



5COSC019W Object Oriented Programming

Test Report

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CLI PART

Test Case Number	Test Case	Expected Output	Actual Output	Pass / Fail
1	Validate user input within the range	Correct value is returned and displays "Configuration complete!"	Correct value is returned and displays "Configuration complete!	Pass
2	Enter invalid input	Displays "Invalid input! Please enter a number." and prompts again	Displays "Invalid input! Please enter a number." and prompts again	Pass
3	Validate user input is not within range	Displays "Invalid input! Value must be between a minimum value and maximum value"	Displays "Invalid input! Value must be between a minimum value and maximum value"	Pass
4	Save configurations to JSON	JSON file created and saved configurations. Displays "Configuration saved to file_name"	JSON file created and saved configurations. Displays "Configuration saved to file_name"	Pass
5	Fail to save configurations to JSON	Display "Error saving configuration, the error message"	Display "Error saving configuration, the error message"	Pass
6	Load configurations from JSON file	Data loaded from file and Display "Configuration loaded from JSON". If it fails to load data, display "Error reading configuration"	Data loaded from file and Display "Configuration loaded from JSON". If it fails to load data, display "Error reading configuration"	Pass

7	Enter Invalid input for start	Display "Invalid command! Use 'start' or 'stop'" and prompt again	Display "Invalid command! Use 'start' or 'stop'" and prompt again	Pass
8	Enter "Start"	Run the threading part and display "System started."	Run the threading part and display "System started."	Pass
9	Enter Invalid input for stop	Display "Invalid command! Use 'start' or 'stop'"	Display "Invalid command! Use 'start' or 'stop'"	Pass
10	Enter "Stop"	Stop system and display "System stopped. Thanks for using our Ticket Management System! ". and save configurations to config.json	Stop system and display "System stopped. Thanks for using our Ticket Management System! ". and save configurations to config.json	Pass

Appendix for CLI part

Test Case Number	Picture
1	Configuration loaded from JSON.
	==== Ticket System Configuration ====
	Enter max ticket capacity: 6
	Enter ticket release rate (ms): 7000
	Enter customer retrieval rate (ms): 5000
	Configuration saved to config.json
	Configuration complete!
	=== Ticket System CLI ===
	Commands: start, stop
	>
2	"U:\Program Files\Java\juk-Zi\pin\java.exe"
	Configuration loaded from JSON.
	==== Ticket System Configuration ====
	Enter max ticket capacity: kk
	Invalid input! Please enter a number.
	Enter max ticket capacity: $\&$
	Invalid input! Please enter a number.
	Enter max ticket capacity: .
	Invalid input! Please enter a number.
	Enter max ticket capacity: 4k
	Invalid input! Please enter a number.
	Enter max ticket capacity:

```
3
            "C:\Program Files\Java\jdk-21\bin\java.exe" "-javaagen
            Configuration loaded from JSON.
            **=== Ticket System Configuration ====**
            Enter max ticket capacity: 2
            Invalid input! Value must be between 4 and 100.
            Enter max ticket capacity:
4
           Configuration loaded from JSON.
           **==== Ticket System Configuration ====**
           Enter max ticket capacity: 6
           Enter ticket release rate (ms): 7000
           Enter customer retrieval rate (ms): 5000
           Configuration saved to config.json
           Configuration complete!
           **=== Ticket System CLI ===**
           Commands: start, stop
6
            "C:\Program Files\Java\jdk-21\bin\java.exe" "-javaagen
            Configuration loaded from JSON.
            **=== Ticket System Configuration ====**
            **=== Ticket System CLI ===**
7
           Commands: start, stop
            > sta
           Invalid command! Use 'start' or 'stop'.
            Invalid command! Use 'start' or 'stop'.
           Invalid command! Use 'start' or 'stop'.
            Invalid command! Use 'start' or 'stop'.
```

8	Configuration complete! **== Ticket System CLI ===** Commands: start, stop > start System started. > Customer C1 is waiting found no tickets available. Pool is empty. Vendor V2 added a ticket. Ticket Details: Ticket Number = 2, Event Name= Cinema Event, Ticket Price= 250.0 Current tickets: 1 Vendor V1 added a ticket. Ticket Details: Ticket Number = 1, Event Name= Cinema Event, Ticket Price= 250.0 Current tickets: 2 Customer C1 purchased a ticket. Ticket Number = 2, Event Name= Cinema Event, Ticket Price= 250.0 Current tickets: 1
9	<pre>sto Invalid command! Use 'start' or 'stop'. > Vendor V1 added a ticket. Ticket Details: Ticket Number = 3, Event Name= Cin Vendor V2 added a ticket. Ticket Details: Ticket Number = 4, Event Name= Cinem</pre>
10	System stopped. Configuration saved to config.json Thanks for using our Ticket Management System! Process finished with exit code 0

Frontend And Backend

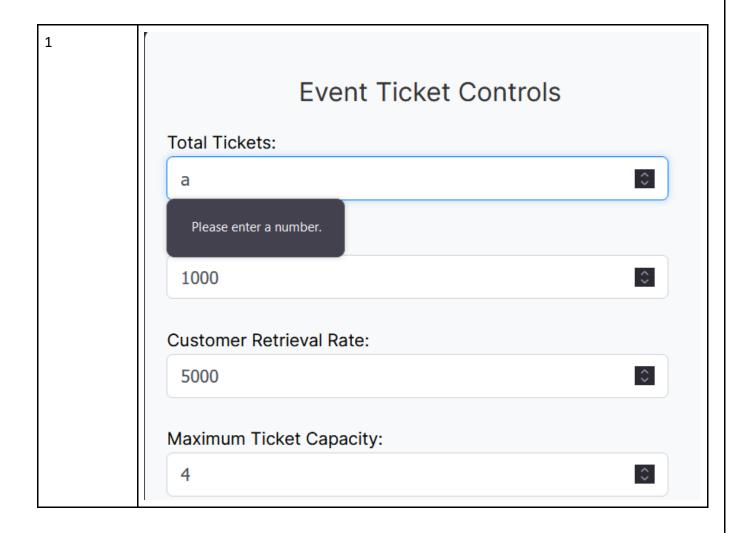
Test Case Number	Test Case	Expected Output	Actual Output	Pass / Fail
1	Enter invalid input	Display "Please enter a number"	Display "Please enter a number"	Pass
2	Maximum ticket capacity is not within the range	Display "Max Ticket Capacity must be between minimum value and maximum value."	Display "Max Ticket Capacity must be between minimum value and maximum value."	Pass
3	Failed to send configurations to the backend	Display "Failed to update configuration."	Display "Failed to update configuration."	Pass
4	Upload configurations to the backend	Display "Configurations saved successfully." And display "Configuration complete!" in the console.	Display "Configurations saved successfully." And display "Configuration complete!" in the console.	Pass
5	Press start button	Disable the start button and active stop button. Display "Ticket pool started." Start running threads in the backend.	Disable the start button and active stop button. Display "Ticket pool started." Start running threads in the backend.	Pass
6	Press reset button	Disable stop button and	Disable stop button and	Pass

		active start button. Display "Ticket pool reset." Keep running threads in the backend.	active start button. Display "Ticket pool reset." Keep running threads in the backend.	
7	Press stop button	Disable the stop button, active start button, and reset button. Display "Ticket pool stopped." Stop running threads in the backend.	Disable the stop button, active start button, and reset button. Display "Ticket pool stopped." Stop running threads in the backend.	Pass
8	Failed to load details from the backend in the Ticket Pool status section	Display "Failed to load ticket status."	Display "Failed to load ticket status."	Pass
9	Successfully load details from the backend in the Ticket Pool status section	Display Remaining tickets in the current thread count and maximum ticket capacity count	Display Remaining tickets in the current thread count and maximum ticket capacity count	Pass
10	Handle empty log display	Display "No transactions available"	Display "No transactions available"	Pass
11	Display transactions in the log display	Display Transaction details in the table and display transaction details in the console.	Display Transaction details in the table and display transaction details in the console.	Pass
12	Store configurations	Create a	Create a	Pass

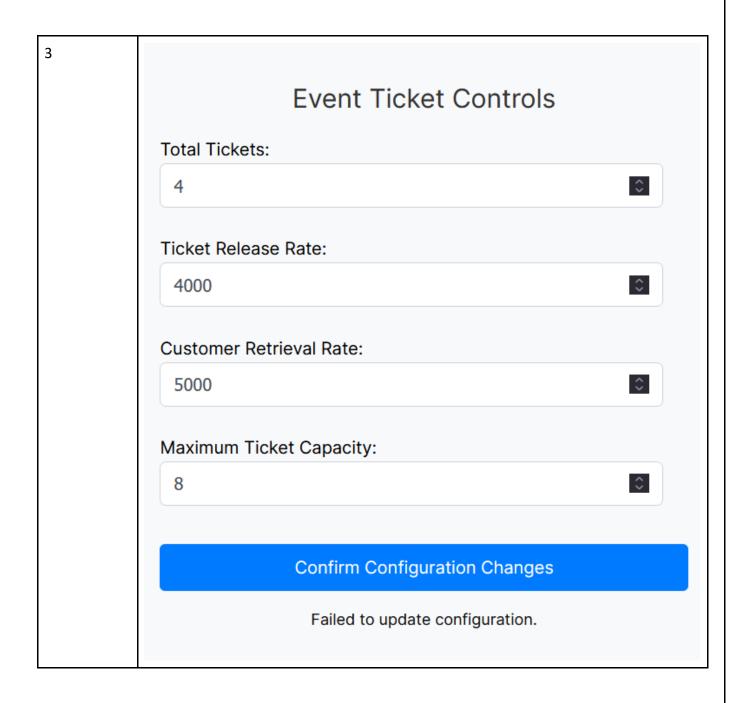
	in the Database	"configuration "table and update data.	"configuration "table and update data.	
13	Store tickets in the Database	Create a "ticket "table and update data.	Create a "ticket "table and update data.	Pass
14	Store transactions in the Database	Create a "transactions "table and update data.	Create a "transactions "table and update data.	Pass
15	Handle Configuration Rest API	200 OK	200 OK	Pass
16	Handle Control Panel Rest API	200 OK	200 OK	Pass
17	Handle Ticket Rest API	200 OK	200 OK	Pass
18	Handle Transaction Rest API	200 OK	200 OK	Pass

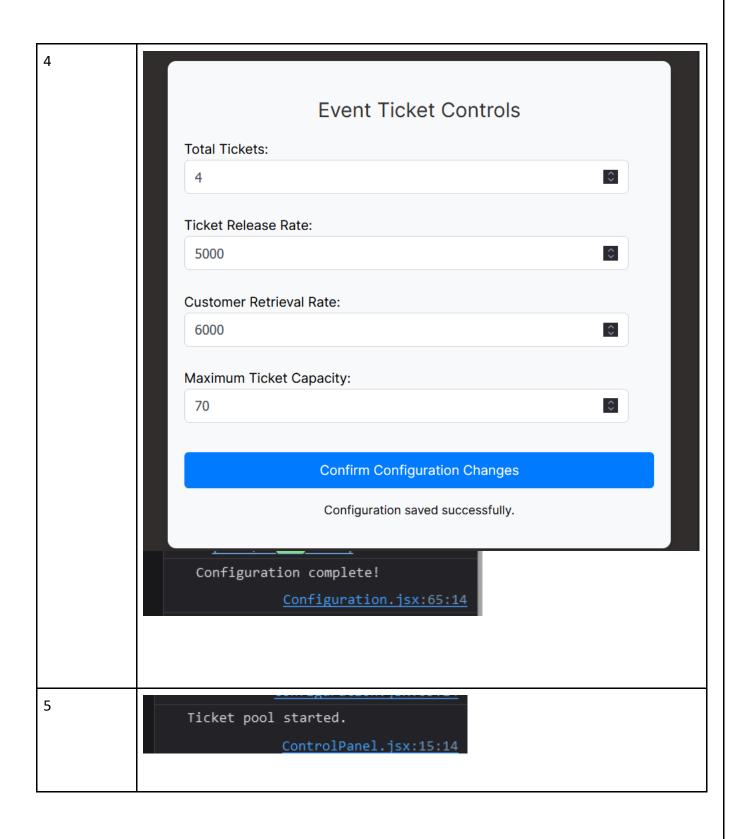
Appendix for Frontend and Backend

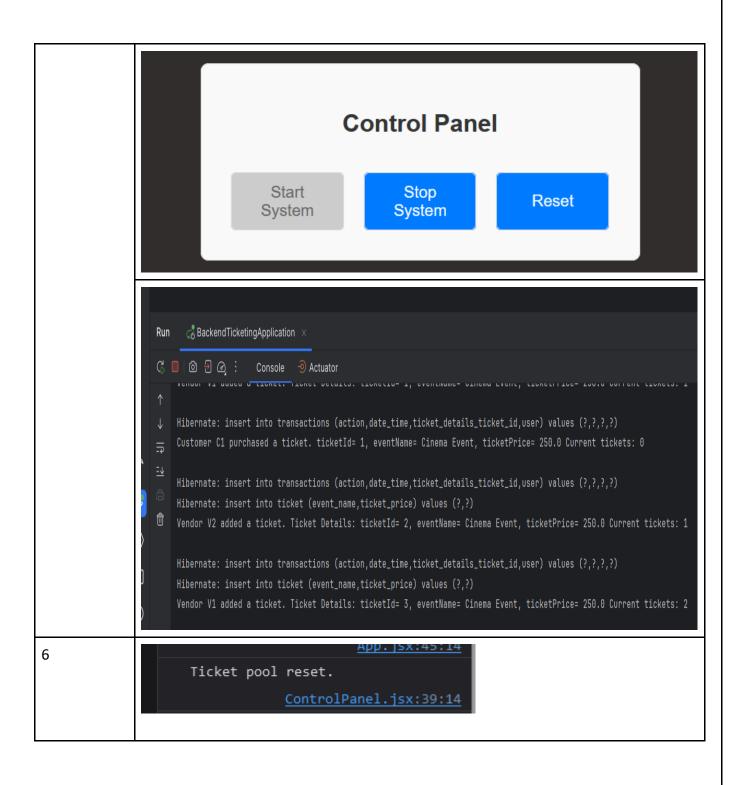
Test Case	Picture
Number	

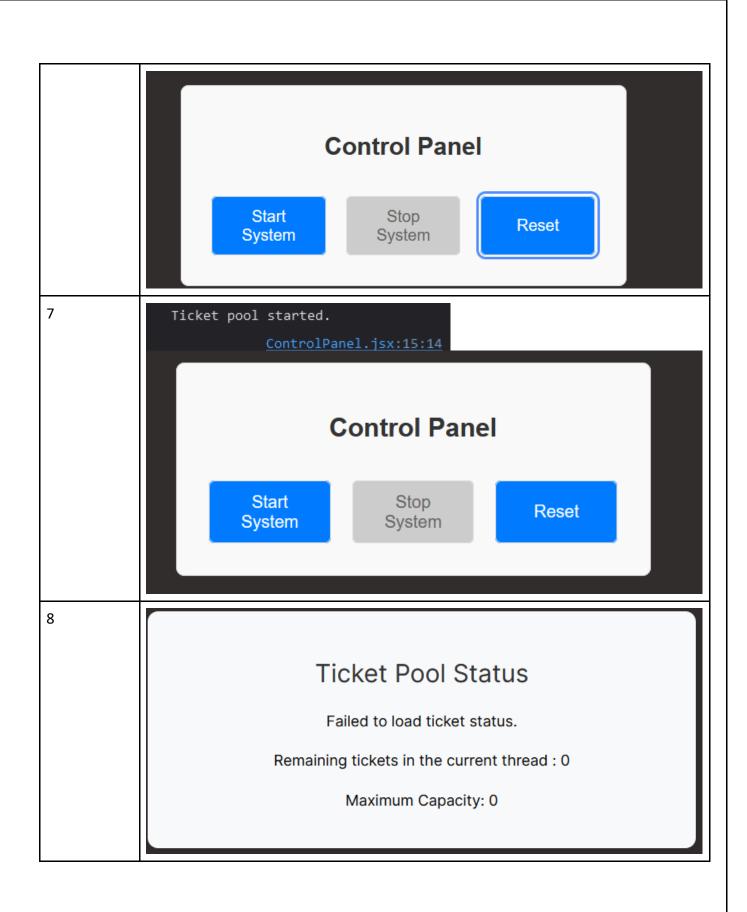


2 **Event Ticket Controls Total Tickets:** 8 Ticket Release Rate: 1000 **Customer Retrieval Rate:** 5000 Maximum Ticket Capacity: 4 **Confirm Configuration Changes** Max Ticket Capacity must be between 8 and 100.









Ticket Pool Status Remaining tickets in the current thread: 2 Maximum Capacity: 70 10 **Transaction Logs** No transactions available 11 **Transaction Logs** TRANSACTION ID ACTION DATE/TIME **USER** V1 Added Ticket 1 12/8/2024, 5:59:32 PM 2 V2 Added Ticket 12/8/2024, 5:59:32 PM V1 Added Ticket 3 12/8/2024, 5:59:32 PM 4 C1 Purchased Ticket 12/8/2024, 5:59:32 PM

V2

Added Ticket

5

12/8/2024, 5:59:32 PM

```
Fetched Transactions:
          ▼Array(130) [ {...}, {...}, {...},
         {...}, {...}, {...}, {...}, {...}, {...},
         {...}, ... ]
                   [0...99]
                   [100...129]
                       length: 130
                   \display="block" \text{\text{order} for the content of the co
                                                                                       App.jsx:45:14
Fetched Transactions:
 ▼Array(130) [ {...}, {...}, {...},
{...}, {...}, {...}, {...}, {...},
{..}. ]
         ▼[0...99]
                  0 Object { transactionID
                 1, user: "V1", action: "Added
                 Ticket", ... }
                  1 Object { transactionID:
                 2, user: "V2", action: "Added
                 Ticket", ... }
                  2: Object { transactionID:
                  3, user: "V1", action: "Added
                  3 Object { transactionID
                 4, user: "C1", action:
                  "Purchased Ticket", ... }
                   4 Object { transactionID:
                 5, user: "V2", action: "Added
                  Ticket", ... }
                   5: Object { transactionID:
                  6, user: "C1", action:
                  "Purchased Ticket", ... }
                   6 Object { transactionID:
                  7, user: "V1", action: "Added
```

