

Find Me a Job



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Application?





Major Use Cases

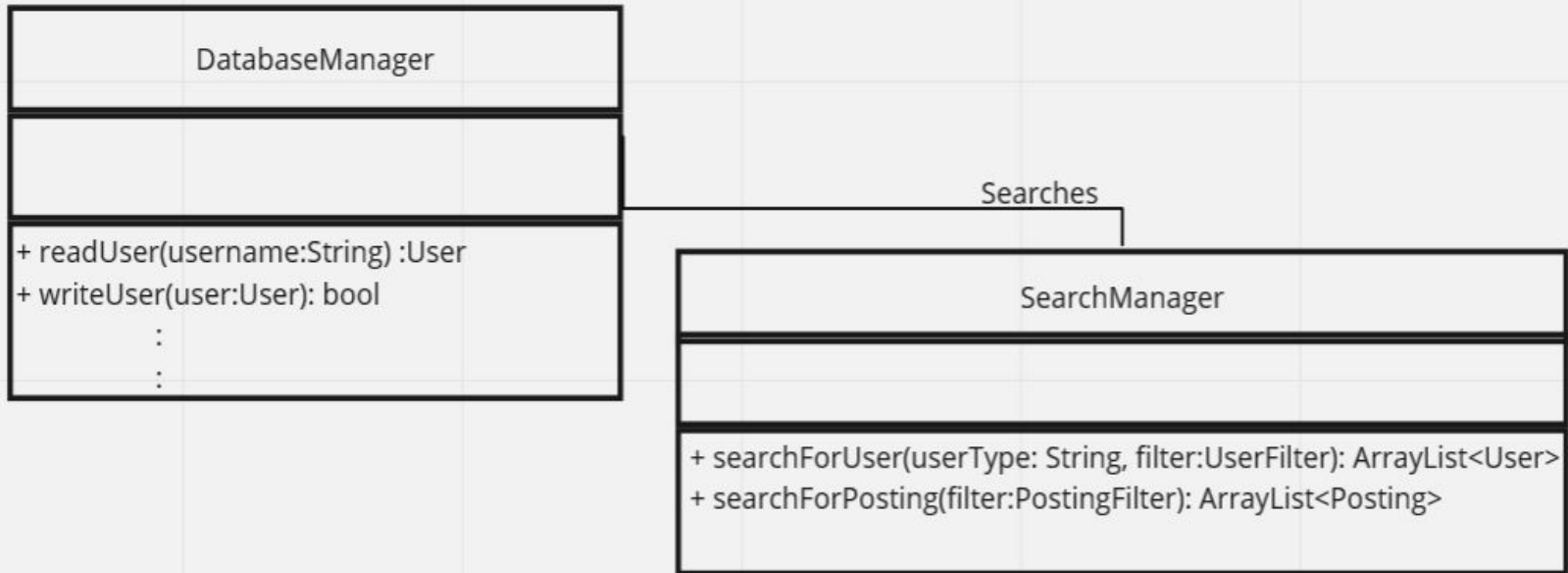
- Recruiter wants to send a job listing to a job seeker.
- Job seeker finds a job listing and applies to it.



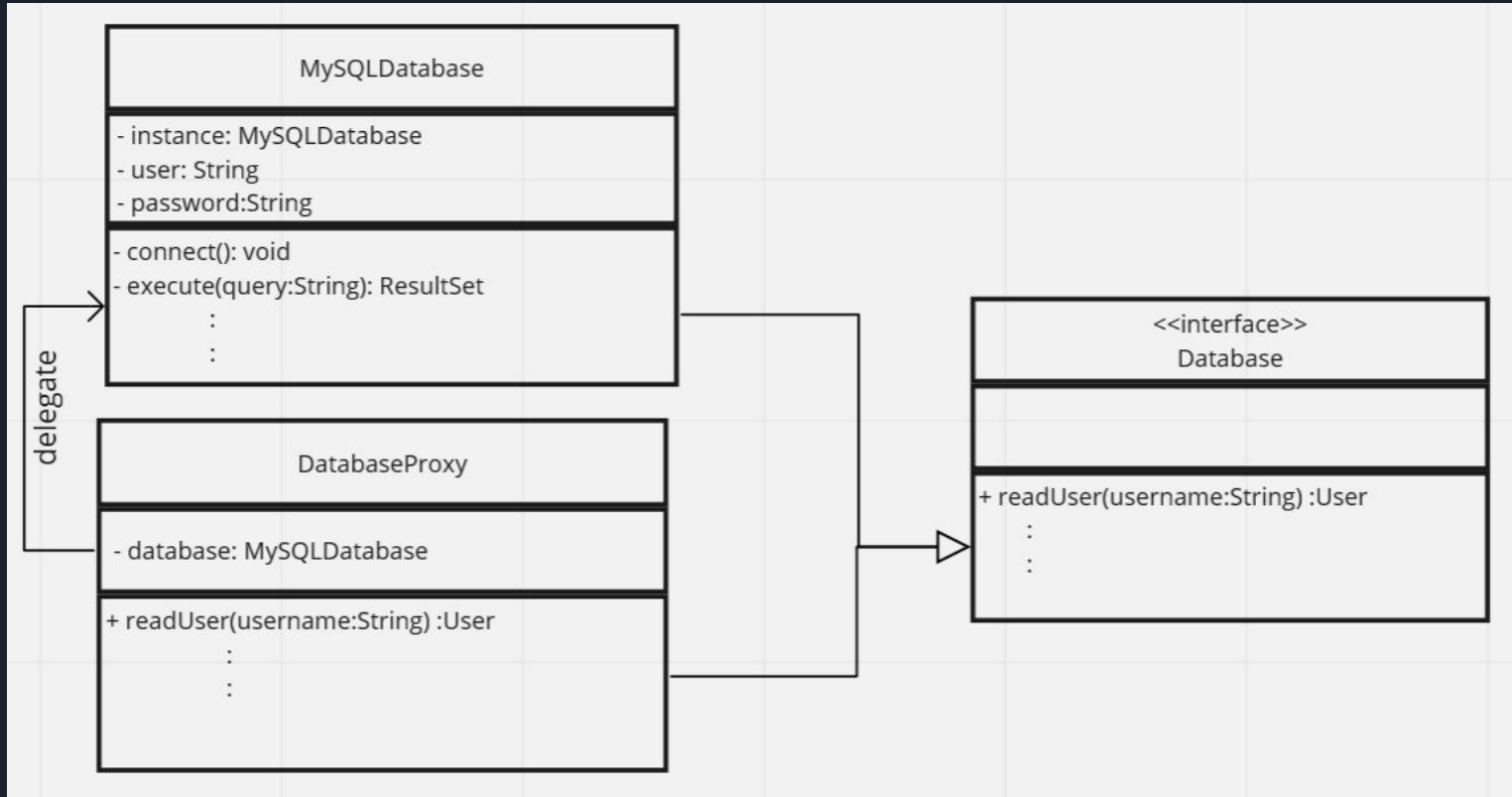
Design Patterns Used

- We used the following design patterns in our project:
 - Proxy
 - Factory
 - Singleton

Database Before Refactoring



Database After Refactoring (Proxy)





Highlight of Proxy Pattern

```
import java.util.ArrayList;

public class DatabaseProxy implements Database {
    private MySQLDatabase database;

    public DatabaseProxy() {
        database = MySQLDatabase.getInstance();
    }

    public User readUser(String username) {
        return database.readUser(username);
    }

    public boolean writeUser(User user) {
        return database.writeUser(user);
    }

    public boolean deleteUser(String username) {
        return database.deleteUser(username);
    }

    public boolean updateUser(String username, User user) {
        return database.updateUser(username, user);
    }
}
```

Highlight of Proxy Pattern

To switch
Databases, only
change these!

```
import java.util.ArrayList;

public class DatabaseProxy implements Database {
    private MySQLDatabase database;

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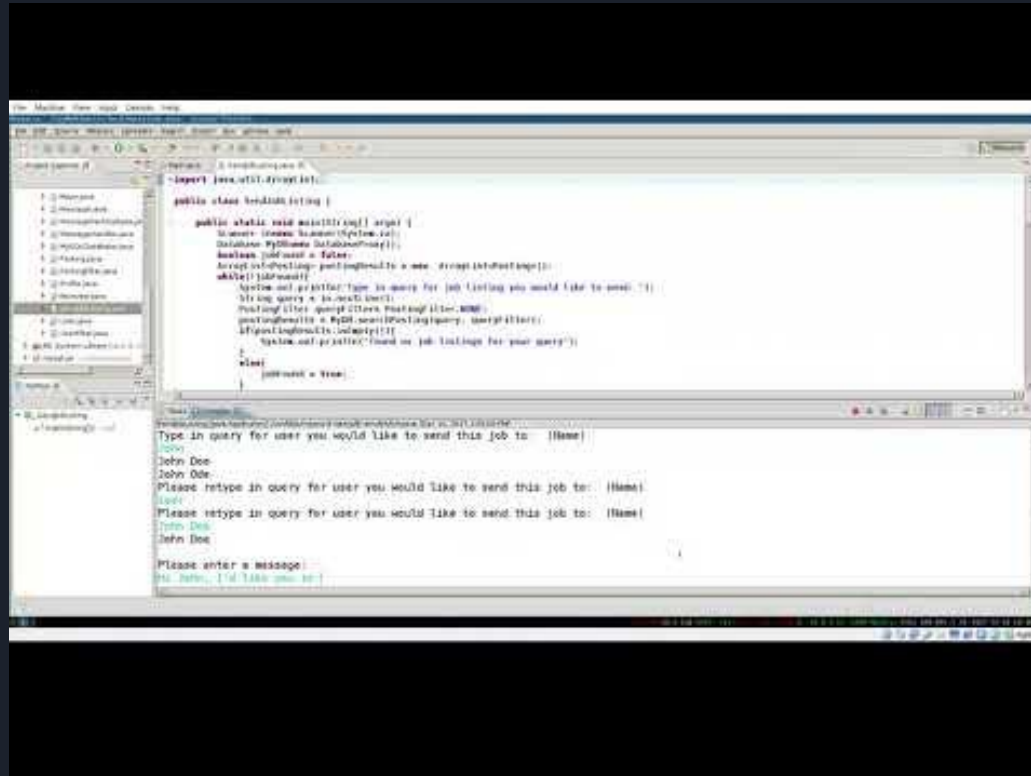
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    public boolean writeUser(User user) {
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    public boolean deleteUser(String username) {
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    public boolean updateUser(String username, User user) {
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```


Application Demo



<https://www.youtube.com/watch?v=sAdTNCNnD5Y>