University of Westminster
Informatics Institute of Technology

Object Oriented Programming

5COSC019C.1

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Table of Contents

List of Figures

List of Tables

Test cases

Test case No.	Scenario	Test steps	Expected result	Outcome
GUI				
1	Verifying login	Open the application. Enter the email and password. Click the login button.	The user logged in to the system.	Pass
2	Access is given after registering	Registration of new users after filling in the form. Login into the system with user credentials. Access the system.	Users should register or log in to use the system	Pass
3	The vendor cannot add tickets when the ticket pool reaches maximum capacity	When the vendor tries to add tickets, the system checks the ticket pool capacity. If reached deny the vendor request.	The vendor should wait until the customer purchases tickets to add tickets.	Pass
4	The event has reached the maximum capacity	The customer tries to purchase tickets, and the vendor tries to add tickets. The requests of customers and vendors are denied.	A new event should be created to fulfill the requests of vendors and customers.	Pass
5	Real-time update of the ticket pool	A customer or a vendor sends requests. Check the available tickets in the ticket pool	Real-time updating of current tickets in the ticket pool.	Pass

6	Start/stop button	Admin navigates to the event-creating page. When the admin selects the start, vendors and customers can perform the tasks. When selecting stop, customer and vendor access are hidden.	Customers and vendors are unable to perform tasks according to start/ stop buttons.	Pass
7	Thread synchronization	The vendor adds tickets to the ticket pool. At the same time customer purchases tickets from the ticket pool.	Concurrent tasks are taking place without conflicting	Pass
8	One email per customer and vendor	A customer and a vendor register to the system. If they insert an email of an already registered user an error message pops up.	The system does not allow to use of the already existing emails in the database to be used repeatedly.	pass
9	Validation of inputs	Admin inserts the event-creating details. The admin inserts the number of event tickets and a higher value into the ticket pool's maximum ticket capacity. Admin generates an error message	The maximum amount of tickets in the ticket pool should be a lesser value than event capacity.	Pass
CLI				
10	Initialize the process	Enter the necessary details to initialize the threads.	CLI allows to enter the details to initialize the process	Pass

11	Start the ticket add and purchase processes	Ask to enter 1 to start the threads while simulating the vendors and customers.	Start the process of ticket adding and purchasing.	Pass
12	Ask to enter ‘1’ or ‘0’ to start or end the process.	Entering ‘1’ will start the threads again for the initialized process.	Starting or ending the ticket buying and purchasing processes.	Pass
13	The customer waits until the vendor adds tickets.	Enter details to initialize. Enter ‘1’ to start. When tickets are not available in the current ticket pool for the customer to purchase, the customer waits until the vendor adds tickets.	When tickets are not available in the pool the customer waits.	Pass
14	Ending the process.	Enter details to initialize. Enter ‘1’ to start. After the thread happens CLI asks to enter start (1) or stop (0). Enters ‘0’ to stop the process.	End the process after pressing ‘0’.	Pass

Table 1: Use Cases

Class diagram

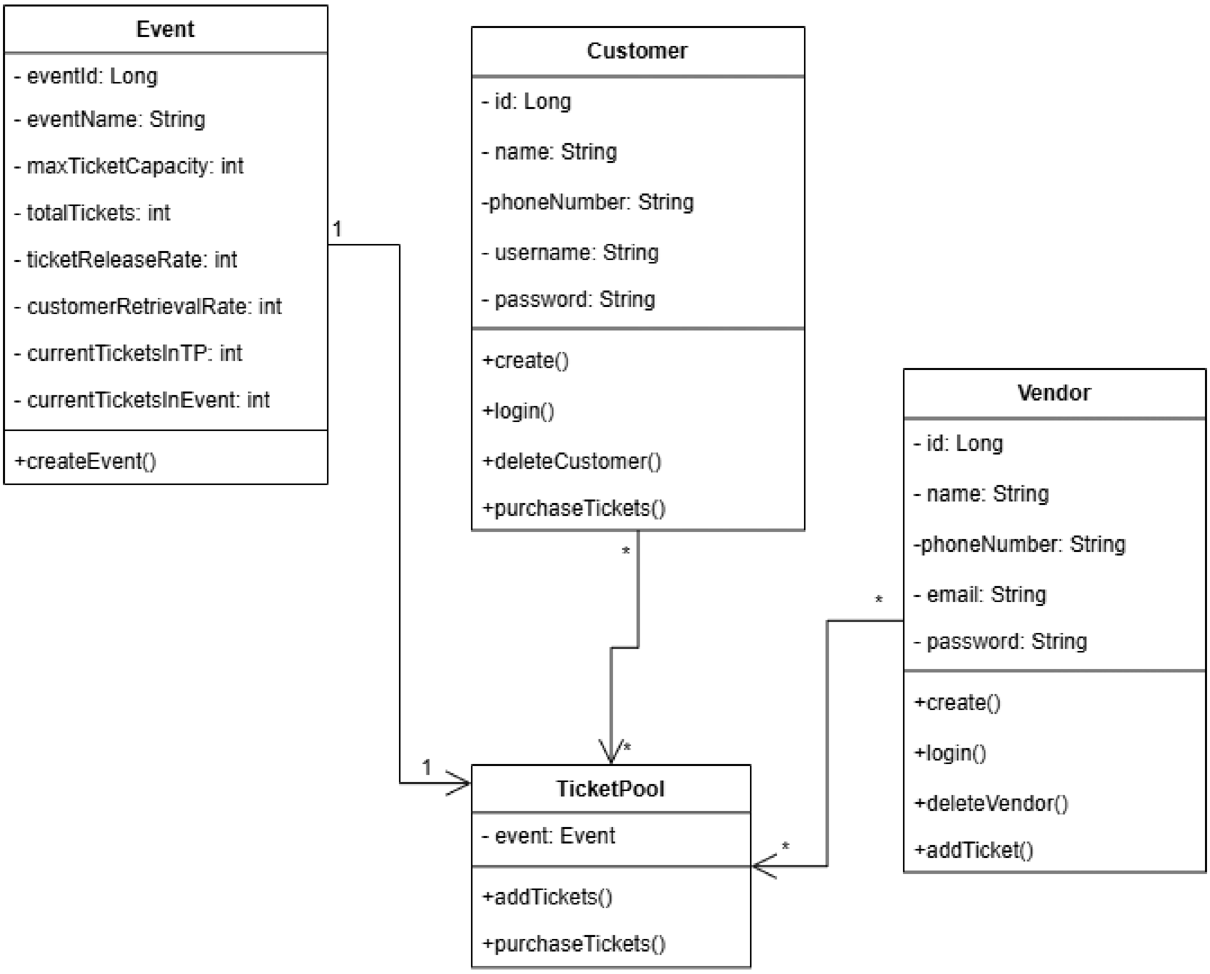

Figure 1: Class Diagram

Sequence diagram

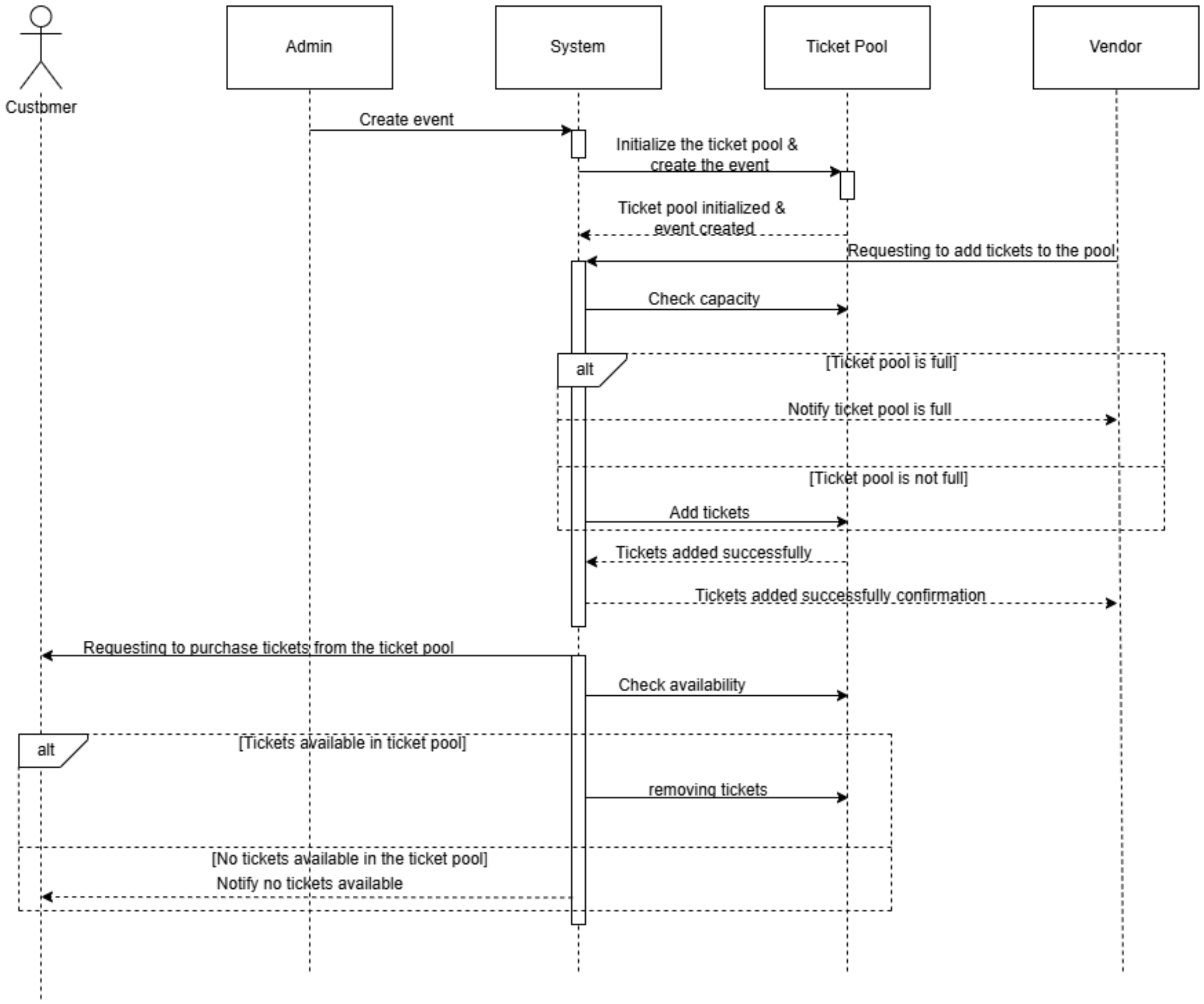

Figure 2: Sequence Diagram