

Lecture 8 - IADI 18 Nov 2021 //

2.

```
mockMvc.perform(get("/rooms/" + roomId))
    .andExpect(status().isOk()) → assertEquals
    .andExpect(content().string("{roomId:1,description:'... name:'Bighu'"))
    .andExpect(jsonPath("$.name").is("BIG Suite Name"))
```

\$ → the root of the result

• \$.name
[] jsonPath(\$, is("Bla"))

(\$[0], is(...))
= (1, 7)

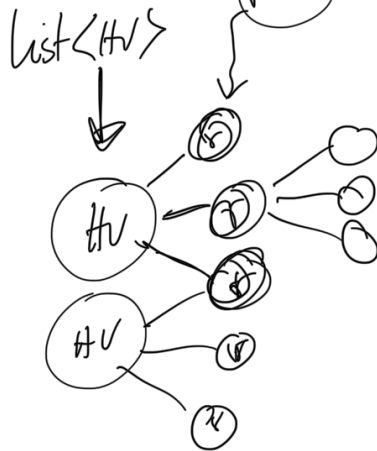
3.

```
data class HotelVisit {
    @Id @GeneratedValue var id: Long,
    var name: String,
    @ManyToMany var rooms: List<Room>,
    var startDate: Date
    var endDate: Date
}
```

```
@Query('select (v) from HotelVisits inner join fetch v.rooms where v.startDate between :start and :end or v.endDate between :start and :end')
```

and : end")
 fun find visits Between Start Date And End Date (start: Date, end: Date)
 : list<Hotel Visit>

@Query("select r from HotelVisits ✓
 inner join ~~fetch~~ v.rooms r
 where") : list<Room>



Part 2

Q5

@Entity
 data class ExpenseReportDAO {
 @Id @GeneratedValue id: Long,
 description: String,
 date: Date,
 amount: Int,
 state: ERState

enum ERState
 {
 Created,
 Submitted,
 Approved,
 Paid
 }

@ManyToOne employee: Employee)

data class Employee {
 @Id @GeneratedValue id: Long,
 name: String,

@ManyToOne department: Department,
 @OneToMany expenseReports: list<ExpenseReport>)

```

class Department(
    @Id @GeneratedValue id: Long,
    @OneToOne name: String,
    @ManyToOne headOfDep: Employee
    @OneToMany employees: List<Employee>
)

```

Q4

```

@RequestMapping("/reports")
interface ExpenseReportAPI : GenAPI<...> {

    @GetMapping("")
    fun getAll(): List<ExpenseReportsListDTO>

```

? ~~@PostMapping("")~~
~~fun addOne()~~

1. GET /reports ←

```
@GetMapping("/reports")
fun getAllReports(): List<ReportListDTO>
```
2. GET /reports/id

```
@GetMapping("/reports/{id}")
fun getOne(id: Long): ReportLongOptional<...>
```
3. PUT /reports/id (ex: Approve, Edit) ←

```
@PutMapping("/reports/{id}")
fun update(id: Long, report: ReportLongOptional<...>): ReportLongOptional<...>
```

DELETE /reports/

4. GET /employees/id/reports ← reports of emp
5. POST /employees/id/reports ← new Report for employee

@PostMapping("/employees/{id}/reports")
fun addOne(@PathVariable id,
@RequestBody report: Report

6. GET /departments/id/reports? state = "submitted"
or
"approved"
or
"pending"
- or
- GET /departments/id/submittedReports

→ val id: long
data class ReportListDTO(val description: String,
val date: Date,
val amount: Int,
→ val state: ERState,
→ val employee-id: long)

data class ReportDTO(...)

data class ReportLongDTO(...)

link to employee (String object?)

full employee information + just the name

Q6

1. Heads of department can only approve ER in the state "submitted" and from their employees

@PreAuthorize(CanEditER. condition)

@implies CanEditExpenseReport {

object companion {

val condition = " id principal report
@mySecurityService. DownER(id, prin
or
@ - - - . I can Approve ER(id, princip
report)
?"

}

[@PutMapping ("/reports/{id}")
fun editOne (@PathVariable id: long,
@RequestBody report: ReportDTO): Void

@Service
class SecurityService (reports: RepoReports)

fun DownER (id: long, principal: Principal): Boolean

=

reports. findById (id)

. orElseReturn (false)

. let { it: ReportDTO

it. employee. username == principal
. username

&&

it. shite == ERShite. created

{

... I can Approve ER (id: long

given - 10/10

principal : Principal &
report : ReportDTO))

```
=
reports.findById(id)
  .orElseReturn(false)
  .let { it: ReportDAO ←
    it.state == ERState.SUBMITTED
    &&
    it.employee.department.headOfDep.
                                username
    == principal.username
    &&
    report.amount == it.amount
    &&
    report.desc == it.description
    &&
    report.date == it.date
    &&
    report.state == ERState.APPROV
  }
}
```

2. Employees can only see their ERS.