

MappingService.java

```
1 package project;
2
3 import java.util.List;
4
5
6
7
8 /* This service is used to map the Array of Literals to New Values using a Pre
   defined Mapping*/
9 public class MappingService {
10
11     /* This method Loop through the mappings for a given keyValue and find the
   right mapped value*/
12     public static String map(List<ConfigAttribute> mappingAttributes,String
   keyValue,int formID) {
13         Optional<String> mappedValue=mappingAttributes.stream()
14             .filter(attribute -> attribute.formID==formID)
15             .filter(attribute ->
   attribute.getAttributeName().equals(keyValue))
16             .map(attribute -> attribute.getAttributeValue()
   [0])
17             .findFirst();
18         if (mappedValue.isPresent()){
19             return mappedValue.get();
20         }
21         else return null;
22     }
23     /* This method Loop through the mappings for a given array of keyValues and
   find the right
24     * array of mapped values*/
25     public static String[] mapArray(List<ConfigAttribute>
   mappingAttributes,String[] keyValues,int formID,boolean isMapping){
26         if (isMapping){
27             String[] newKeyValues=new String[keyValues.length];
28             (Stream.of(keyValues)
29                 .map(value -> map(mappingAttributes,value,formID))
30                 .collect(Collectors.toList())).toArray(newKeyValues);
31
32             return newKeyValues;
33         }
34         else return keyValues;
35     }
36 }
37 }
38
```