

```
1
2 package acme.features.client.contract;
3
4 import java.util.Collection;
5
6 import org.springframework.beans.factory.annotation.Autowired;
7 import org.springframework.stereotype.Service;
8
9 import acme.client.data.datatypes.Money;
10 import acme.client.data.models.Dataset;
11 import acme.client.services.AbstractService;
12 import acme.client.views.SelectChoices;
13 import acme.entities.contract.Contract;
14 import acme.roles.Client;
15
16 @Service
17 public class ClientContractUpdateService extends AbstractService<Client,
18     Contract> {
19     @Autowired
20     private ClientContractRepository repository;
21
22
23     @Override
24     public void authorise() {
25         boolean status;
26         Contract contract;
27         int id = super.getRequest().getData("id", int.class);
28         contract = this.repository.findContractById(id);
29         status = contract != null && contract.isDraft() && super.getRequest
30             ().getPrincipal().hasRole(Client.class) && contract.getClient().getId() ==
31             super.getRequest().getPrincipal().getActiveRoleId();
32         super.getResponse().setAuthorised(status);
33     }
34
35     @Override
36     public void load() {
37         Contract contract;
38         int id;
39
40         id = super.getRequest().getData("id", int.class);
41         contract = this.repository.findContractById(id);
42
43         super.getBuffer().addData(contract);
44     }
45
46     @Override
47     public void bind(final Contract contract) {
48         assert contract != null;
```

```
48     super.bind(contract, "code", "moment", "providerName",
129     "customerName", "goals", "budget", "isDraft", "project");
130 }
131
132 @Override
133 public void validate(final Contract contract) {
134     assert contract != null;
135     Collection<Contract> contracts = null;
136     if (!super.getBuffer().getErrors().hasErrors("code")) {
137         Contract existing;
138         existing = this.repository.findOneContractByCode
139             (contract.getCode());
140         super.state(existing == null || existing.equals(contract),
141             "code", "client.contract.form.error.duplicated");
142     }
143     if (!super.getBuffer().getErrors().hasErrors("budget"))
144         super.state(contract.getBudget().getAmount() >= 0, "budget",
145             "client.contract.form.error.negative-budget");
146     if (!super.getBuffer().getErrors().hasErrors("budget")) {
147         contracts = this.repository.findAllContractsOfAProjectById
148             (contract.getProject().getId());
149         double totalBudget = contracts.stream().filter(p -> p.getId() !=
150             contract.getId()).mapToDouble(c -> this.eurConverter(c.getBudget())).sum
151             ();
152         double projectCost = contract.getProject().getCost().getAmount
153             ();
154         totalBudget += this.eurConverter(contract.getBudget());
155         super.state(totalBudget <= projectCost, "budget",
156             "client.contract.form.error.exceeds-project-cost");
157     }
158 }
159
160 private double eurConverter(final Money money) {
161     String currency = money.getCurrency();
162     double amount = money.getAmount();
163
164     if (currency.equals("EUR"))
165         amount = amount;
166     else if (currency.equals("USD"))
167         amount = amount * 0.90; // Tasa aproximada de conversión USD a
168     EUR
169     else if (currency.equals("GBP"))
170         amount = amount * 1.17; // Tasa aproximada de conversión GBP a
171     EUR
172     else
173         super.state(false, "budget",
174             "client.contract.unsupportedCurrency");
175 }
```

```
86     return amount;
87
88     }
89
90     @Override
91     public void perform(final Contract contract) {
92         assert contract != null;
93
94         this.repository.save(contract);
95     }
96     @Override
97     public void unbind(final Contract contract) {
98         assert contract != null;
99         boolean isDraft;
100         SelectChoices choices;
101
102         choices =
103             SelectChoices.from(this.repository.findAllPublishedProjects(), "title",
104                             contract.getProject());
105         isDraft = contract.isDraft() == true;
106
107         Dataset dataset;
108
109         dataset = super.unbind(contract, "code", "moment", "providerName",
110                                "customerName", "goals", "budget", "isDraft", "project");
111         dataset.put("contractId", contract.getId());
112         dataset.put("isDraft", isDraft);
113         dataset.put("projects", choices);
114
115         super.getResponse().addData(dataset);
116     }
117 }
```