## JAVA - J2EE Batch 2

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## Assignment-7

## 2 PROBLEM STATEMENT — SET CREATION AND SORTING

In this problem, a aet of unique words should be returned from the input paragraph, based on the input order.

Implement the changes inside UniqueWordExtractor and necessary files if you want to write.

```
* Expected Order of Unique words is decided by an Enum containing following constants

ALPHABETIC_ASCENDING - unique words in ascending order

ALPHABETIC_DESCENDING - unique words in descending order

LENGTH_THEN_ALPHABETIC_ASCENDING - unique words in ascending order of word length and then alphabetically ascending

INPUT_ORDER - unique words in the same order as appearing in the paragraph
```



```
☑ cartCheckOut.java
☑ *UniqueWordExtractor.java ×
  package com.main;
  3 import java.util.*;
  5 enum Order {
          ALPHABETIC_ASCENDING, ALPHABETIC_DESCENDING, LENGTH_THEN_ALPHABETIC_ASCENDING, INPUT_ORDER
  9 public class UniqueWordExtractor {
          public static List<String> extractUniqueWords(String paragraph, Order order) {
   if (paragraph == null || paragraph.isEmpty()) {
        return Collections.emptyList();
   }
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               String[] words = paragraph.trim().split("\\s+");
               Set<String> uniqueWords = new LinkedHashSet<>(Arrays.asList(words));
               List<String> uniqueWordsList = new ArrayList<>(uniqueWords);
               switch (order) {
case ALPHABETIC_ASCENDING:
                    Collections.sort(uniqueWordsList);
               break;
case ALPHABETIC_DESCENDING:
    Collections.sort(uniqueWordsList, Collections.reverseOrder());
               case LENGTH_THEN_ALPHABETIC_ASCENDING:
                    Collections.sort(uniqueWordsList
                              Comparator.comparingInt(String::length).thenComparing(Comparator.naturalOrder()));
                    break;
               case INPUT_ORDER:
                    break;
               default:
                    throw new IllegalArgumentException("Unknown order type");
```