DAO processes:

Get Employee

Participants: ec1-EmployeeController, edm1-EmployeeDataMapper, etl1-EmployeeTypeLink, etDataMapper-EmployeeTypeDataMapper, e1-Employee

- 1: get(id)
- 1.1: get(id)
- 1.1.1: type

alt [type !=null]
- 1.2A: get(id)
- 1.2.1A get from the IdentityMap

  alt [employee existed in the identityMap]
  - 1.2.2AA: e1-Employee
  - 1.3AA: e1-Employee
  - 1.2.1AB <<create>> → e2-Employee
  - 1.2.2 AB: e2-Employee
  - 1.3AB: e2-Employee

alt [type == null]
- 1.2B: null

Get Constraint

Participants: cc1-ConstraintController, cdm1-ConstrinatDataMapper, c2-Constrint

- 1: get(date,shitType)
- 1.1: serch in the identityMap

alt [instance found in the identity map]
- 1.2A: c2-Constrint

alt [constraint(date,shiftType) is saved in the db]
- 1.2BA: <<create>> → c1-Constraint
- 1.3BA: c1-Constraint

[constraint (date,shiftType) was never saved in the db]
- 1.2BB: null

Save Employee In DB

Participants: ec1-EmployeeController, edm1-EmployeeDataMapper, e1-Employee, etdm1-EmployeeTypeDataMapper

- 1: save(e1-Employee)
- 1.1 save(this)
- visitor pattern
- 1.1.1: save(this)
- 1.1.1.1: save(e1-Employee)

alt [ ]
- save success

[error occurde]
- 1.2 B: error msg

Update Constraint

Participants: cc-ConstrintController, c1-Constrint, edm1-ConstrintDataMapper

- 1.1 updateValue(newValue)
- 1.2: update(propertyName,c1-Constrinte)

alt [no errors]
- 1.2.1B: error msg