

EntryMap.java

```
1 package st;
2
3 import java.util.ArrayList;
4
5
6 public class EntryMap {
7
8     private ArrayList<Entry> entries;
9
10    private HashSet<Entry> uniqueEntries;
11
12    public EntryMap(){
13        entries = new ArrayList<>();
14        uniqueEntries = new HashSet<>();
15    }
16
17    public void store(String pattern, String value, Boolean caseSensitive)
18    throws RuntimeException{
19        if (caseSensitive == null){
20            caseSensitive = Boolean.FALSE;
21        }
22        Entry entry = new Entry(pattern, value, caseSensitive);
23        if (!isEntryValid(entry)){
24            throw new RuntimeException();
25        }
26        if (isEntryUnique(entry)){
27            addEntry(entry);
28        }
29    }
30
31    private Boolean isEntryValid(Entry entry){
32        if (entry.getPattern() == null)
33            return Boolean.FALSE;
34        if (entry.getPattern().isEmpty())
35            return Boolean.FALSE;
36        if (entry.getValue() == null)
37            return Boolean.FALSE;
38        return Boolean.TRUE;
39    }
40
41    private Boolean isEntryUnique(Entry entry){
42        return !uniqueEntries.contains(entry);
43    }
44
45    private void addEntry(Entry entry){
46        entries.add(entry);
47        uniqueEntries.add(entry);
48    }
49
50    public ArrayList<Entry> getEntries() {
51        return entries;
52    }
53}
```

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```

54  class Entry {
55      String pattern;
56      String value;
57      Boolean caseSensitive;
58
59      public Entry(String pattern, String value, Boolean caseSensitive) {
60          this.pattern = pattern;
61          this.value = value;
62          this.caseSensitive = caseSensitive;
63      }
64
65      public String getPattern() {
66          return pattern;
67      }
68
69      public String getValue() {
70          return value;
71      }
72
73      public Boolean getCaseSensitive() {
74          return caseSensitive;
75      }
76
77      @Override
78      public boolean equals(Object o) {
79          if (this == o) return true;
80          if (o == null || getClass() != o.getClass()) return false;
81
82          Entry entry = (Entry) o;
83
84          if (!getPattern().equals(entry.getPattern())) return false;
85          if (!getValue().equals(entry.getValue())) return false;
86          return getCaseSensitive() != null ? getCaseSensitive().equals
            (entry.getCaseSensitive()) : entry.getCaseSensitive() == null;
87      }
88
89      @Override
90      public int hashCode() {
91          int result = getPattern().hashCode();
92          result = 31 * result + getValue().hashCode();
93          result = 31 * result + (getCaseSensitive() != null ?
            getCaseSensitive().hashCode() : 0);
94          return result;
95      }
96  }
97
98 }
99

```