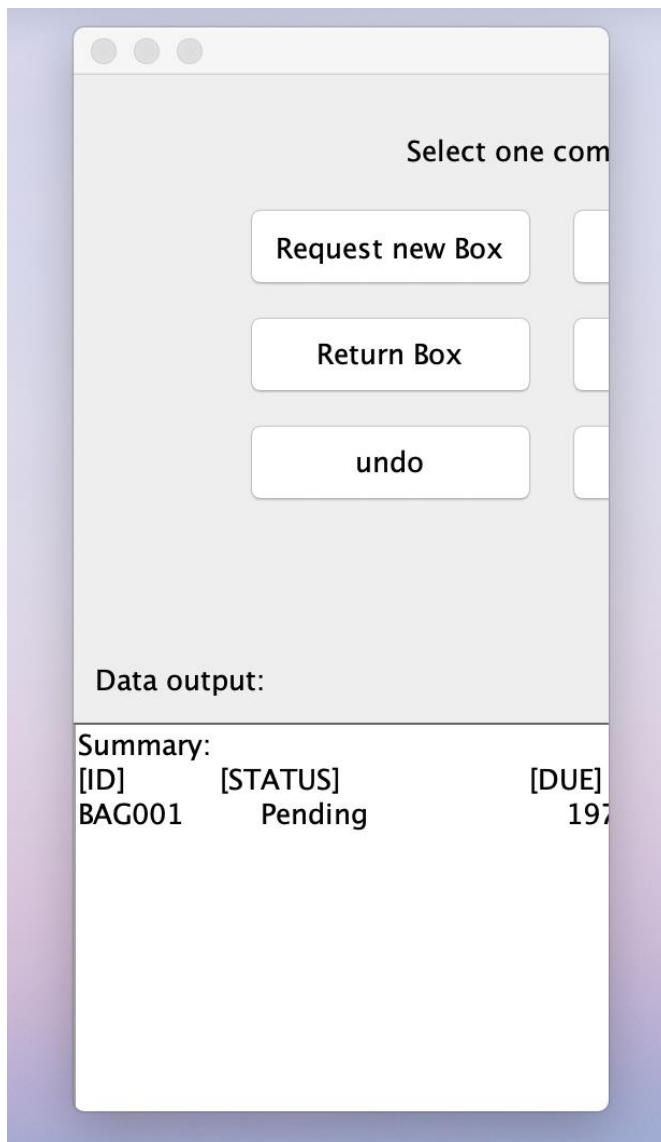
Environment:
OS: Windows 10
IDE: IntelliJ IDEA 2022.1
Version: 3.0
OpenJDK 17

Screenshot:

Xingchen SHA 2022-10-28 19:31:1 HKT

Hi Zoe, thank you for your report. We have solved this display bug. Now you should always be able to see the complete information no matter how you change the window size.

Zoe Cheung 2022-11-01 22:38:55 HKT

Thank you for your reply. I updated my system and find the problem is resolved.

Bug-00006

Title: Unable to redo after revoking the undo function with no instruction to redo
Status: Resolved
Alias: Redo function failure with an empty undo function
Product: Summer storage management system
Component: Client-end
Version: 3.0
Platform: PC Mac OS
Importance: High Critical
Assignee: Xingchen SHA
Reported: 2022-11-1 9:31:13 HKT by Alex Lam
Modified: 2022-11-3 12:38:55 HKT

Alex Lam 2022-11-1 9:31:13 HKT

Describe the bug:
After the user clicks the undo function but has actually no instruction to withdraw, the user will fail to redo all the instructions before.

Steps to reproduce the bug:
1. pull down the latest version of the program from GitHub.
2. go to the xBox/src/app folder, and switch to the "Main.java" file.
3. run the "Main.java" file.
4. register and log in to a client/admin account in the system.
5. conduct some common instructions of the program, including requesting and returning the boxes
6. keep undoing all the instructions and then revoke the undo function one more time
7. click the redo button many times and check whether previous instructions are transferred into the system again

Expected result:
The user should be able to run all the previous instructions again by revoking the redo function.

Actual result:
The user's previous instructions are missing and cannot run by clicking the redo function button.

Environment:
OS: MacOS Ventura 13.0.1

IDE: BlueJ 5.1.0
Version: 3.0
OpenJDK 17

Xingchen SHA 2022-11-02 11:31:1 HKT

Hi Alex, thank you for your report. We have solved this bug in the latest version. Now you should be able to redo all the previous instructions.

Alex Lam 2022-11-03 12:38:55 HKT

Thank you for your reply. I updated my system and found the problem was resolved.

Bug-00007

Title: Unable to redo after the function collapses
Status: Resolved
Alias: Missing previous instructions after collapses
Product: Summer storage management system
Component: Database
Version: 3.0
Platform: PC Mac OS
Importance: High Critical
Assignee: Xingchen SHA
Reported: 2022-11-1 9:31:13 HKT by Tom Chiu
Modified: 2022-11-3 12:38:55 HKT

Tom Chiu 2022-11-1 9:31:13 HKT

Describe the bug:
After the program is closed or collapsed, the user restarts the program and finds him unable to redo or undo his previous instructions.

Steps to reproduce the bug:
1. pull down the latest version of the program from GitHub.
2. go to the xBox/src/app folder, and switch to the "Main.java" file.
3. run the "Main.java" file.
4. register and log in to a client/admin account in the system.
5. conduct some common instructions of the program, including requesting and returning the boxes
6. close the program by force quit
7. repeat steps 3 and 4
8. click the redo or undo function and check if previous instructions remain in the database.

Expected result:
The user should be able to operate on all the previous instructions again after rerunning the program.

Actual result:
The user's previous instructions are all missing.

Environment:
OS: ubuntu 22.04
IDE: Eclipse 2021-12
Version: 3.0

OpenJDK 11

Xingchen SHA 2022-11-2 9:31:1 HKT

Hi Tom, thank you for your report. We have solved this bug in the latest version. Now you should be able to restore all the previous instructions after you reopen the program.

Tom Chiu 2022-11-03 12:38:55 HKT

Thank you for your reply. I updated my system and find the problem is resolved.

Bug-00008

Title: Summary Request function for Admin-end not work
Status: Resolved
Alias: summary request malfunction
Product: Summer storage management system
Component: Admin-end
Version: 3.0
Platform: PC Mac OS
Importance: High Critical
Assignee: Yu ZHOU
Reported: 2022-11-2 18:26:14 HKT by Charles Yu

Charles Yu 2022-11-2 18:26:14 HKT

Describe the bug:
I login as an admin and confirmed part of the payment, however, when I click on the request summary, the unhandled request were unexpectedly disappeared.

Steps to reproduce the bug:
1. pull down the latest version of the program from github.
2. go the xBox/src/app folder, switch to the "Main.java" file.
3. run the "Main.java" file.
4. register and login client account, request rentables on the client-end interface.
5. register and login admin account, confirm payment on the admin-end interface. Click request summary button.

Expected result:
On the admin-end interface, all the unhandled requests should be listed correctly.

Actual result:
As in the snapshot, there is nothing on the console after I click on the request summary button.
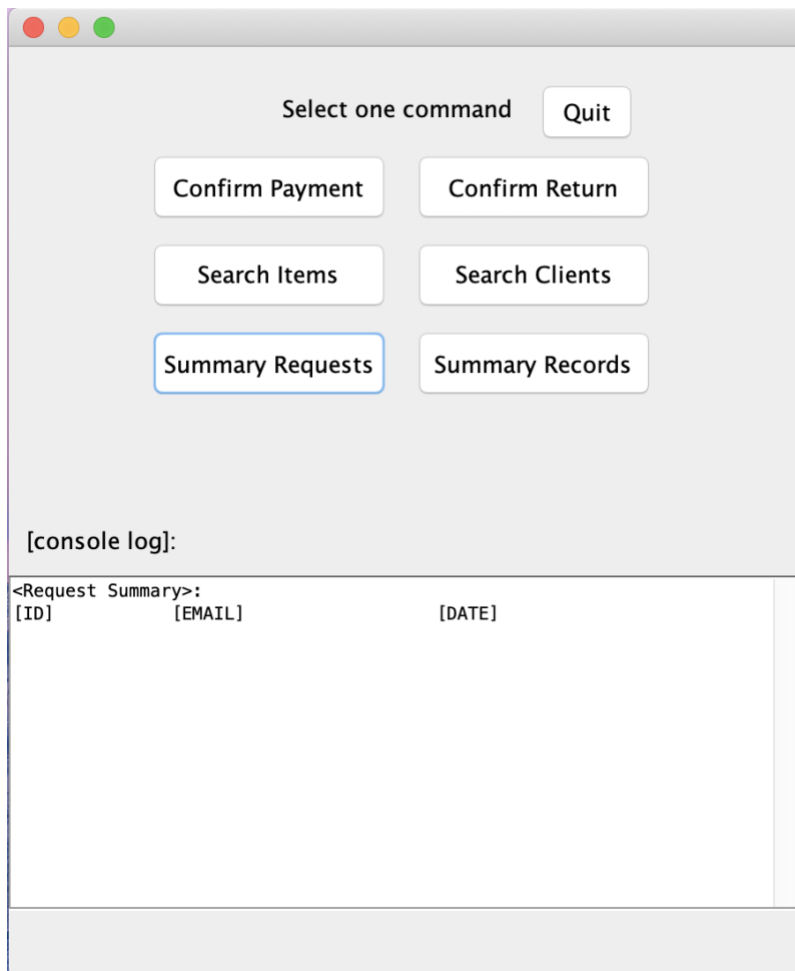
Environment:
OS: ubuntu 20.04
IDE: IntelliJ IDEA 2022.1
Version: 3.0
OpenJDK 17

Screenshot:


```
Select one command    Quit

Confirm Payment        Confirm Return

Search Items           Search Clients

Summary Requests       Summary Records

[console log]:

<Request Summary>:
[ID]          [EMAIL]              [DATE]
```

Yu ZHOU 2022-11-3 10:38:55 HKT

Hi Charles, actually your issue is an default behavior of the system, which is supposed to be normal. As we think that all the unhandled requests from the same user are regarded as the box unused, and therefore should be taken out of the request queue. We will demonstrate this in docs later and add some further information to it. A lot of thanks for your report.

Charles Yu 2022-11-3 19:11:23 HKT

I see. Then this issue is resolved, I'll close it. Thanks a lot.

Bug-00009

Title: Existing client cannot be correctly searched
Status: Resolved
Alias: Client cannot be searched
Product: Summer storage management system
Component: Admin-end
Version: 3.0
Platform: PC Mac OS
Importance: High Critical
Assignee: Yu ZHOU
Reported: 2022-11-3 08:12:23 HKT by Jacky Mo

Jacky Mo 2022-11-3 08:12:23 HKT

Describe the bug:
When I login the system and verified the client account status, I could get the its info even I know this account had been legally registered.

Steps to reproduce the bug:
1. pull down the latest version of the program from github.
2. go the xBox/src/app folder, switch to the "Main.java" file.
3. run the "Main.java" file.
4. register and login client account, request rentables on the client-end interface.
5. register and login admin account, confirm payment on the admin-end interface. Click search client button and input the client account email previously registered.

Expected result:
On the admin-end interface, the client account should be output correctly with all related rentables information.

Actual result:
As in the snapshot, there is nothing on the console but errors reported after I clicked on the search client button.
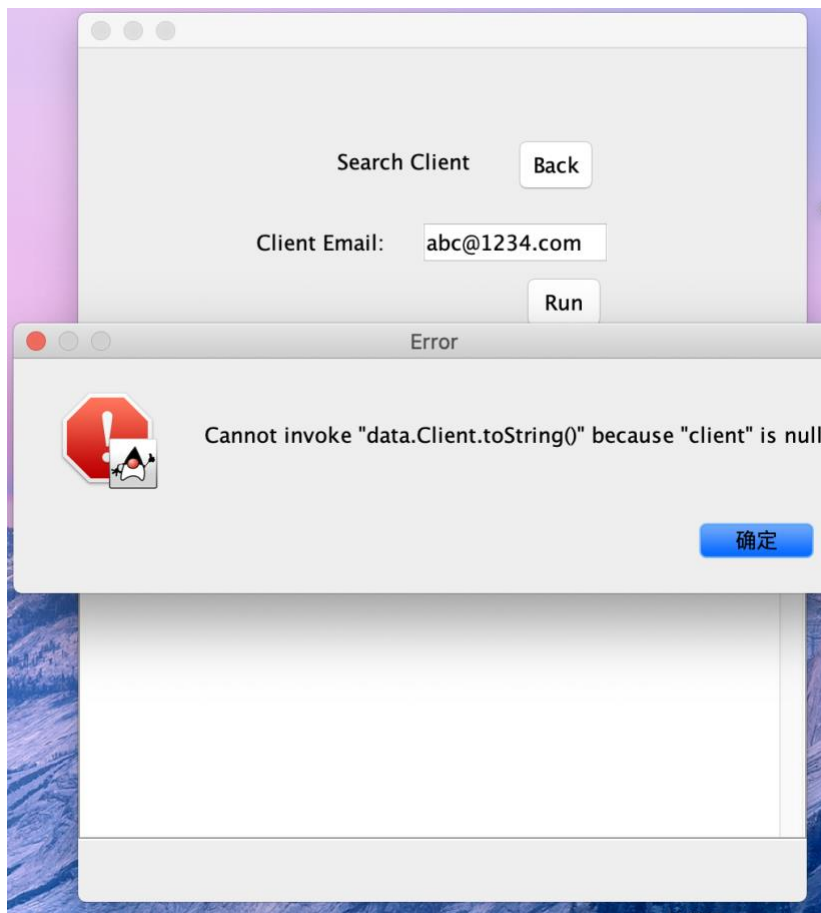
Environment:
OS: ubuntu 22.04
IDE: BlueJ 5.1.0
Version: 3.0
OpenJDK 17

Screenshot:

Yu ZHOU 2022-11-3 11:21:25 HKT

Hi Jacky, your reported bug is due to the corruption of the database JSON file somehow, we suggest you update your JSON configs, delete the old JSON files and recreate the JSON file. See if it works, thanks.

Jacky Mo 2022-11-4 09:11:23 HKT

After I update my JSON version, the system seems to be able to work, thanks a lot.

Bug-00010

Title: rentable status is unexpectedly modified without payment
Status: Resolved
Alias: misrecorded payment status
Product: Summer storage management system
Component: Admin-end
Version: 3.0
Platform: PC Mac OS
Importance: High Critical
Assignee: Yu ZHOU
Reported: 2022-11-3 15:31:31 HKT by Alan Zhao

Alan Zhao 2022-11-3 15:31:31 HKT

Describe the bug:
When I login the system and verified the client account status, I could get the its info even I know this account had been legally registered.

Steps to reproduce the bug:
1. pull down the latest version of the program from github.
2. go the xBox/src/app folder, switch to the "Main.java" file.
3. run the "Main.java" file.
4. register and login client account, request rentables on the client-end interface.
5. repeat step 4 to produce several accounts and to request rentables and store part of them.
6. register and login admin account, confirm partial payment on the admin-end interface.

Expected result:
On the admin-end interface, only the rentables with proper payment should be labelled with paid when being output on the console.

Actual result:
As in the snapshot, some unpaid transactions were also marked as paid after I clicked on the summary record button.

Environment:
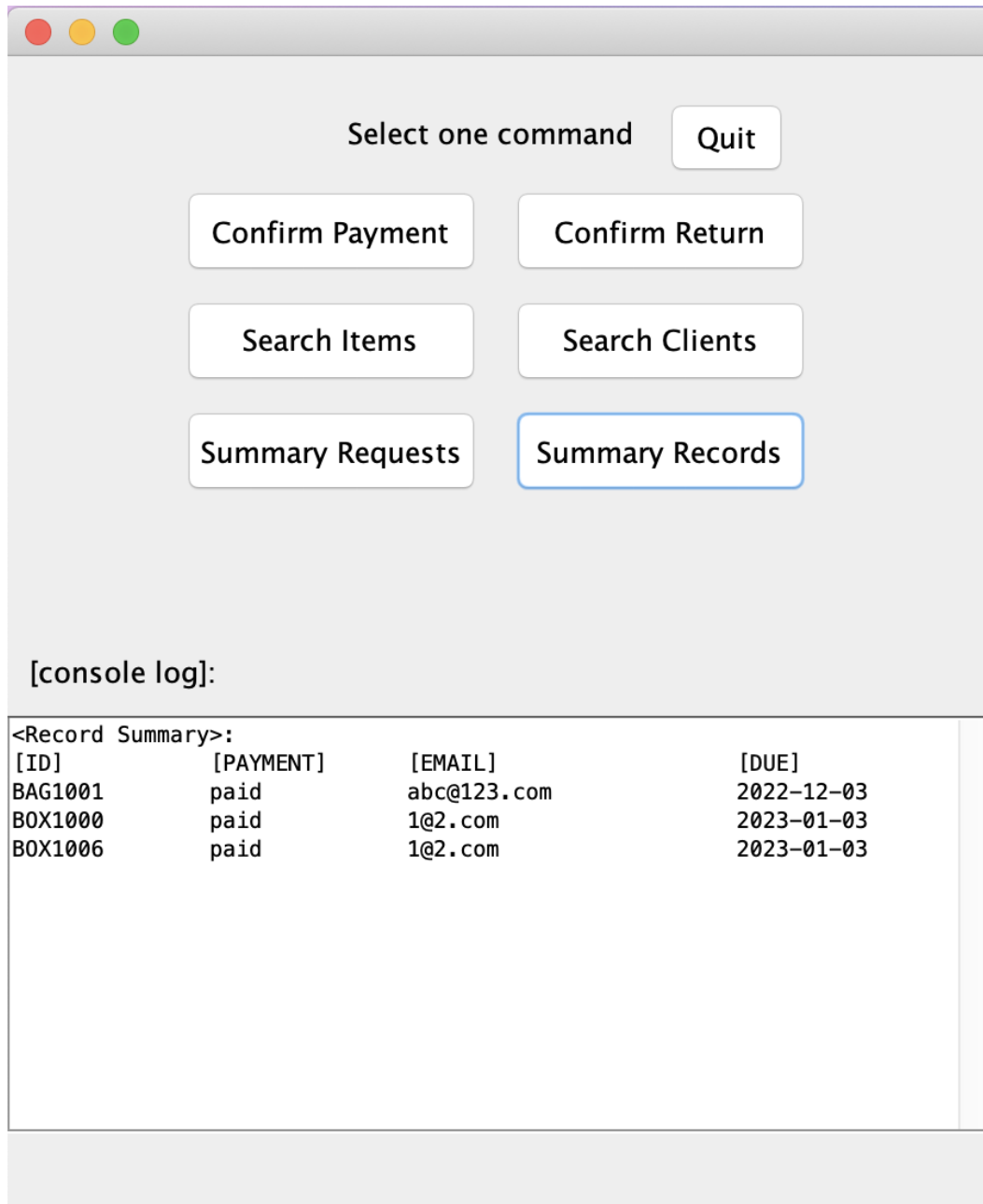OS: MacOS Catalina 10.15.7
IDE: Eclipse 2022-09
Version: 3.0
OpenJDK 17

Screenshots:


```
[console log]:

<Record Summary>:
[ID]            [PAYMENT]       [EMAIL]                 [DUE]
BAG1001         paid            abc@123.com             2022-12-03
BOX1000         paid            1@2.com                 2023-01-03
BOX1006         paid            1@2.com                 2023-01-03
```

Yu ZHOU 2022-11-4 16:33:22 HKT

Hi Alan, thanks for your reporting, it is indeed a problem after we checked our system code. We have further updated our system code on git hub, you may check whether there are any other issues. Thanks.

Alan ZHAO 2022-11-5 11:12:32 HKT

Hi Yu, that bug is proper fixed, thanks for your effort.

Bug-00011

Title: The system collapses when opening the second program
Status: Resolved
Alias: Failure in multi-thread environment
Product: Summer storage management system
Component: Client/-end
Version: 3.0
Platform: PC Mac OS
Importance: High Critical
Assignee: Xingchen SHA
Reported: 2022-11-21 13:21:11 HKT by Vincent Chaw

Vincent Chaw **2022-11-21 13:21:11 HKT**

Describe the bug:
When I try to use the system with another account at the same time, I find my first program suddenly collapse although all the previous actions are recorded.

Steps to reproduce the bug:
1. pull down the latest version of the program from github.
2. go the xBox/src/app folder, switch to the "Main.java" file.
3. run the "Main.java" file.
4. register and login client account, request rentables on the client-end interface.
5. Without finishing the first program, run the "Main.java" file again.
6. the first program collapse and find that the previous actions are recorded in the second program.

Expected result:
Multiple programs should be able to run at the same time.

Actual result:
Each user can only handle one program at a time.

Environment:
OS: MacOS Catalina 10.15.7
IDE: IntelliJ IDEA 2022.1
Version: 3.0
OpenJDK 17

Xingchen SHA 2022-11-2 9:31:1 HKT

Hi Vincent, thank you for telling us this issue. We have solved this bug in the latest version. You can update your program by downloading the latest version from github. Now users should be able to run parallel programs at the same time.

Vincent Chaw 2022-11-03 12:38:55 HKT

Thank you for your reply. I updated my system and find the problem is resolved.