

```
1 /**
2  * This effort is developed to replace existing
   estimating database built with access using jhipster
   to create
3  * vue app with initial postgres backend with Vue
   Frontend.
4  * Code is generated from this .jdl file relying on
   jhipster plugin for intellij to visually inspect
   entities
5  * as design tool similar to uml.
6  * First iteration and or version 1.0 of myEstimator
   ~ RMH.(x0up)
7 */
8
9
10
11 /** Entity User */
12 entity User {
13   login String required
14
15 }
16
17
18 /* Entities for Scope Design Estimating Database
   version 1.0 */
19
20 /** Entity Estimate Design */
21 entity EstimateDesign {
22   approachNumber Float required
23   complexity Complexity,
24
25
26 }
27
28 /** Entity Scope Design */
29
30 entity ScopeDesign {
31   designEstimate Float
32   codeEstimate Float
33   syst1Estimate Float
34   syst2Estimate Float
```

```
35     qualEstimate Float
36     impEstimate Float
37     postImpEstimate Float
38     totalHours Float
39 }
40
41 /** Entity Work Request Info --> note possible chart
    future iteration */
42 entity WorkInfo {
43     scopeAct Float required
44     designAct Float required
45     codeAct Float required
46     syst1Act Float required
47     syst2Act Float required
48     qualAct Float required
49     impAct Float required
50     postImpAct Float required
51     totalAct Float required
52
53 }
54
55 /** Entity Estimate Basis */
56
57 entity EstimateBasis {
58     subsystemId Integer required
59     basisOfEstimate TextBlob required
60     assumptions TextBlob required
61     lastUpdate Instant required
62 }
63
64 /** Entity Costing Percentages */
65
66 entity CostingPercentages {
67     costingSystem Integer required
68     costingQual Integer required
69     costingImp Integer required
70     costingPostImp Integer required
71     active Boolean
72     dateAdded Instant required
73 }
74
```

```
75 /** Enum Department */
76
77 enum Department {
78     SSD,
79     PGBA_Client,
80     PGBA_Support,
81     PGBA_Applications,
82     PGBA_PMO,
83     PGBA_Business_Support,
84     Leveraged_Systems,
85     QA,
86     LOB_Manager,
87     RSET,
88     ICT,
89     PAS
90
91
92 }
93
94 /** Enum for Element Type */
95
96 enum Type{
97     New,
98     Modify,
99     Regen
100 }
101
102 /** Entity Element Type */
103 entity ElementTypes {
104     Element UUID required unique
105     Type Type
106 }
107
108 /** Entity Complexity */
109
110 enum Complexity {
111     Easy,
112     Average,
113     Complex
114 }
115
```

```
116 /** Entity Work Request */
117
118 entity WorkRequest {
119     projectId String unique required
120     workRequest String required
121     workRequestDescription String required
122     workRwquestPhase String required
123     startDate Instant required
124     endDate Instant required
125     status ProjectStatus
126     design DesignStatus
127 }
128
129 /** Entity Employee */
130
131 entity Employee {
132     employeeId String required
133     firstName String required
134     lastName String required
135     //role Role required
136     email String required pattern(/^[^@\\s]+@[^@\\s
137     ]+\\.([^@\\s]+$/))
137     phone String required
138     department Department
139     role Role
140 }
141
142 /** Entity Manager */
143 /*
144
145 entity Manager {
146 mngr_cd String required
147
148 }
149 */
150 /** Enum Role*/
151 enum Role {
152     Admin,
153     Project_Owner,
154     Project_Manager,
155     App_Director,
```

```
156 Manager,
157 App_Design_Architect,
158 Systems_Designer,
159 Team_Lead,
160 Business_Systems_Analyst,
161 Systems_Expert,
162 Test_Designer,
163 Usability_Designer,
164 Systems_Analyst,
165 Systems_Expert,
166 Software_Designer,
167 Software_Developer,
168 Technical_Writer,
169 Tester
170 }
171
172
173 /* TODO maybe add later
174 entity Project {
175 projectId String unique required
176 placedDate Instant required
177 status ProjectStatus required
178 */
179
180
181 /** Enum Project Status */
182 enum ProjectStatus {
183     Pending,
184     InProgress,
185     OnHold,
186     Completed,
187     Canceled
188 }
189
190 /*entity Design {
191 quantity Integer required min(0)
192 totalPrice BigDecimal required min(0)
193 status OrderItemStatus required
194 */
195
196 /** Enum Design Status*/
```

```
197
198 enum DesignStatus {
199     Pending,
200     InProgress,
201     OnHold,
202     Completed,
203     Canceled
204 }
205
206 /** Relationships */
207
208 /** One To One */
209
210 relationship OneToOne {
211     Employee{user(login) required} to User,
212     WorkInfo{workrequest(projectId) required} to
        WorkRequest,
213     ScopeDesign{workrequest(projectId) required} to
        WorkRequest,
214     EstimateBasis{workrequest(projectId) required} to
        WorkRequest,
215     EstimateDesign{workrequest(projectId) required} to
        WorkRequest,
216     EstimateDesign{elementtypes(element) required} to
        ElementTypes
217
218 }
219
220 relationship ManyToOne {
221     Employee{workrequest(projectID) required} to
        WorkRequest{employee(employeeId) required}
222 }
223
224
225
226 /*}
227 relationship ManyToMany {
228
229
230
231 }*/
```

```
232
233   /** Many TO One */
234
235  /*
236  relationship OneToMany {
237
238
239  }*/
240  /** Service */
241  service * with serviceClass
242
243  /** Pagination */
244  paginate WorkRequest, Employee, ScopeDesign,
    EstimateDesign, EstimateBasis, WorkInfo,
    EstimateDesign with pagination
245
246
```