

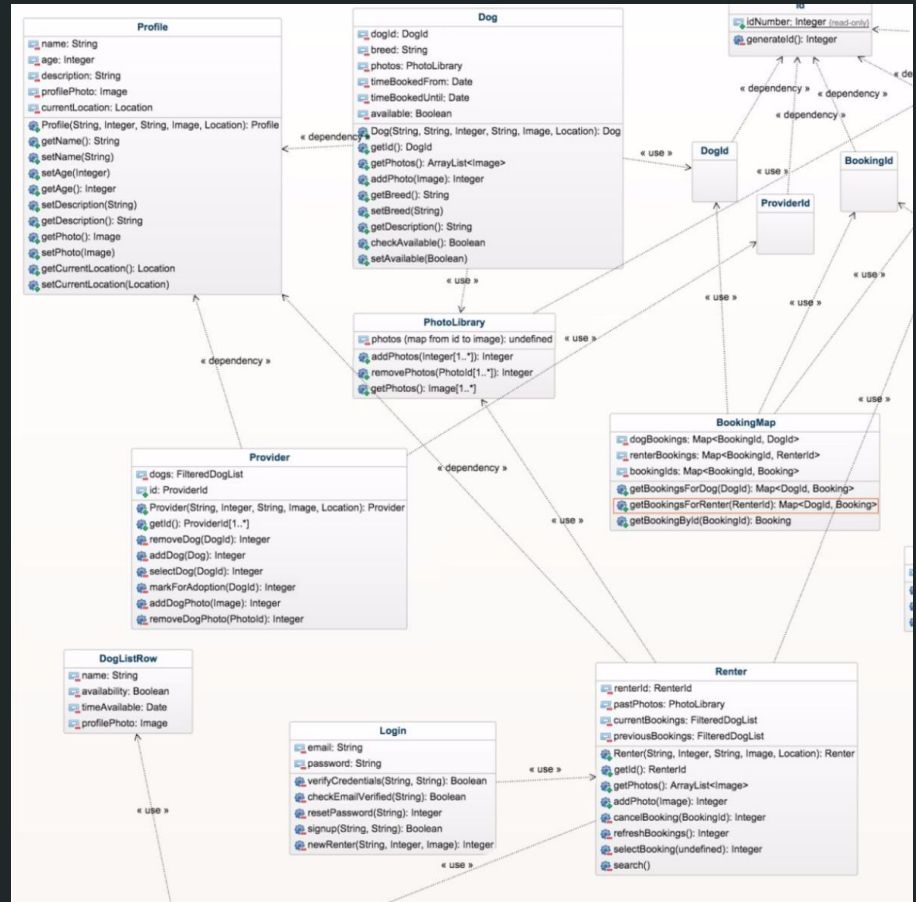
Rent-A-Pup

Elijah, Callie, Elias, Calvin

Demo

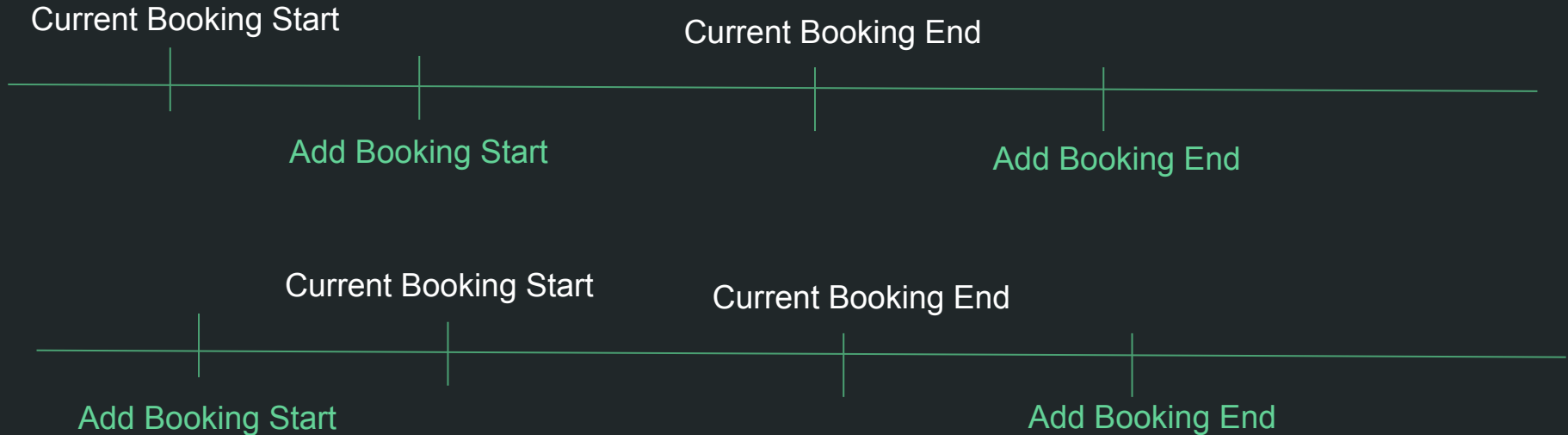
Design Pattern : Template

- Profile superclass allows for code reuse
- Easy integration for future profile types



Design Pattern : Command

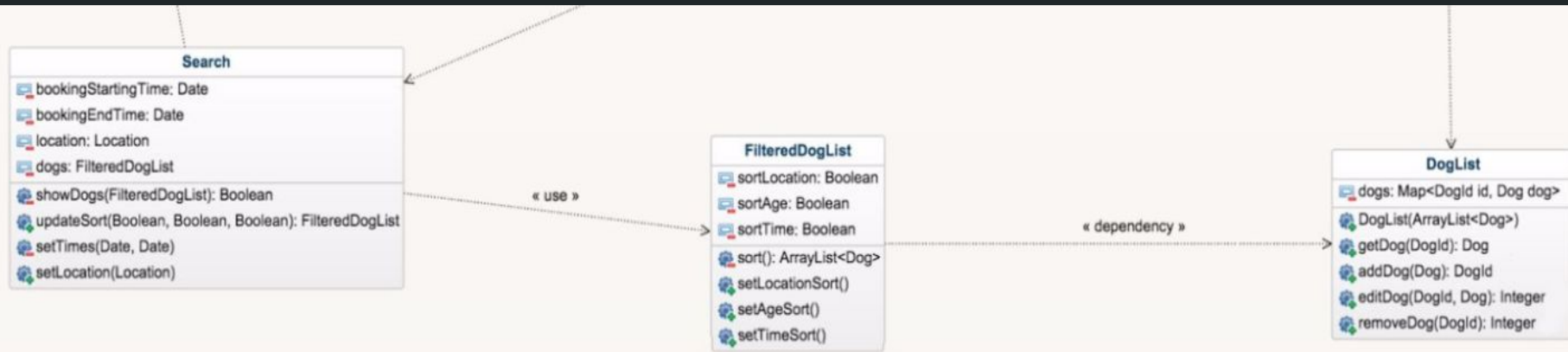
- When a user cancels a booking, `cancelBooking()` must undo what `addBooking()` did.



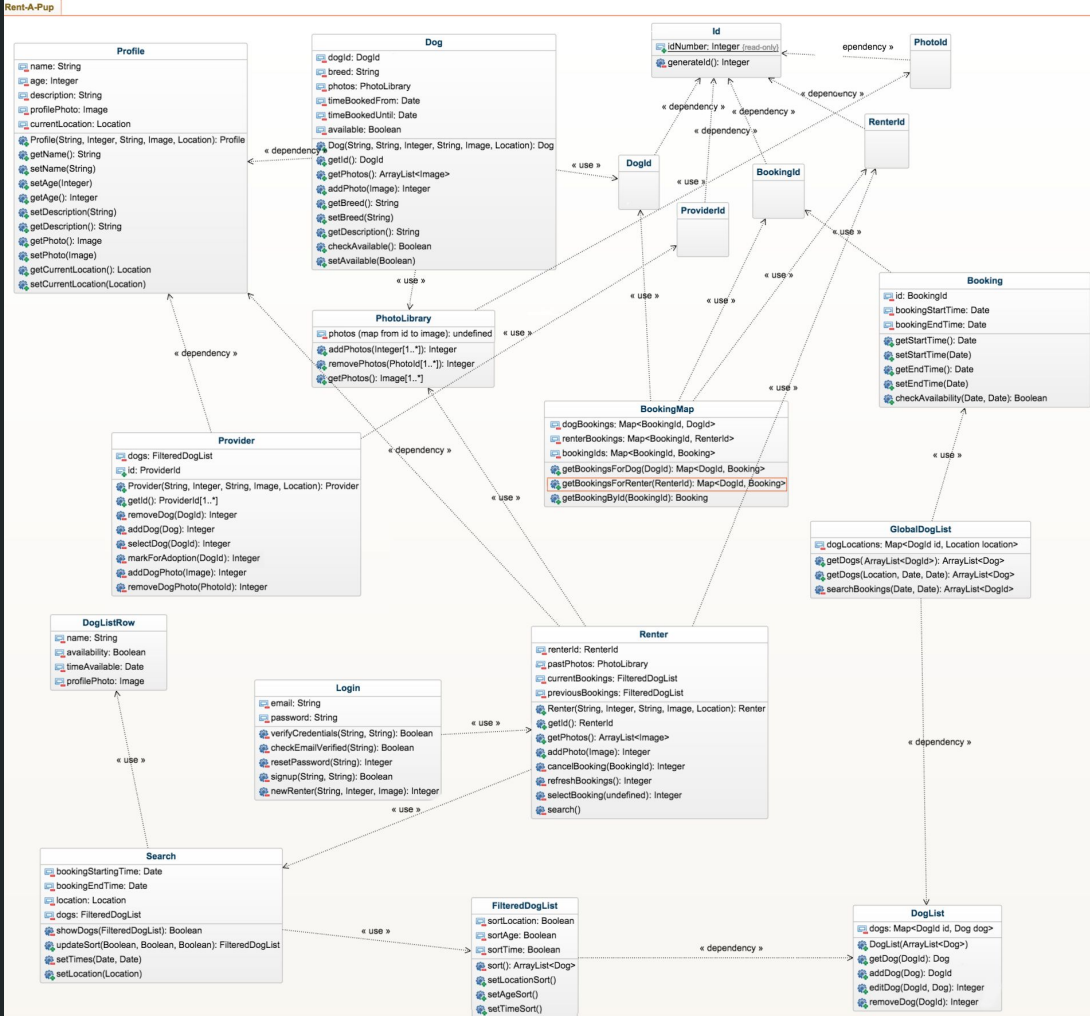
Design Pattern : Observer

- Filtered list of dogs when searched by time

```
for (DBCursor cursor: cursors) {  
    if(cursor.count() > 0) {  
        count = 0;  
        while(cursor.hasNext()){  
            cursor.next();  
            for (String mapId: myMap.keySet()) {  
                if(((ObjectId) cursor.curr().get("dogId")).toHexString().equals(mapId)){  
                    myMap.remove(mapId);  
                    break;  
                }  
                count++;  
            }  
        }  
        cur++;  
    }  
}  
return myMap;
```



Class Diagram



Class Diagram Changes

- Including different arrow types
 - Verify design patterns
- Including inheritance
- Refine classes for mongoDB compatibility