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1 CONTEXT Projectadministratie IN ENGLISH
2
3 PROCESS Projectadministratie
4
5     CONCEPT SESSION ""
6
7     CONCEPT Project "Planned set of interrelated tasks to be executed over a fixed
8 period and within certain cost and other limitations."
9     VIEW "Project name"      : Project(projectName)
10    projectName             :: Project * TEXT [UNI]
11    projectStatus           :: Project * TEXT [UNI]
12    projectDescription       :: Project * BLOB [UNI]
13    projectStartDate        :: Project * DATE [UNI]
14    projectStarted          :: Project * Project [PROP]
15    pl                      :: Project * Person
16    member                  :: Project * Person
17
18    CONCEPT Person "Person"
19    VIEW "Person name"      : Person(personName)
20    personName              :: Person * TEXT [UNI]
21    personStatus            :: Person * TEXT [UNI]
22    personEmail             :: Person * TEXT [UNI]
23    workswith              :: Person * Person
24
25    CONCEPT PPL "Objectified relation of pl (Projectleader)"
26    pplProject              :: PPL * Project [UNI,TOT]
27    pplPerson               :: PPL * Person [UNI,TOT]
28    pplStartDate            :: PPL * DATE [UNI]
29    pplStarted              :: PPL * PPL [PROP]
30
31    -- Invariant rules
32    RULE "Every project must have a name" : I[Project] |- projectName;projectName~
33
34    -- Process rules for role Planner
35    ROLE "Planner" MAINTAINS "Every project must have a projectleader"
36    RULE "Every project must have a projectleader" : I[Project] |- pl;p1~
37    MESSAGE "Every project must have a projectleader"
38    VIOLATION ( TXT "Project '", SRC projectName, TXT "' does not have a projectleader")
39
40    -- Automated rules
41    ROLE "ExecEngine" MAINTAINS "Projectleaders are not members of a team"
42    RULE "Projectleaders are not members of a team": pl |- -member
43    VIOLATION ( TXT "Delpair;member;Project;", SRC I, TXT ";Person;", TGT I)
44
45    ROLE "ExecEngine" MAINTAINS "Works with"
46    RULE "Works with": (pl~;member \ / member~;member) /\ -I |- workswith
47    VIOLATION ( TXT "Inspair;workswith;Person;", SRC I, TXT ";Person;", TGT I )
48
49    ROLE "ExecEngine" MAINTAINS "Works with_del"
50    RULE "Works with_del": workswith |- (pl~;member \ / member~;member) /\ -I
51    VIOLATION ( TXT "Delpair;workswith;Person;", SRC I, TXT ";Person;", TGT I)
52
53    ROLE "ExecEngine" MAINTAINS "Create PPL"
54    RULE "Create PPL" : pl |- pplProject~;pplPerson
55    VIOLATION ( TXT "NewStruct;PPL"
56                , TXT ";pplProject;PPL;NULL;Project;", SRC I
57                , TXT ";pplPerson;PPL;NULL;Person;", TGT I
58                , TXT ";pplStartDate;PPL;NULL;DATE;{php}date(DATE_ISO8601)" -- Current date
59 in ISO 8601 date format
60            )
61
62 ENDPROCESS

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63
64 -- Top Level interfaces
65 INTERFACE "Started projects" FOR "Planner" : V[SESSION*Project];projectStarted
66     BOX <SCOLS> [ "Projects"      : I[Project]
67                 , "Name"         : projectName
68                 , "Description"   : projectDescription
69                 , "Projectleider" : pl
70                 , " "            : pl                                <PersonEmail>
71                 , "Start"         : projectStartDate
72                 , "Started"       : projectStarted                    <ProjectStarted>
73                 ]
74
75 INTERFACE "Unstarted projects" (projectStarted) FOR "Planner" : V[SESSION*Project];(-
76 projectStarted /\ I)
77     BOX <SCOLS> [ "Name"          : projectName
78                 , "Description"   : projectDescription
79                 , "Projectleider" : pl
80                 , " "            : pl                                <PersonEmail>
81                 , "Started"       : projectStarted                    <ProjectStarted>
82                 ]
83
84 INTERFACE "People" (member) FOR "Planner" : V[SESSION*Person]
85     BOX <SCOLS> [ "Person"       : I[Person]
86                 , "Name"        : personName
87                 , "Email"       : personEmail
88                 , "Projects"    : member~
89                 ]
90
91 -- Other interfaces
92 INTERFACE "Project" (projectName, projectDescription, pl, projectStartDate,
93 projectStarted, member, pplStartDate, pplProject) FOR "Planner" : I[Project]
94     ROWS [ "Project"          : I[Project]
95           , "Name"           : projectName
96           , "Description"    : projectDescription
97           , "Start date"     : projectStartDate
98           , "Current PL"     : pl
99           , "Administration" : I[Project]
100     TABS [ "Project leaders" : pplProject~
101           COLS [ "Name"      : pplPerson;personName
102                 , "Status"   : pplPerson;personStatus
103                 , "Email"    : pplPerson;personEmail
104                 , "Pl from"  : pplStartDate
105                 ]
106           , "Project members" : member
107           ]
108     ]
109
110 INTERFACE "Person" (personName, personStatus, personEmail) FOR "Planner" : I[Person]
111     ROWS [ "Name"          : personName
112           , "Status"      : personStatus
113           , "Email"       : personEmail
114           , "Works with" : workswith
115           ]
116
117 -- Specific views
118 VIEW PersonEmail : Person { email : personEmail } HTML TEMPLATE "PersonEmail.html"
119 ENDVIEW
120 VIEW ProjectStarted : Project {val : I} HTML TEMPLATE "Relation-PROP.html" ENDVIEW
121
122 ENDCONTEXT

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