Project Part - 3: Refactoring

• Team:

Ashwin Sankaralingam Hari Vignesh Ilamvazhuthy Subbiah

Title: BookIT

• Project Summary:

BookIT is a one stop destination for all your entertainment ticketing needs from concert ticket to NFL game tickets. You can also signup as an event Manager to host your own events.

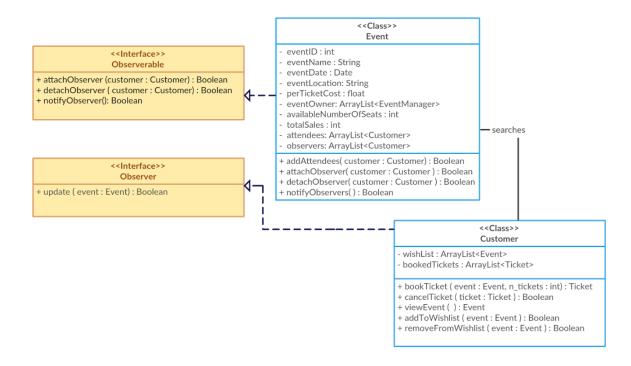
• Refactoring:

Design Patterns:

1) Observer Pattern:

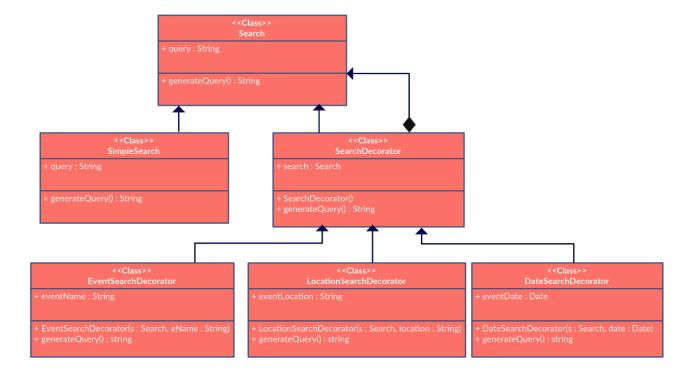
Implementing the Observer Pattern lets the interested customer be notified whenever there is any change in the event details like change in location or time, etc.

The Customer can either add an event to his wishlist or book tickets for the event. In either of the cases, he is an interested party regarding the event and hence should be notified of any changes. The Event class is implemented as the Subject class which knows its list of observers (The customers) and provides functionalities for attaching or detaching an observer. The Event class then notifies all the observers if there is any change in the event details.



2) Decorator Pattern

The decorator pattern can be used when a user searches for events based on a search criteria. The user can couple many search criteria like location, date or the event name when he/she performs the search. The decorator pattern can be employed to handle these couplings in an effective manner.

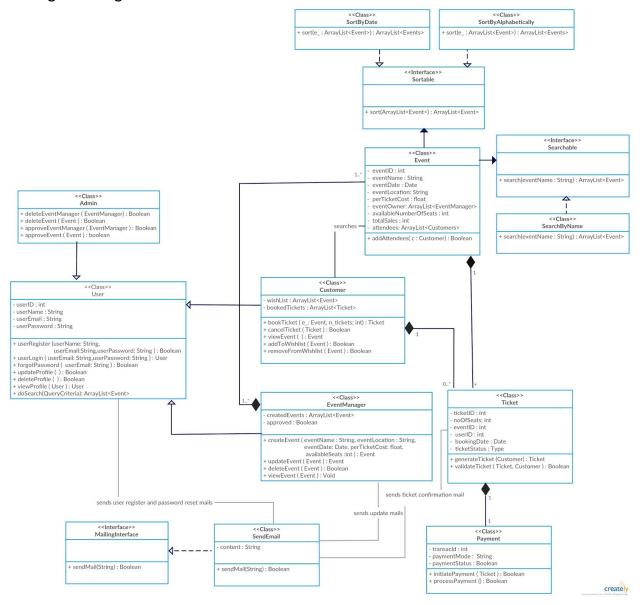


Other Changes:

Class diagram inconsistencies with parameters as variable names vs data types have been corrected.

GUI class has been added.

Existing Class Diagram:



Refactored Class Diagram:

- Observer Yellow
- Decorator Red
- Classes from the previous class diagram are in blue.

