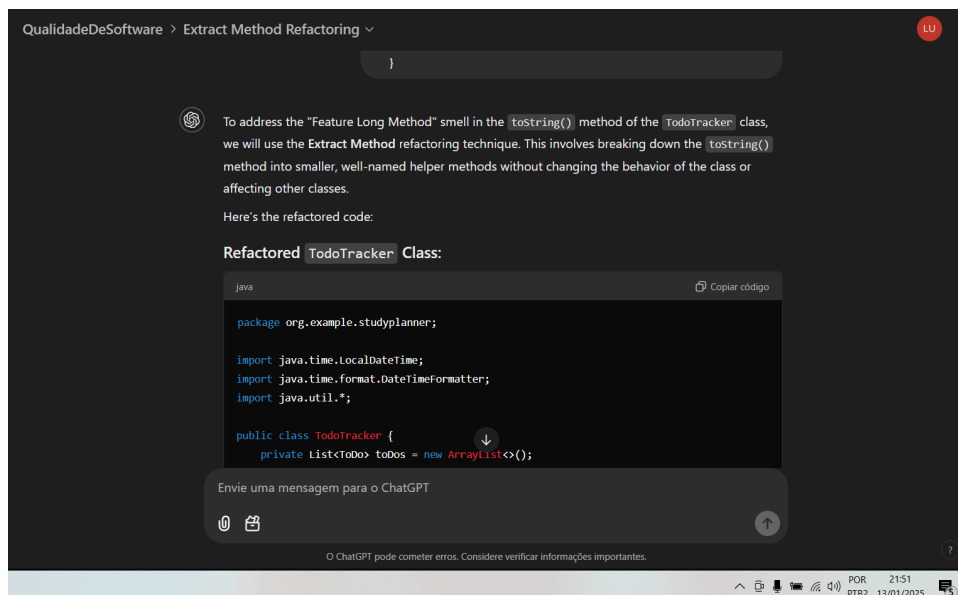
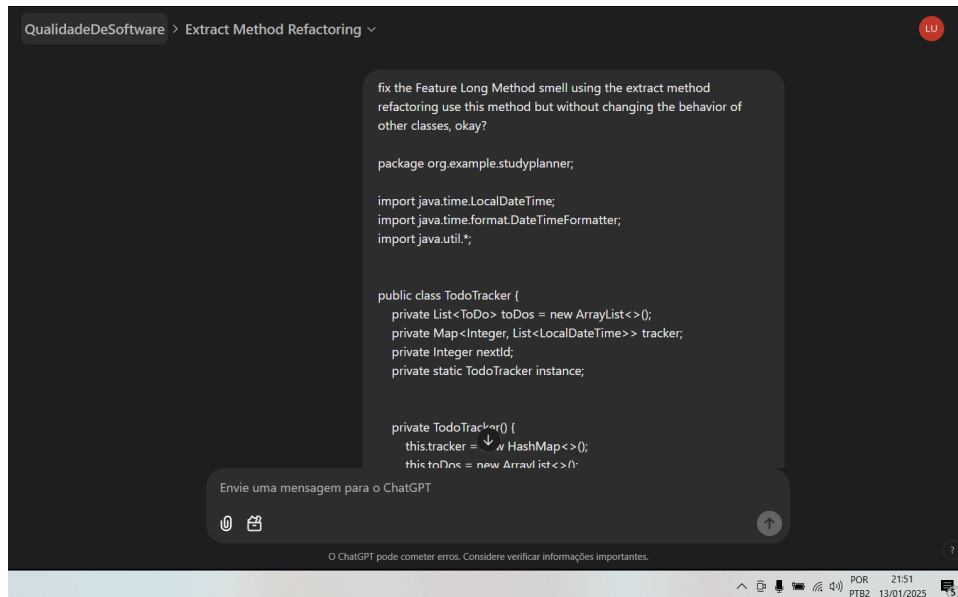


LongMethod



Long Method

QualidadeDeSoftware > Refactoring Long Methods

fix the Feature Long Method smell using the extract method refactoring use this method but without changing the behavior of other classes, okay?

```
package org.example.studyplanner;

import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;

public class KanbanView {
    public enum State{
        TODO, DOING, DONE;
    }

    HabitTracker habitTracker = null;
    TodoTracker todoTracker = null;
    Map<State, List<PlannerMaterial>> kanban = null;

    public void nublir KanbanView(HabitTracker habitTracker, TodoTracker
```

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To fix the **Feature Long Method** smell in the **kanbanView** method while preserving the behavior of other classes, we will refactor the method using the **Extract Method** technique. This will involve breaking down the logic into smaller, reusable helper methods to improve readability and maintainability.

Here's the refactored code:

```
java Copiar código

public String kanbanView() throws Exception {
    try {
        if (kanban.isEmpty()) {
            throw new Exception("No material found");
        }
        StringBuilder sb = new StringBuilder();
        sb.append("[ Material ToDo: ");
        sb.append(System.lineSeparator());
        appendStateMaterials(sb, State.TODO, "No material found");
        sb.append(System.lineSeparator());
    }
}
```

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Long Method

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fix the Feature Long Method smell using the extract method refactoring use this method but without changing the behavior of other classes, okay?

```
package org.example.studyCards;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.List;

public class LeitnerSystem extends StudyMethod {
    List<Box> boxes = null;


    public LeitnerSystem(String methodName) {
        super(methodName);
        boxes = new ArrayList<>(Arrays.asList(new Box(), new Box(), new Box(), new Box(), new Box(), new Box()));
    }
}
```

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QualidadeDeSoftware > Extract Method Refactoring

 To address the **Feature Long Method** smell and reduce the complexity of the `getRandomCard(List<Box> otherBoxes)` method, we can use the **Extract Method** refactoring technique. This involves breaking the method into smaller, more focused helper methods while maintaining the original functionality and ensuring other classes remain unaffected.

Here's the refactored code:

Refactored Code

```
java Copiar código

public String getRandomCard(List<Box> otherBoxes) {
    if (isInvalidBoxList(otherBoxes)) {
        return "No card found";
    }

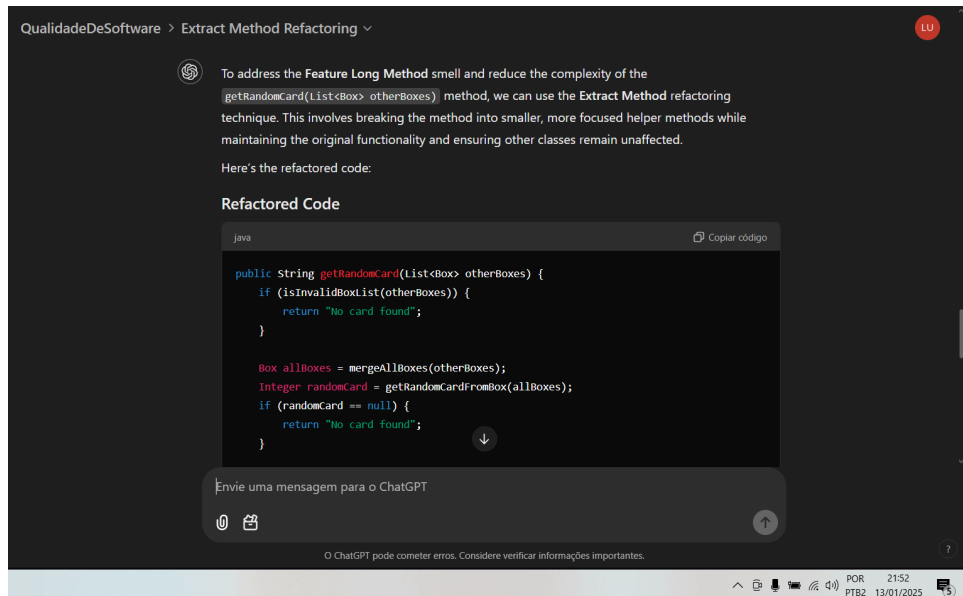
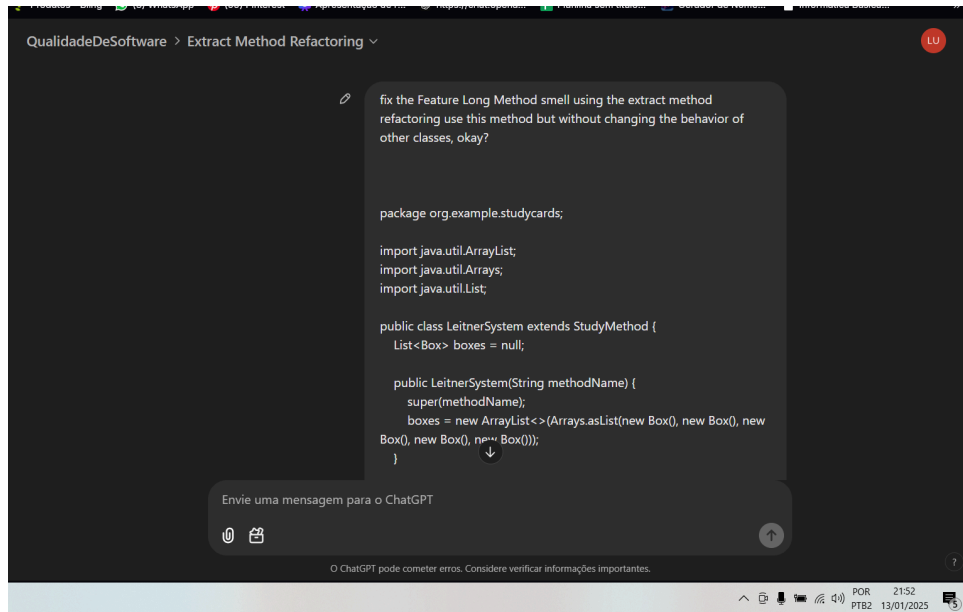
    Box allBoxes = mergeAllBoxes(otherBoxes);
    Integer randomCard = getRandomCardFromBox(allBoxes);
    if (randomCard == null) {
        return "No card found";
    }
}
```

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LongMethod



Long Method

QualidadeDeSoftware > Refactoring Long Method

fix the Feature Long Method smell using the extract method refactoring use this method but without changing the behavior of other classes, okay?

```
package org.example.studyregistry;
import org.example.studymaterial.AudioReference;
import org.example.studymaterial.Reference;
import org.example.studymaterial.TextReference;
import org.example.studymaterial.VideoReference;

import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;

public class StudyMaterial {
    List<Reference> references;
    private static StudyMaterial studyMaterial;
    private Map<String, Integer> referenceCount;

    private StudyMaterial() {
```

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}

To fix the Feature Long Method smell in the `getReferenceCountMap` method, we can use the Extract Method refactoring technique. This approach will involve breaking down the logic into smaller, more manageable methods while maintaining the behavior of the class.

Here's the refactored version of the `StudyMaterial` class with the `getReferenceCountMap` method refactored:

java

Copiar código

```
public Map<String, Integer> getReferenceCountMap(){
    Map<String, Integer> response = initializeReferenceCountMap();

    for (Reference reference : references) {
        if (reference instanceof AudioReference) {
            incrementCount(response, "Audio References");
        } else if (reference instanceof VideoReference) {
            handleVideoReference((VideoReference) reference, response);
        } else if (reference instanceof TextReference) {
            handleTextReference((TextReference) reference, response);
        }
    }
}
```

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