

# Operations Contracts

Operation	userSearch(String: searchTerm, Filters: searchFilter)
Cross References	Use Cases:
Preconditions	User has logged in
Postconditions	Events matching the user-entered parameters were displayed on the screen

Operation	logIn(int: cofcID, String: password)
Cross References	Use Cases:
Preconditions	User has loaded the application, user has an account
Postconditions	The user is either logged into the software, or a message is printed that the users login information is incorrect

Operation	purchaseTicket(Event: currentEvent)
Cross References	Use Cases:
Preconditions	User has selected an event
Postconditions	An order number and verification number were generated

Operation	processPayment(PaymentMethod: userPayment)
Cross References	Use Cases: Purchase ticket
Preconditions	There is a sale occurring
Postconditions	A boolean was returned dictating whether the payment was accepted

Operation	sendReceipt(Ticket[]: ticketInPurchase, User: currentUser, )
Cross References	Use Cases: Send receipt
Preconditions	User has completed a purchase
Postconditions	An email was sent to the user containing their receipt

Operation	createTicket(User: currentUser, Event: ticketEvent, Seat: ticketSeat)
Cross References	Use Cases: Create ticket
Preconditions	User has completed a purchase
Postconditions	ticketInPurchase was assigned to a user

Operation	createAccount(String: userID, Password: userPassword)
Cross References	Use Cases: Create account
Preconditions	The user has loaded the application
Postconditions	An account was instantiated for the user

Operation	selectSeat(Seat[]: selectedSeat )
Cross References	Use Cases: Select seat
Preconditions	User is purchasing a ticket
Postconditions	A Seat object was associated with the ticket(s)