

Contract CO1: purchaseTicket

Operation: purchaseTicket(userID: integer, ticketID: unsigned integer, cardInfo: struct, eventID)

Cross References: Use Cases: Purchasing a ticket.

Preconditions: A buyer must use the application to submit a request to purchase a ticket to the server

A buyer must have filled out the purchase form with credit card information.

A buyer must be logged in.

Postconditions: ~ eventID.attendees was incremented by 1
~ userID.account.tickets was updated with the ticket information being added.

Contract CO2: searchFor

Operation: searchFor(query: string)

Cross References: Use Cases: Searching for a ticket.

Preconditions: A user must type into the search bar

Postconditions: ~ A query through the database was performed.
~ event.information query results were displayed to the user in a presentable format.

Contract CO3: generateReceipt

Operation: generateReceipt(userID: integer)

Cross References: Use Cases: Purchasing a ticket.

Preconditions: A buyer must be logged in.
A buyer must have purchased a ticket.

Postconditions: ~ ticket.information was generated and associated with the buyer.

Contract CO4: sendReceipt

Operation:	sendReceipt(userID:integer, receiptID: integer)
Cross References:	Use Cases: Purchasing a ticket.
Preconditions:	A buyer must be logged in. A buyer must have purchased a ticket.
Postconditions:	~ ticket.information was sent to the email of the buyer.