CSCI 5448
OBJECT ORIENTED ANALYSIS AND DESIGN

BookIT

A project by
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Software Technologies used

- Java Play framework
- Mysql
- Ebean ORM
- Twitter Bootstrap
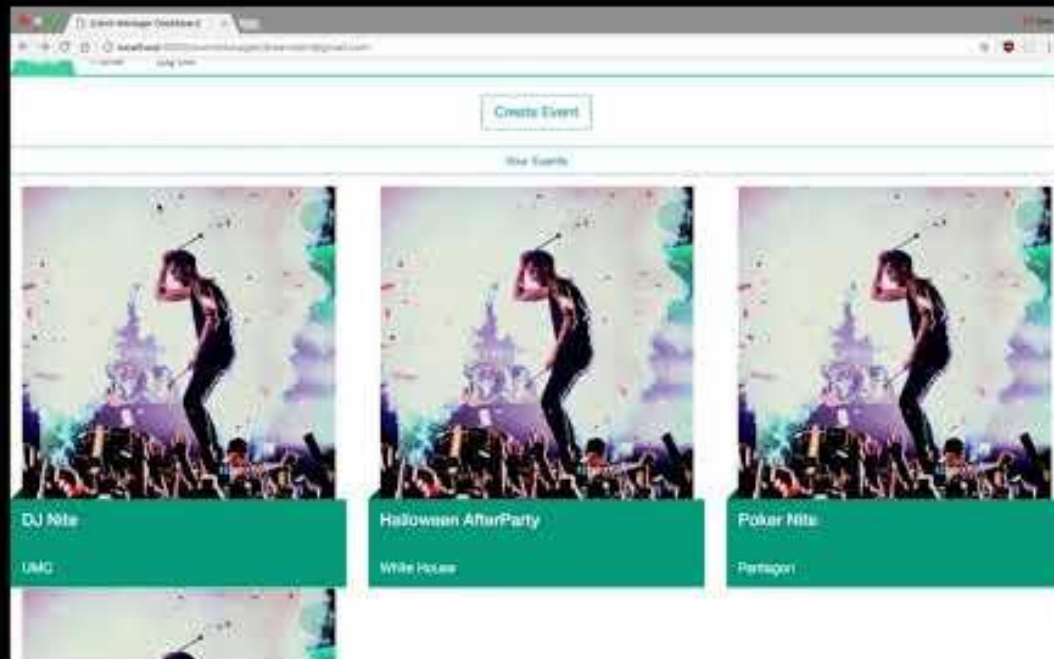- Javascript

STAKEHOLDERS
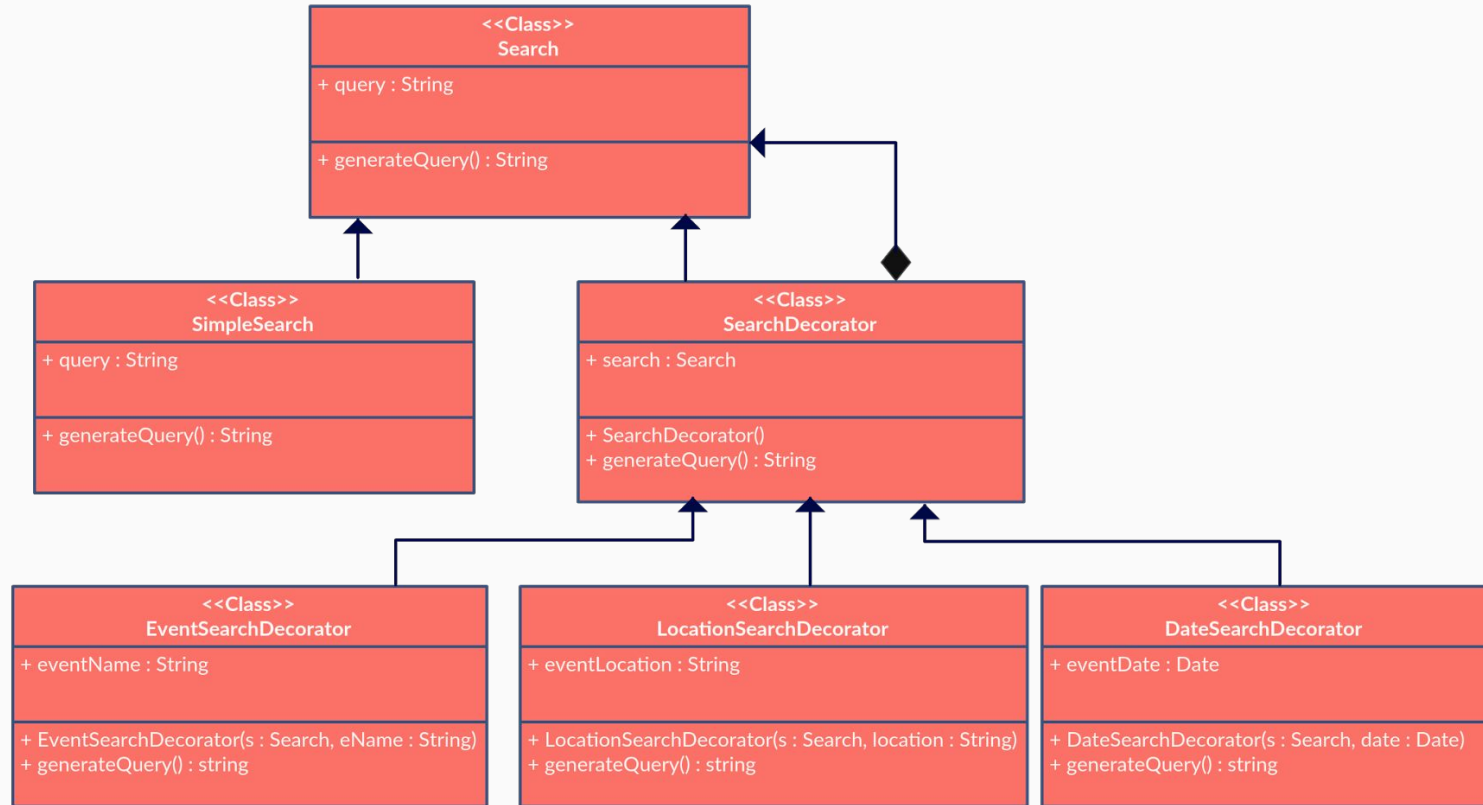
- Customers
- Event Manager
- Admin

MAJOR HIGHLIGHTS

1. **OBSERVER DESIGN PATTERN** for notifying interested customers.
2. **SEARCH DECORATOR** for simultaneous searching according to Event name,Location and Date.
3. **MAILING** system that notifies every major update and serves as the communication between Customer and Event Manager.
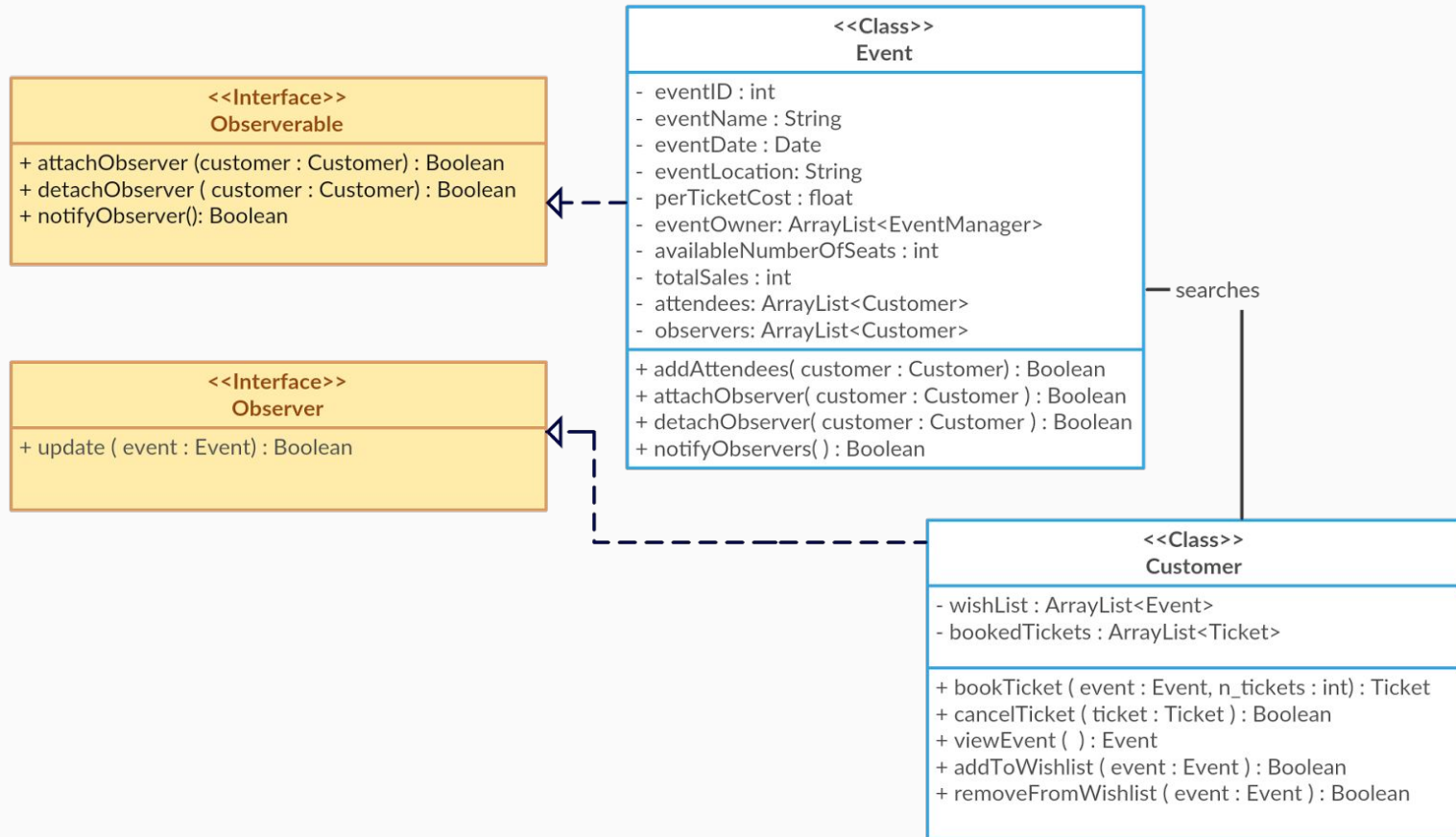4. **Admin** has the right to verify and blacklist any Event Manager

Decorator Design Pattern for search

Observer Pattern for notifying customers

<<Interface>>
Observerable

+ attachObserver (customer : Customer) : Boolean
+ detachObserver (customer : Customer) : Boolean
+ notifyObserver(): Boolean

<<Class>>
Event

- eventID : int
- eventName : String
- eventDate : Date
- eventLocation: String
- perTicketCost : float
- eventOwner: ArrayList<EventManager>
- availableNumberOfSeats : int
- totalSales : int
- attendees: ArrayList<Customer>
- observers: ArrayList<Customer>

+ addAttendees(customer : Customer) : Boolean
+ attachObserver(customer : Customer) : Boolean
+ detachObserver(customer : Customer) : Boolean
+ notifyObservers( ) : Boolean

— searches

<<Interface>>
Observer

+ update (event : Event) : Boolean

<<Class>>
Customer

- wishList : ArrayList<Event>
- bookedTickets : ArrayList<Ticket>

+ bookTicket (event : Event, n_tickets : int) : Ticket
+ cancelTicket (ticket : Ticket) : Boolean
+ viewEvent ( ) : Event
+ addToWishlist (event : Event) : Boolean
+ removeFromWishlist (event : Event) : Boolean

APPROVAL AND BLACKLIST

Superstar film ✔

Location: Albert theatre

Event manager

#	First Name	Last Name	Email	Phone Number	Approval	Actions		
E	Event	Manager	em@gmail.com	1231	false	Approve	Update	Blacklist
E	Hari Vignesh	Rajaram	hari.vignesh.15@gmail.com	7207253754	true	Approve	Update	Blacklist
E	Pranav	Kumar	ilsu0801@colorado.edu	12313	false	Approve	Update	Blacklist