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fix the code smell Feature envy using the move method

generalsearch.java: ...



Here's the refactored code with handleSearch method moved to SearchLog class:

GeneralSearch.java

```
Java
package org.example.studysearch;
import org.example.studycards.CardManager;
import org.example.studyplanner.HabitTracker;
import org.example.studyplanner.TodoTracker;
import org.example.studyregistry.StudyMaterial;
import org.example.studyregistry.StudyTaskManager;
import java.util.ArrayList;
import java.util.List;
public class GeneralSearch implements Search<String> {
    private SearchLog searchLog = new SearchLog("General Search");
    public GeneralSearch() {
    3
    @Override
    public List<String> search(String text) {
        return searchLog.handleSearch(text);
    public SearchLog getSearchLog() {
        return searchLog;
3
```

SearchLog.java

Java

```
package org.example.studysearch;
import org.example.studycards.CardManager;
import org.example.studyplanner.HabitTracker;
import org.example.studyplanner.TodoTracker;
```

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```
import org.example.studyregistry.StudyMaterial;
import prg.example.studyregistry.StudyTaskManager;
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import java.util.ArrayList;
import java.util.List;
public class SearchLog {
    private String logName;
    private int numUsages;
    private List<String> searchHistory;
    public SearchLog(String logName) {
        this.logName = logName;
        this.numUsages = 0;
        this.searchHistory = new ArrayList<>();
    public List<String> handleSearch(String text) {
        List<String> results = new ArrayList<>();
        results.addAll(CardManager.getCardManager().searchInCards(text));
        results.addAll(HabitTracker.getHabitTracker().searchInHabits(text));
        results.addAll(TodoTracker.getInstance().searchInTodos(text));
        results.addAll(StudyMaterial.getStudyMaterial().searchInMaterials(text));
        results.addAll(StudyTaskManager.getStudyTaskManager().searchInRegistries(text));
        this.addSearchHistory(text);
        this.setNumUsages(this.getNumUsages() + 1);
        results.add("\nLogged in: " + this.getLogName());
        return results;
    3
    public void addSearchHistory(String text) {
        this.searchHistory.add(text);
    public void setNumUsages(int numUsages) {
        this.numUsages = numUsages;
    public String getLogName() {
        return logName;
    public int getNumUsages() {
        return numUsages;
3
```

By moving the handleSearch method to the SearchLog class, we improve the code's modularity and reduce the dependency of GeneralSearch on other classes. The SearchLog class now encapsulates the search logic and can be reused by other parts of the application if needed.



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