

CS3343 Software Design

Bug Report

Group 12

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1 Introduction

When the program is abnormal while testing, the testers will log the information in the Dropbox Paper, and after all, all the bug fixes and issues raised will be included in this Bug Report.

2 Bug Repository

Dropbox Paper is the platform we used for logging bugs or abnormalities found.

In the Dropbox Paper, we created a paper named Bug Fix Record. Inside the paper, we created a table with categories highlighted. All the important items are marked inside the Bug Fix Record, and after the bug fixing period, the finished items will be summarized in the Bug Report.

Bug Fix Record								
Assigned Track Number	Report Date	Module	Title	Description + Steps to reproduce	Severity Level	Assigned to	Issue Status	Comments from Developer
C1	14 Nov	Customer	<input checked="" type="checkbox"/> Wrong Numbering-at printing-official orders	<p>After confirming the order, the official orders printed out has a constant numbering. It should be incremented by 1 every time.</p> <pre>Official Orders: [1] Turkey [2] Killa-Of-Lish [1] Beef [2] Pork [1] Beef-Egg-Burger</pre> <p>Steps to reproduce bug:</p> <ol style="list-style-type: none">1. Login2. Choose Dine-in3. Number of people: 114. Choose Walk in5. Choose Restaurant 1 (PepperLunch)6. Order dish: 1,2,3,17. Confirm order: true	Critical	CHENG Yin	Resolved	Problem due to the hashmap used does not accept duplicated key and value. An alternative hashmap from Google Guava called Multimap is used to replace Hashmap.
G1	13 Nov	Reservation, Admin	<input checked="" type="checkbox"/> Table-Sorting should-be sorted-by capacity-then table-ID:	<pre>Currently, the admin adds new tables in random orders with random capacities, the tables are not sorted. Tables should be sorted by capacity and then table ID.</pre> <p>Steps to reproduce</p> <ol style="list-style-type: none">1. log in to the Admin account2. Add new tables randomly	Minor	LUO Peiyuan	Resolved	Revised algorithm.

Update

3 Guidelines for Bug Reporting

There are important fields that testers must include in the Bug Fix Record; they are categories, titles, descriptions, steps to reproduce, and severity levels.

After the programmers receive the bugs raised in the Bug Fix Record, they will check if it is their responsibility for the classes. If they are responsible for that operation, they will write their names in the “Assigned” column and start working on it.

After checking and working on the problems raised by the testers, the developers will jot down the issue's status. And when finished, the developers should comment on what is leading to the bug and how they fix it to aid the bug fix if the problem happens again in the future.

Important Components of a bug report to be inputted by the tester:

- Title
- Report Date
- Module
- Description
- Steps to reproduce
- Severity Level

Categories of Issues:

Category	Description
General	Bugs or abnormalities that do not belong to any of the admin-related, merchant-related, or customer-related issues.
Admin-related	Bugs or abnormalities that belong to the admin module.
Merchant-related	Bugs or abnormalities that belong to the merchant module.
Customer-related	Bugs or abnormalities that belong to the customer module.

Severity Levels:

Priority Level	Description
Minor	Typos etc., that do not affect the system
Moderate	Wrong output, will not interrupt the system running
Major	Works, but it is not the favorable behavior of the system
Critical	Unable to work and will interrupt system running

Important Components of a bug report to be inputted by the developer:

- Assigned Developer
- Comment from Developer
- Issue Status

Issue Status	Description
Open	After the bug has been raised from testers.
In Progress	After the bug has been assigned to a developer.
Resolved	After the developer has finished fixing the bug.
Closed	After checking the fixed bug by the tester.
Reopened	If the same problem remains from the resolved issue.

4 Bug Reports

4.1 General

Issue #G1

Title:	Table Sorting should be sorted by capacity, then table ID.
Reported Date:	1 November 2022
Severity Level	Moderate
Module:	Admin, Reservation
Assigned To:	LUO Peiyuan
Status:	Resolved

Problem Description:

```
Table for tomorrow reservation and available time slots:
2-Seats Table with ID of 1 is available tmr for the timeslots: 00:00-23:59
2-Seats Table with ID of 2 is available tmr for the timeslots: 00:00-23:59
2-Seats Table with ID of 3 is available tmr for the timeslots: 00:00-23:59
2-Seats Table with ID of 4 is available tmr for the timeslots: 00:00-23:59
2-Seats Table with ID of 5 is available tmr for the timeslots: 00:00-23:59
4-Seats Table with ID of 6 is available tmr for the timeslots: 00:00-23:59
4-Seats Table with ID of 7 is available tmr for the timeslots: 00:00-23:59
4-Seats Table with ID of 8 is available tmr for the timeslots: 00:00-23:59
8-Seats Table with ID of 9 is available tmr for the timeslots: 00:00-23:59
8-Seats Table with ID of 10 is available tmr for the timeslots: 00:00-23:59
2-Seats Table with ID of 11 is available tmr for the timeslots: 00:00-23:59
8-Seats Table with ID of 12 is available tmr for the timeslots: 00:00-23:59
4-Seats Table with ID of 13 is available tmr for the timeslots: 00:00-23:59
```

Currently, If the admin adds new tables in random orders with random capacities, the tables are not sorted. Tables should be sorted by capacity and then table ID.

Steps to reproduce the bug:

1. log in to the Admin account
2. Add new tables randomly
3. Logout
4. Log in to the Customer account
5. Choose reservation

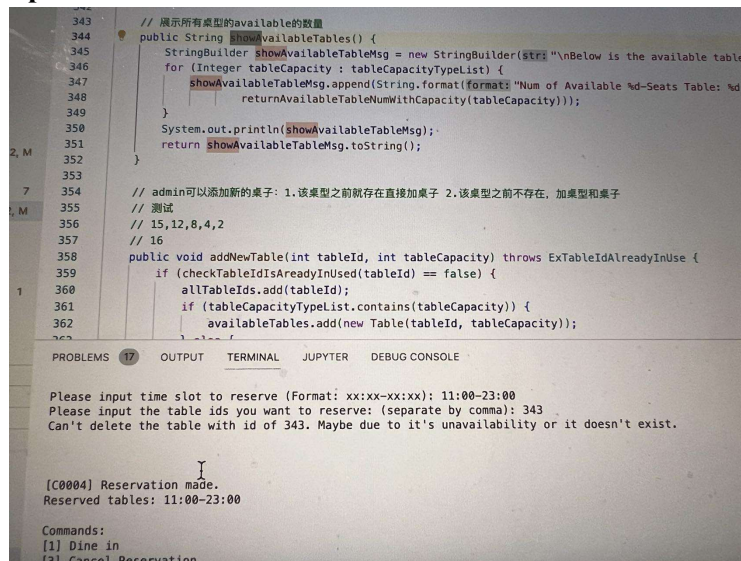
Comment By Developer:

Revised with collections sorting, changed from `Collections.sort(copyOfAvailableTables);` to `Collections.sort(all, Collections.reverseOrder());`

Issue #G2

Title:	Table ID does not exist but is still being printed
Reported Date:	7 November 2022
Severity Level:	Minor
Module:	Customer, Table
Assigned To:	SONG Tao
Status:	Resolved

Problem Description:



```
343 // 展示所有桌型的available的数量
344 public String showAvailableTables() {
345     StringBuilder showAvailableTableMsg = new StringBuilder("");
346     for (Integer tableCapacity : tableCapacityTypeList) {
347         showAvailableTableMsg.append(String.format(format, "Num of Available %d-Seats Table: %d \n",
348             returnAvailableTableNumWithCapacity(tableCapacity)));
349     }
350     System.out.println(showAvailableTableMsg);
351     return showAvailableTableMsg.toString();
352 }
353
354 // admin可以添加新的桌子: 1.该桌型之前就存在直接加桌子 2.该桌型之前不存在, 加桌型和桌子
355 // 测试
356 // 15,12,8,4,2
357 // 16
358 public void addNewTable(int tableId, int tableCapacity) throws ExTableIdAlreadyInUse {
359     if (checkTableIdsAlreadyInUsed(tableId) == false) {
360         allTableIds.add(tableId);
361         if (tableCapacityTypeList.contains(tableCapacity)) {
362             availableTables.add(new Table(tableId, tableCapacity));
363         }
364     }
365 }
```

PROBLEMS 17 OUTPUT TERMINAL JUPYTER DEBUG CONSOLE

Please input time slot to reserve (Format: xx:xx-xx:xx): 11:00-23:00
Please input the table ids you want to reserve: (separate by comma): 343
Can't delete the table with id of 343. Maybe due to it's unavailability or it doesn't exist.

[C0004] Reservation made.
Reserved tables: 11:00-23:00

Commands:
[1] Dine in
[3] Cancel Reservation

Table ID 343 does not exist, but I get this printed: “Can’t delete the table with id of 343. Maybe due to its unavailability, or it doesn’t exist.”

However, it should not output table id 343 since the table id does not exist.

Steps to reproduce the bug:

1. Log in to the Customer account
2. Choose reservation
3. Input random time slot
4. Input table ID that does not exist

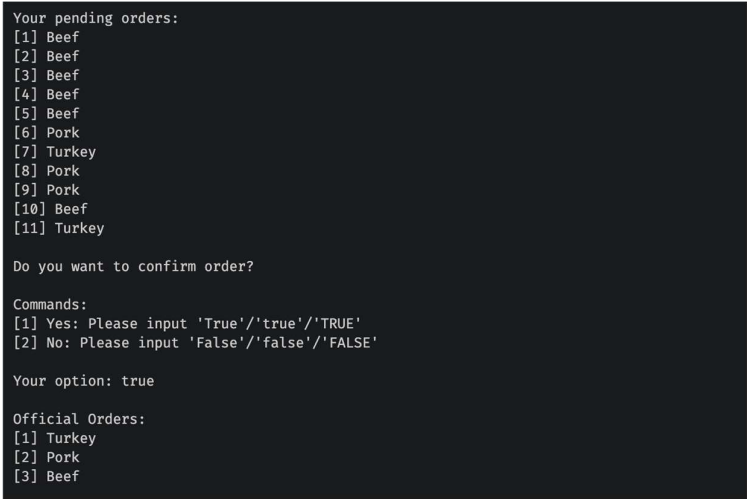
Comment By Developer:

Revised the wording of the output.

Issue #G3

Title:	Need to add confirmation check in registering account
Reported Date:	7 November 2022
Severity Level:	Major
Module:	Registration
Assigned To:	CHENG Yin
Status:	Resolved
Problem Description: Require a confirm function in register account Else random input can create an account. Current register process: <div><pre>List of Active Accounts: PepperLunchWorker M0004 KFCWorker M0001 McDonaldWorker M0002 TamJaiWorker M0003 yinch33 C0001 admin A0001 ta123 C0002 weddu2 C0003 Commands: [1] Login [2] Register [3] Delete Account Please select your operation: 2 Please choose the type of account to register [1 Customer 2 Merchant 3 Cancel]: 1 Please input the username: test Please input the password: t123 Registration Completed. Please return to login.</pre></div>	
Comment By Developer: A <i>confirmToRegister</i> function in <i>CommandAccountManagementRegister</i> is added when registering a customer or merchant account. Only when the user confirms to register, the respective accounts will be registered.	

Issue #G4

Title:	Error! Official Order did not accept duplicate dish
Reported Date:	8 November 2022
Severity Level:	Critical
Module:	Customer, Dish
Assigned To:	CHENG Yin
Status:	Resolved
Problem Description: Official Order should accept duplicate dish 	
Steps to reproduce the bug: Enter the system as a Customer, use dine in operation and take orders in a restaurant. Then order the same dish more than one time.	
Comment By Developer: HashMap used is replaced by Multimap to support duplicate keys.	

Issue #G5

Title:	Table allocation that does not meet the requirements
Reported Date:	9 November 2022
Severity Level:	Critical
Module:	Customer, Table
Assigned To:	LUO Peiyuan
Status:	Resolved
Problem Description: <div><pre>Table(s) for tomorrow reservation and available time slots: 4-Seats Table with ID of 0 is available tmr for the timeslots: 00:00-23:59 4-Seats Table with ID of 1 is available tmr for the timeslots: 00:00-23:59 Successfully add table with ID of 3, capacity of 5 Your arranged tables are: [1] [5-Seats] Tables [1] [4-Seats] Tables</pre></div> <p>When eight customers are inputted as the number of customers to dine in, the system gives out Two 4-seat tables and One 5-seat table for the table arrangement.</p> <p>When eight customers come to dining, it is better to allocate two 4-seat tables.</p>	
Steps to reproduce the bug: <div><pre>@Test public void test05() throws ExTableIdAlreadyInUse, ExPeopleNumExceedTotalCapacity { tb.addNewTable(3, 5); int result = tb.arrangeTableAccordingToNumOfPeople(8).get(0); assertEquals(1, result); }</pre></div>	
Comment By Developer: <p>In TableManagement, <i>arrangeTableAccordingToNumOfPeople</i> is revised to <i>getTableArrangementResult</i>.</p>	

Issue #G6

Title:	The table id is not unique
Reported Date:	10 November 2022
Severity Level:	Major
Module:	Admin, Table
Assigned To:	LUO Peiyuan
Status:	Resolved

Problem Description:

```
<terminated> testing1 [JUnit] G:\eclipse\64bit\202203R\plugins\org.eclipse.justj.o
Successfully add table with ID of 0, capacity of 4
Successfully add table with ID of 0, capacity of 4

Below is the available tables:
Num of Available 4-Seats Table: 2
```

Same table id being added twice. It should only be added once.

Steps to reproduce the bug:

```
public class testing1 {
    TablesManagement tb = TablesManagement.getInstance();
    @Test
    public void test01() throws ExTableIdAlreadyInUse {
        tb.addNewTable(0, 4);
        tb.addNewTable(0, 4);
        String correct = "\nBelow is the available tables: \n"+ "Num of Available 4-Seats Table: 1 \n";
        String result = tb.showAvailableTables();
        assertEquals(correct, result);
    }
}
```

Comment By Developer:

Added *checkTableIdIsAlreadyInUsed* function in *addNewTable* to prevent the same table ID from being added twice.

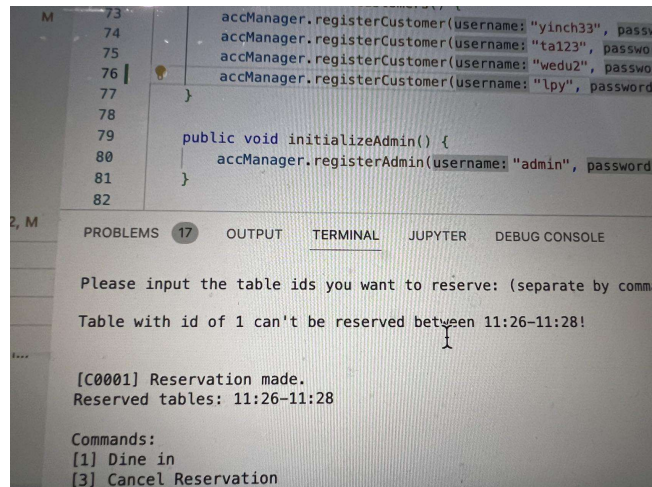
Issue #G7

Title:	Reservation Time Slot length does not meet the requirements
Reported Date:	11 November 2022
Severity Level:	Moderate
Module:	Customer, Reservation
Assigned To:	SONG Tao
Status:	Resolved

Problem Description:

Reservation should have time restriction:

Cannot reserve time slot less than half an hour or more than 2 hours



The screenshot shows a Java IDE with a code editor and a terminal. The code editor displays a class with methods for registering customers and initializing an admin. The terminal shows the output of a program, including a prompt for table IDs, an error message for an invalid reservation time slot, and a successful reservation confirmation.

```
73 accManager.registerCustomer(username: "yinch33", password: "123456")
74 accManager.registerCustomer(username: "ta123", password: "123456")
75 accManager.registerCustomer(username: "wed2", password: "123456")
76 accManager.registerCustomer(username: "lpy", password: "123456")
77 }
78
79 public void initializeAdmin() {
80     accManager.registerAdmin(username: "admin", password: "123456")
81 }
82
```

PROBLEMS 17 OUTPUT TERMINAL JUPYTER DEBUG CONSOLE

Please input the table ids you want to reserve: (separate by comma)

Table with id of 1 can't be reserved between 11:26-11:28!

[C0001] Reservation made.
Reserved tables: 11:26-11:28

Commands:
[1] Dine in
[3] Cancel Reservation

New Update: need to print the error message: cannot reserve timeslot less than half hour or more than 2 hours

Steps to reproduce the bug:

Enter the system as a Customer and go to the reservation page. Enter a time slot that the range is lesser than 30 mins or more than 2 hours

Comment By Developer:

Added restriction to the time limit for reservation.

Issue #G8

Title:	Table capacity cannot be removed when removing table
Reported Date:	16 November 2022
Severity Level:	Critical
Module:	TablesManagement
Assigned To:	LUO Peiyuan
Status:	Resolved

Problem Description:

```
// @see *1.x51.2[table-ids=available 2.2[table-ids,available 3.2[table-ids *20-a-12*]200*
public void removeTable(int tableId) throws ExTableNotExist {
    Table t = returnTableAccordingToTableId(tableId);
    if (t != null) {
        if(allTableIds.contains(tableId)) {
            allTableIds.remove(tableId);
        }
        System.out.printf("kkk");
        availableTables.remove(t);
        System.out.printf("kkk");
        if (returnTableNumWithTableCapacity(t.getTableCapacity()) == 0) {
            removeTableCapacity(t.getTableCapacity());
        }
        System.out.printf("bbb");
        System.out.printf("Successfully delete the table with id of %d \n", tableId);
        return;
    }
    throw new ExTableNotExist(tableId);
}
```

Integer ArrayList can not directly remove the value.

Steps to reproduce the bug:

```
@Test
public void test04() throws ExTableNotExist {

    tb.removeTable(2);
    //this result format is wrong
    String result = "\nTable for tomorrow reservation and available time slots: \n" +
        "4-Seats Table with ID of 1 is available tmr for the timeslots: 00:00-23:59 \n";

    assertEquals(result, tb.showReservationTable());
}
```

Comment By Developer:

Fixed.

Issue #G9

Title:	Wrong return value for table reservation
Reported Date:	19 November 2022
Severity Level:	Moderate
Module:	Table Management
Assigned To:	LUO Peiyuan
Status:	Resolved
Problem Description: The function reserveTableAccordingToTimeslot() should return a boolean value when the timeslot has already been booked.	
Steps to reproduce the bug: <pre>@Test public void test12() throws ExTableNotExist, ExTimeSlotAlreadyBeReserved { cs3343_project.TimeSlot ts = new cs3343_project.TimeSlot("12:30:00", "13:00:00", "0"); boolean result = tb.reserveTableAccordingToTimeslot(0,ts); assertEquals(false, result); }</pre>	
Comment By Developer: Fixed.	

Issue #G10

Title:	Exception handling in Admin setOpenCloseHour
Reported Date:	20 November 2022
Severity Level:	Moderate
Module:	Admin, Time management
Assigned To:	SONG Tao
Status:	Resolved
Problem Description: In admin's set opening hours operation, when input the wrong time format to change time, the system outputs the null error and should be handled with exception handling.	
Steps to reproduce the bug: <pre>[2] Check Customer's Orders [3] Check Customer's Reservation [4] Add Restaurant [5] Remove Restaurant [6] Add Table [7] Remove Table [8] Logout Please select your operations: 1 Please input new opening hour: 9:00 Please input new closing hour: 6:00 Cannot load from object array because "temp" is null ----- Commands: [1] Set Food Court's Opening and Closing Time [2] Check Customer's Orders [3] Check Customer's Reservation [4] Add Restaurant</pre>	
Comment By Developer: Exception handling is added.	

4.2 Customer-related issues

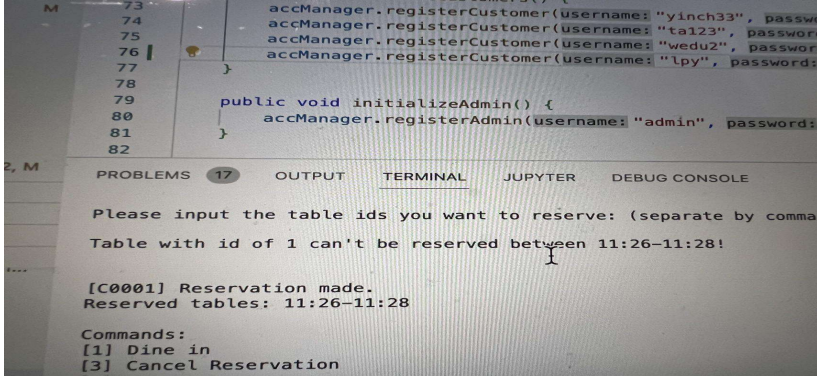
Issue #C1

Title:	Wrong Numbering at printing official orders
Reported Date:	1 November 2022
Severity Level:	Critical
Module:	Customer
Assigned To:	CHENG Yin
Status:	Resolved
Problem Description: After confirming the order, the official orders printed out has a constant numbering. It should be incremented by one every time. <div><code>Official Orders: [1] Turkey [1] Filet-O-Fish [1] Beef [1] Pork [1] Beef-Egg-Burger</code></div>	
Steps to reproduce the bug: <ol style="list-style-type: none">1. Login2. Choose Dine-in3. Number of people: 114. Choose Walk in5. Choose Restaurant 1 (PepperLunch)6. Order dish: 1,2,3,17. Confirm order: true	
Comment By Developer: Corrected the counting inside loop.	

Issue #C2

Title:	No option to exit reservation once executed
Reported Date:	8 November 2022
Severity Level:	Moderate
Module:	Customer, Reservation
Assigned To:	CHENG Yin
Status:	Closed
Problem Description: There is no option to exit the reservation prompt when I executed it. It keeps prompting me to input the time string if my format is wrong. It should exit when I input “cancel”.	
Steps to reproduce the bug: <ol style="list-style-type: none">1. Login2. Choose reservation	
Comment By Developer: Not count into consideration	

Issue #C3

Title:	Wrong output for reservation
Reported Date:	11 November 2022
Severity Level:	Major
Module:	Customer, Reservation
Assigned To:	SONG Tao
Status:	Resolved
<p>Problem Description:</p> <p>During every loop in running the customer's module, if there exists reservation for customers, the output should be a reminder, not "Reservation made". Only when the reservation is finished for the customer, it will output "Reservation made".</p> <p>Cannot reserve between 11:26-11:28, but still, output "reservation made"</p> 	
<p>Steps to reproduce the bug:</p> <ol style="list-style-type: none">1. Log in as customer2. Select to reserve3. Input 11:26-11:28 as time slot4. Input table id 1	
<p>Comment By Developer:</p> <p>Corrected output phrase set for finishing reservation.</p>	

Issue #C4

Title:	Infinite Loop in exiting queue
Reported Date:	11 November 2022
Severity Level:	Critical
Module:	Customer, Queue
Assigned To:	CHENG Yin
Status:	Resolved

Problem Description:

Infinite loop when trying to select to leave when needing to queue

```
Below is the available tables:
Num of Available 8-Seats Table: 0
Num of Available 4-Seats Table: 0
Num of Available 2-Seats Table: 4

Please input the number of people: 8

Your arranged tables are:
[1] [8-Seats] Tables

For default arrangements, you still need to wait for:
[1] [8-Seats] Table(s)
The Optimized Recommended Arrangements are:
[4] [2-seats]

Commands:
[1] Queue
[2] Walk in with recommended arrangement
[3] Leave

Please choose your operation: 3

Commands:
[1] Queue
[2] Walk in with recommended arrangement
[3] Leave

Please choose your operation: 3

Commands:
[1] Queue
[2] Walk in with recommended arrangement
[3] Leave

Please choose your operation: 3
```

Steps to reproduce the bug:

1. Login as customer
2. Select to dine in
3. Input number greater than the max capacity of all tables, i.e., 32.
4. Choose to leave when prompted to queue or leave.

Comment By Developer:

Corrected the output phrase set for *recommendedArrangement*.

Issue #C5

Title:	Payment method cannot be shown
Reported Date:	15 November 2022
Severity Level:	Critical
Module:	Customer, Payment
Assigned To:	ZHOU Junchen
Status:	Resolved
Problem Description: Payment method name error When payment is complete, the payment method is a string of gibberish.	
Steps to reproduce the bug: <pre>List of Merchants of this restaurant: [1] M0003 TamJaiWorker [2] M0004 TamJaiWorker2 [3] M0005 TamJaiWorker1 Input staff MId: M0003 Customer Name: yinch33 Customer ID: C0001 Bill no. is: B0001 Ordered Dishes: [1] Lettuce-Mixian [2] Pork-Mixian You have completed payment with Payment@6df97b55. Thank you! Your bill number is: B0001 Commands: [1] Alipay [2] WeChat Pay [3] Cash</pre>	
Comment By Developer: Used toString() method.	

Issue #C6

Title:	No need for a reminder for reservation if reservation not made
Reported Date:	15 November 2022
Severity Level:	Major
Module:	Reservation
Assigned To:	ZHOU Junchen
Status:	Resolved
Problem Description: If there is no reservation made, the program should not output the reservation reminder.	
Steps to reproduce the bug: Customer Reservation: <pre>Please select your operation: 2 Table(s) for tomorrow reservation and available time slots: 2-Seats Table with ID of 1 is available tmr for the timeslots: 00:00-23:59 2-Seats Table with ID of 2 is available tmr for the timeslots: 00:00-23:59 2-Seats Table with ID of 3 is available tmr for the timeslots: 00:00-23:59 2-Seats Table with ID of 4 is available tmr for the timeslots: 00:00-23:59 2-Seats Table with ID of 5 is available tmr for the timeslots: 00:00-23:59 2-Seats Table with ID of 17 is available tmr for the timeslots: 00:00-23:59 4-Seats Table with ID of 6 is available tmr for the timeslots: 00:00-23:59 4-Seats Table with ID of 7 is available tmr for the timeslots: 00:00-23:59 4-Seats Table with ID of 8 is available tmr for the timeslots: 00:00-23:59 4-Seats Table with ID of 15 is available tmr for the timeslots: 00:00-23:59 8-Seats Table with ID of 9 is available tmr for the timeslots: 00:00-23:59 8-Seats Table with ID of 10 is available tmr for the timeslots: 00:00-23:59 8-Seats Table with ID of 11 is available tmr for the timeslots: 00:00-23:59 Please input time slot to reserve (Format: xx:xx-xx:xx): 00:00-00:15 Please input the table ids you want to reserve: (separate by comma): 1,2,3 Table with id of 1 can't be reserved between 00:00-00:15! Table with id of 2 can't be reserved between 00:00-00:15! Table with id of 3 can't be reserved between 00:00-00:15! [C0001] Error: Reservation not made. ----- Reminder: You have a reserved for tomorrow: Commands: [1] Dine in [3] Cancel Reservation [5] Logout</pre>	
Comment By Developer: Revised.	

4.3 Merchant-related issues

Issue #M1

Title:	Merchant should not check customers' orders that do not belong to his/her restaurant
Reported Date:	2 November 2022
Severity Level:	Critical
Module:	Merchant
Assigned To:	CHENG Yin
Status:	Resolved

Problem Description:

In the merchant module, when choosing to check customers' orders, it printed a lot of dishes from orders that do not belong to the restaurant owned by the merchant. It should print the dish from orders that belong to the restaurant owned by the merchant only.

Steps to reproduce the bug:

```
Commands:
[1] Login
[2] Register
[3] Delete Account

Please select your operation: 1

Please input the username: KFCWorker
Please input the password: t123

You have succeeded in logging in the system.
UserId: M0001

Commands:
[1] Modify Menu
[2] Check Order
[3] Logout

Please select your operations: 2

Please input customer's id: C0001

Customer Name: yinch33
Customer ID: C0001
Bill no. is: B0001

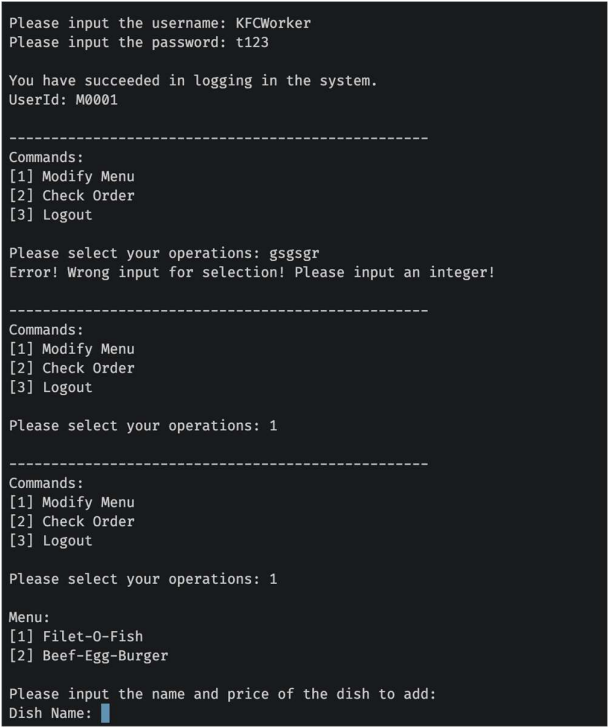
Ordered Dishes:
[1] Hot-Chocolate
[2] Latte
[3] Americano
[4] Crunchy-Ovaltine
[5] Hot-Chocolate

Commands:
[1] Modify Menu
[2] Check Order
[3] Logout
```

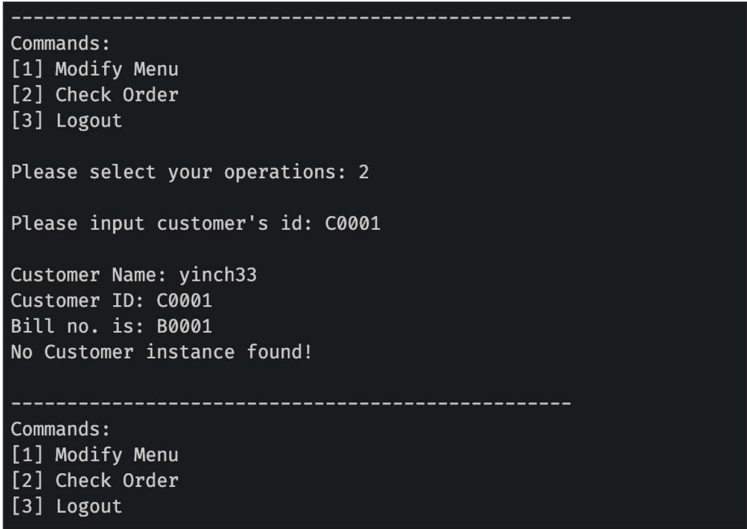
Comment By Developer:

A multimap is added to store the dish corresponding to the restaurant. A function *customerOrdersAccordingToRestaurant* is used to return the corresponding dish of the merchant.

Issue #M2

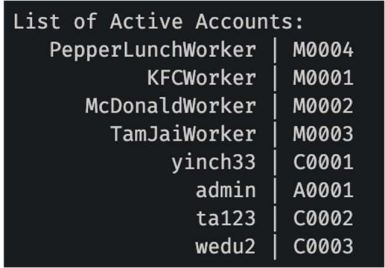
Title:	Wrong output for selection while choosing to modify menu.
Reported Date:	4 November 2022
Severity Level:	Major
Module:	Merchant
Assigned To:	CHENG Yin
Status:	Resolved
Problem Description: When going into the merchant's modify menu, should output choice to add dish, remove dish, or edit dish, instead of outputting modifying menu again. 	
Steps to reproduce the bug: <ol style="list-style-type: none">1. Login as Merchant2. Choose Modify Menu	
Comment By Developer: Corrected the output phrase set for modifying the menu.	

Issue #M3

Title:	Wrong Output for checking orders
Reported Date:	7 November 2022
Severity Level:	Minor
Module:	Merchant
Assigned To:	CHENG Yin
Status:	Resolved
Problem Description: Should be “This customer has no orders” not “No customer instance found” 	
Steps to reproduce the bug: <ol style="list-style-type: none">1. Log in to the merchant’s account2. Choose the operation [2] to check customers’ orders3. Input the customer ID of whom do not have orders made4. “No customer instance found” wordings are printed even when the customer id is printed out	
Comment By Developer: Wrong exception handling, revised to print out no orders found.	

4.4 Admin-related Issues

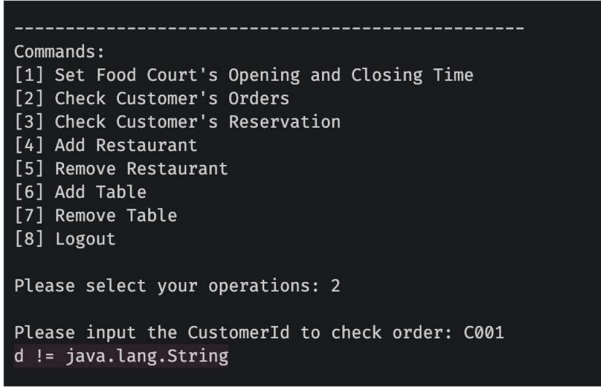
Issue #A1

Title:	Account List printed is not sorted
Reported Date:	28 October 2022
Severity Level:	Minor
Module:	Admin
Assigned To:	CHENG Yin
Status:	Resolved
Problem Description: As shown in the below screenshot, the active account list retrieved from admin module is not sorted by user ID. And the list's formatting is a bit chaotic. Please align to the left with the numbering, user ID, and username.	
	
Steps to reproduce the bug: At the start of the program.	
Comment By Developer: A sorting algorithm in <i>AccountManagement</i> is added. The sorting algorithm will first sort the prefix of the user ID in numerical order; then it will sort the id based on the last four digits.	

Issue #A2

Title:	Wrong output in admin module when checking customers' orders
Reported Date:	6 November 2022
Severity Level:	Minor
Module:	Admin
Assigned To:	CHENG Yin
Status:	Resolved
Problem Description: When running admin's operation to check customers' orders, there is the "Official orders" wording printed out even if there are no customers' orders returned. It should not print "official orders" when there are no customers' orders.	
Steps to reproduce the bug: <ol style="list-style-type: none">1. Log in to the admin's account2. Choose the operation to check customers' orders3. Input the customer ID of whom do not have orders made4. Only "Official Orders" wordings are printed	
Comment By Developer: Revised the output when there are no orders made. The revised version will print out "No orders made".	

Issue #A3

Title:	Wrong output for Exception Handling in Checking order
Reported Date:	13 November 2022
Severity Level:	Minor
Module:	Admin, Customer
Assigned To:	CHENG Yin
Status:	Resolved
Problem Description: 	
Should catch customer ID not found, not “d != java.lang.String”	
Steps to reproduce the bug: <ol style="list-style-type: none">1. Login as Admin2. Choose to check customers' orders3. Input customer id that do not exist.	
Comment By Developer: Added Exception handling to correct output if customer instance not found.	

End of Report