

```
1
2 package acme.features.manager.assignment;
3
4 import java.util.Collection;
5 import java.util.HashSet;
6 import java.util.Set;
7 import java.util.stream.Collectors;
8
9 import org.springframework.beans.factory.annotation.Autowired;
10 import org.springframework.stereotype.Service;
11
12 import acme.client.data.models.Dataset;
13 import acme.client.services.AbstractService;
14 import acme.entities.project.Assignment;
15 import acme.features.manager.project.ManagerProjectRepository;
16 import acme.roles.Manager;
17
18 @Service
19 public class ManagerAssignmentListService extends AbstractService<Manager, Assignment> {
20
21     // Internal state -----
22
23     @Autowired
24     private ManagerProjectRepository repository;
25
26     // AbstractService interface -----
27
28     @Override
29     public void authorise() {
30         boolean status;
31         int masterId;
32
33         masterId = super.getRequest().getData("masterId", int.class);
34         Manager manager = this.repository.findManagerByProjectId(masterId);
35         status = super.getRequest().getPrincipal().getActiveRoleId() == manager.getId();
36
37         super.getResponse().setAuthorised(status);
38     }
39
40     @Override
41     public void load() {
42         int id = super.getRequest().getData("masterId", int.class);
43         Collection<Assignment> objects = this.repository.findAllAssignmentsOfAProjectById
44 (id).stream().distinct().collect(Collectors.toList());
45         objects = this.deleteDuplicated(objects);
46
47         super.getResponse().addGlobal("masterId", id);
48         super.getBuffer().addData(objects);
49     }
50
51     @Override
52     public void unbind(final Assignment assignment) {
53
54         assert assignment != null;
55
56         Dataset dataset;
57
58         dataset = super.unbind(assignment, "project", "userStory");
59
60         dataset.put("projectTitle", assignment.getProject().getTitle());
61         dataset.put("userStoryTitle", assignment.getUserStory().getTitle());
```

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62
63     int masterId = super.getRequest().getData("masterId", int.class);
64
65     super.getResponse().addGlobal("masterId", masterId);
66     super.getResponse().addData(dataset);
67
68 }
69
70 private Collection<Assignment> deleteDuplicated(final Collection<Assignment> objects) {
71     Set<String> uniquePairs = new HashSet<>();
72     return objects.stream().filter(assignment -> {
73         boolean res = false;
74         String pair = assignment.getProject() + "-" + assignment.getUserStory();
75         if (!uniquePairs.contains(pair)) {
76             uniquePairs.add(pair);
77             res = true;
78         }
79         return res;
80     }).collect(Collectors.toList());
81 }
82
83 }
84
```