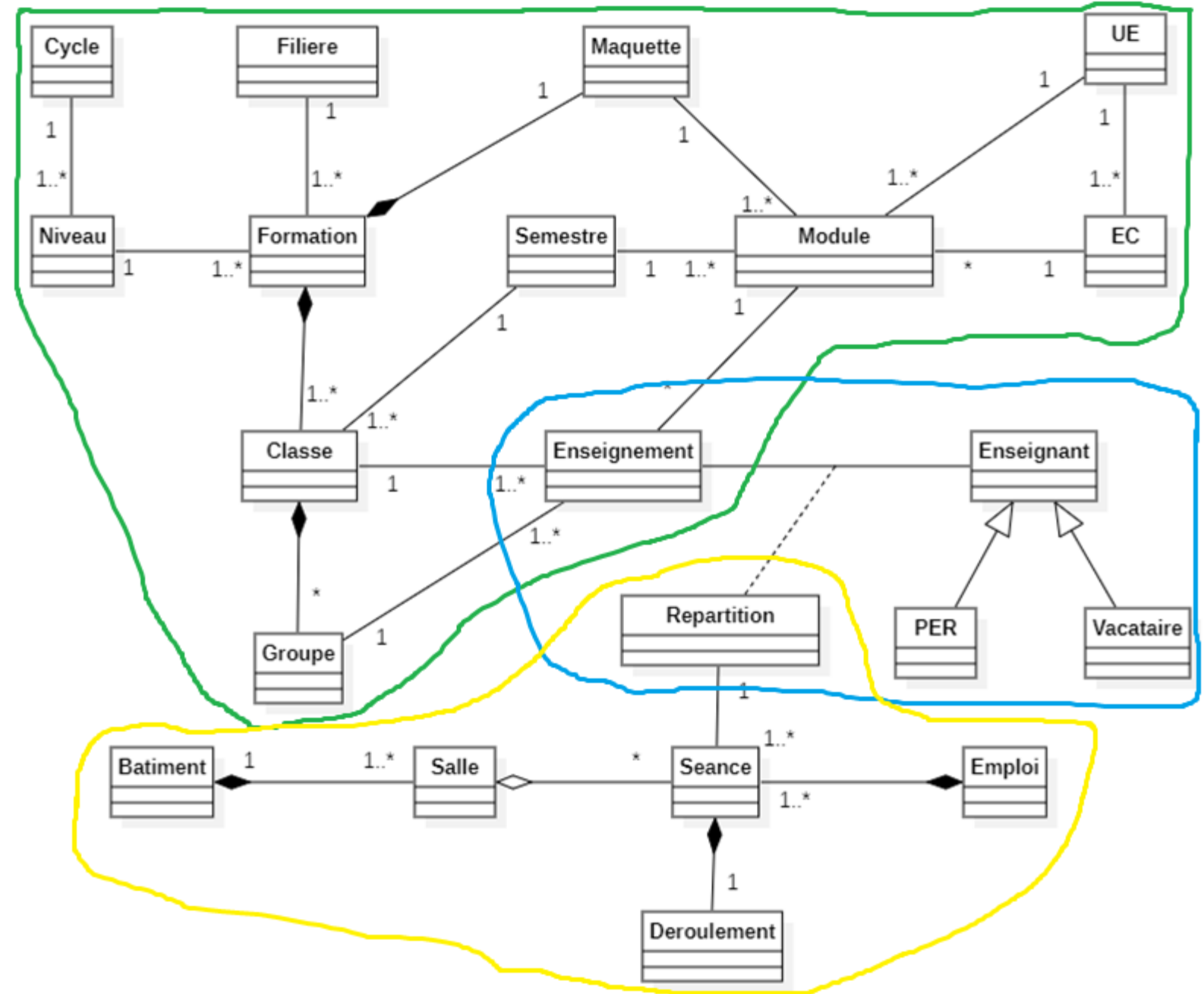


DAOS

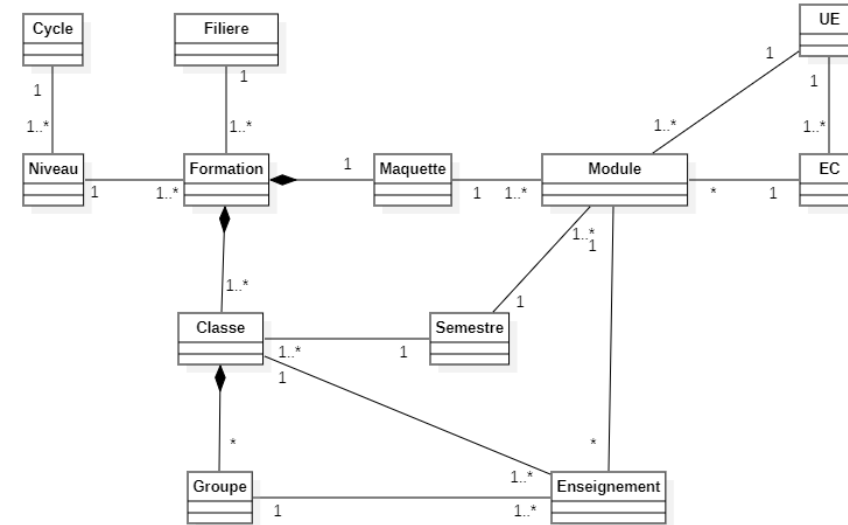
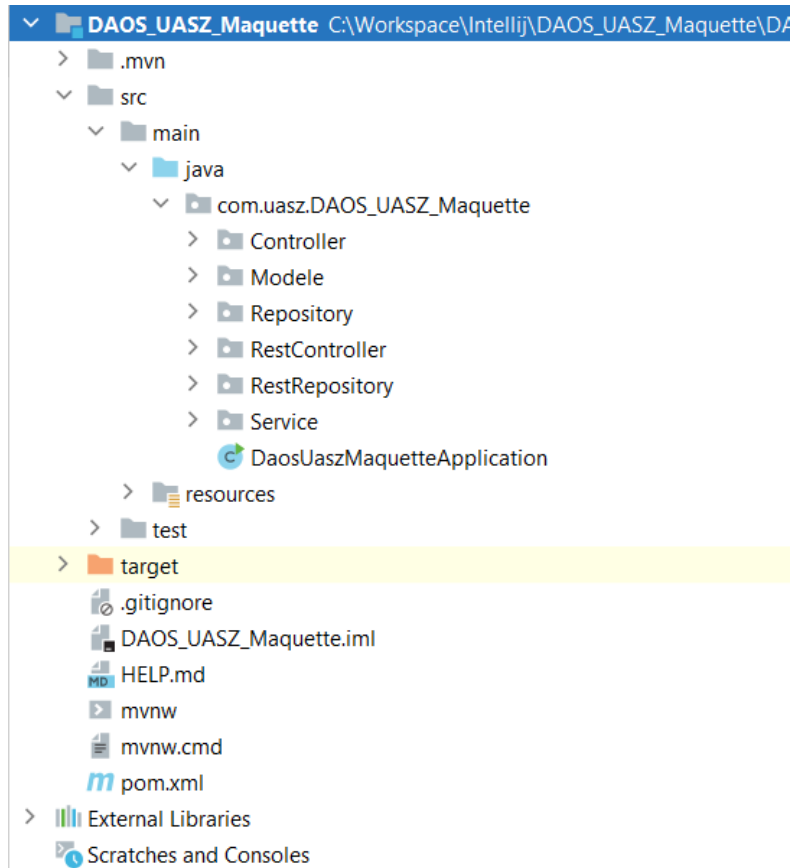
■ package Maquette

■ package Répartition

■ package Emploi du temps

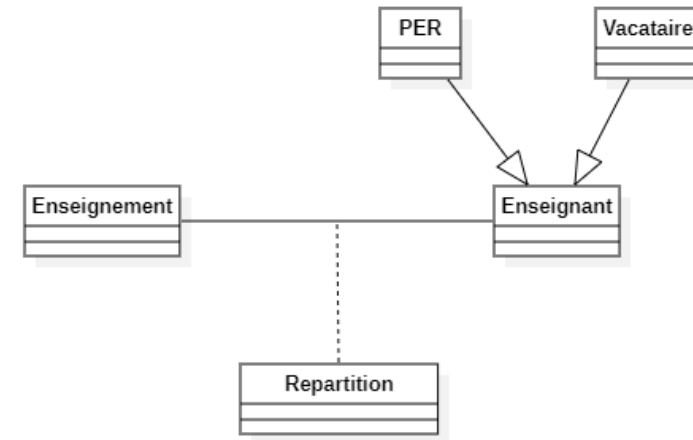
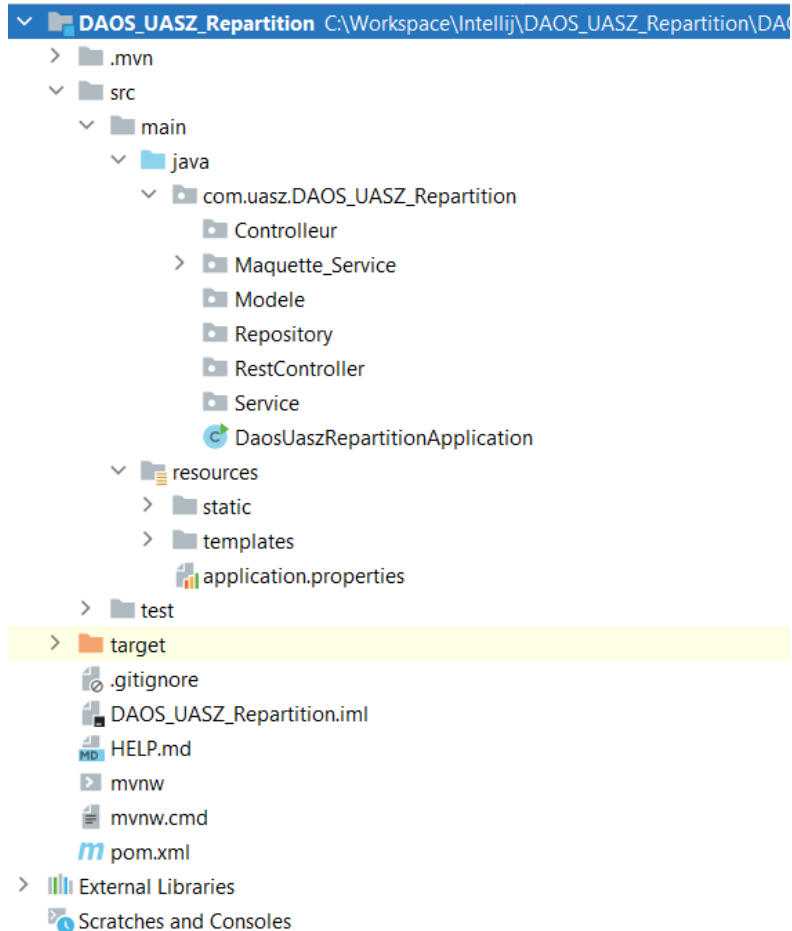


Micro service Maquette



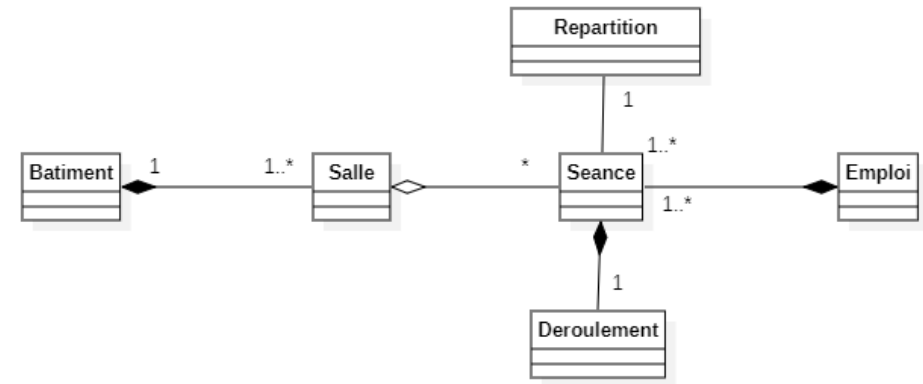
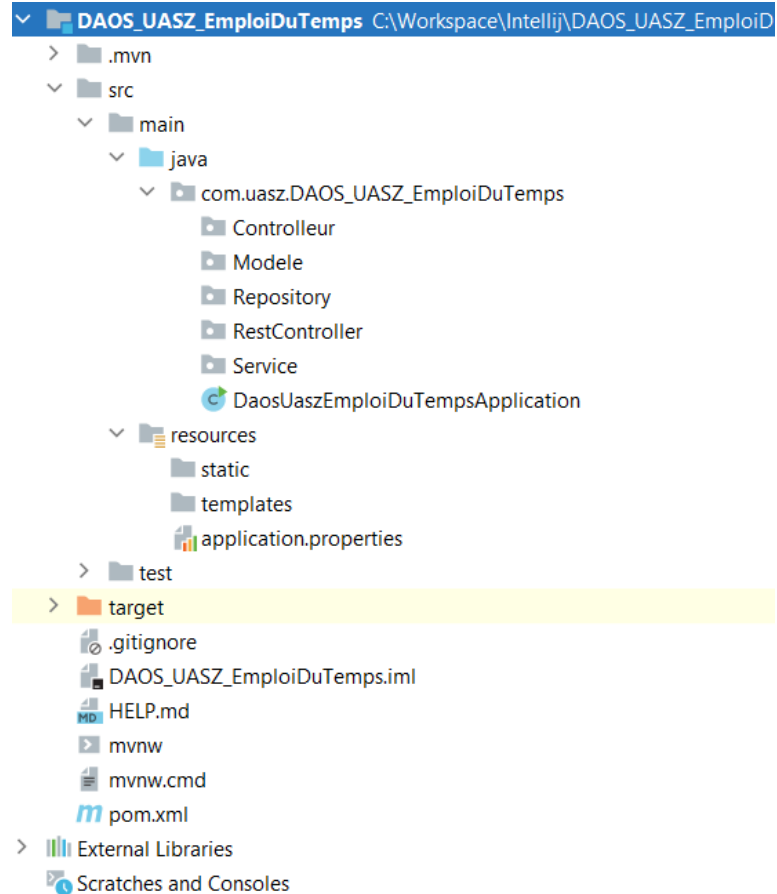
```
spring.application.name=maquette-service
server.port=8081
spring.datasource.driverClassName=org.h2.Driver
spring.datasource.url=jdbc:h2:mem:maquette-db
#SSSSspring.jpa.hibernate.ddl-auto=update
spring.jpa.show-sql=true
spring.h2.console.enabled=true
spring.h2.console.path=/h2
```

Micro service Répartition



```
spring.application.name=repartition-service
server.port=8082
spring.datasource.driverClassName=org.h2.Driver
spring.datasource.url=jdbc:h2:mem:repartition-db
#SSSspring.jpa.hibernate.ddl-auto=update
spring.jpa.show-sql=true
spring.h2.console.enabled=true
spring.h2.console.path=/h2
```

Micro service EmploiDuTemps



```
spring.application.name=emploiDuTemps-service
server.port=8083
spring.datasource.driverClassName=org.h2.Driver
spring.datasource.url=jdbc:h2:mem:emploiDuTemps-db
#SSSSpring.jpa.hibernate.ddl-auto=update
spring.jpa.show-sql=true
spring.h2.console.enabled=true
spring.h2.console.path=/h2
```

Feign Client

```
<dependency>
  <groupId>org.springframework.cloud</groupId>
  <artifactId>spring-cloud-starter-openfeign</artifactId>
</dependency>
```

```
<dependencyManagement>
  <dependencies>
    <dependency>
      <groupId>org.springframework.cloud</groupId>
      <artifactId>spring-cloud-dependencies</artifactId>
      <version>${spring-cloud.version}</version>
      <type>pom</type>
      <scope>import</scope>
    </dependency>
  </dependencies>
</dependencyManagement>
```

Ajouter ces dépendances dans le pom.xml de chaque micro service

RestController : UE dans MS Maquette

```
@CrossOrigin(origins = "*", allowedHeaders = "*")
@RestController
@RequestMapping("/maquette")
public class ueRestController {

    5 usages
    @Autowired
    private UEService ueService;

    @GetMapping(path = "/ue")
    public List lister_ue(){
        return ueService.lister_UE();
    }

    @GetMapping(path = "/ue/{id}")
    public UE rechercher_ue(@PathVariable Long id){
        return ueService.rechercher_UE(id);
    }
}
```

```
@PostMapping(path = "/ue")
public UE ajouter_ue(@RequestBody UE ue){
    return ueService.ajouter_UE(ue);
}

@PutMapping(path = "/ue/{id}")
public UE modifier_ue(@RequestBody UE ue, @PathVariable Long id){
    return ueService.modifier_UE(ue, id);
}








@DeleteMapping(path = "/ue/{id}")
public void supprimer_ue(@PathVariable Long id){
    ueService.supprimer_UE(id);
}
}
```

Postman / Lister tout les UE

The screenshot displays the Postman application interface. At the top, a request bar shows the method **GET** and the URL `localhost:8081/maquette/api/ue`. A blue **Send** button is on the right. Below the request bar, tabs for **Params**, **Authorization**, **Headers (6)**, **Body** (selected), **Pre-request Script**, **Tests**, and **Settings** are visible. On the far right, there are links for **Cookies** and **Beautify**. The **Body** tab shows a list of body types: **none**, **form-data**, **x-www-form-urlencoded**, **raw** (selected), **binary**, and **JSON** (with a dropdown arrow). Below this, a tab bar for the response shows **Body** (selected), **Cookies**, **Headers (8)**, and **Test Results**. To the right of the response tabs, the status is **Status: 200 OK**, with **Time: 225 ms** and **Size: 1.04 KB**. A **Save Response** button with a dropdown arrow is also present. The response body is displayed in a code editor with a **Pretty** tab selected. The JSON is formatted as follows:

```
1 [
2   {
3     "id": 1,
4     "libelle": "Reseaux et Telecoms",
5     "code": "INF351",
6     "credit": 8,
7     "coefficient": 4,
8     "description": "",
9     "dateCreation": "2024-02-19T13:04:39.142+00:00",
10    "ecs": []
11  },
12 ]
```


Maquette_Service dans le MS Répartition

- ▼  Maquette_Service
 - ▼  Controller
 -  UEController
 - ▼  Interface
 -  UEProxy
 - ▼  Modele
 -  UE

Modele : UE

```
@Data
@AllArgsConstructor
@NoArgsConstructor
public class UE {
    private Long id;
    private String libelle;
    private String code;
    private int credit;
    private int coefficient;
    private String description;
    private Date dateCreation;
}
```

Interface : UE

```
@FeignClient(name = "maquette-service", url = "localhost:8081")  
public interface UEProxy {
```

2 usages

```
@GetMapping(path = "/maquette/api/ue")  
List<UE> lister_ue();
```

```
@GetMapping(path = "/maquette/api/ue/{id}")  
UE rechercher_ue(@PathVariable Long id);
```

```
}
```

Le fichier Run du MS Repartition

```
@EnableFeignClients
@SpringBootApplication
public class DaosUaszRepartitionApplication implements CommandLineRunner {

    public DaosUaszRepartitionApplication(UEProxy ueProxy) {
        this.ueProxy = ueProxy;
    }

    public static void main(String[] args) { SpringApplication.run(DaosUaszRepartitionApplication.class, args); }

    2 usages
    private final UEProxy ueProxy;

    @Override
    public void run(String... args) throws Exception {
        System.out.println(ueProxy.lister_ue());
    }
}
```

Terminal

```
2024-02-19T13:08:24.948Z WARN 18320 --- [main] JpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open-in-view is enabled by default
2024-02-19T13:08:28.022Z INFO 18320 --- [main] o.s.b.a.e.web.EndpointLinksResolver      : Exposing 1 endpoint(s) beneath base path '/ac
2024-02-19T13:08:28.229Z INFO 18320 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat started on port 8082 (http) with conte
2024-02-19T13:08:28.279Z INFO 18320 --- [main] c.u.D.DaosUaszRepartitionApplication    : Started DaosUaszRepartitionApplication in 12.
[UE(id=1, libelle=Reseaux et Telecoms, code=INF351, credit=8, coefficient=4, description=, dateCreation=Mon Feb 19 13:07:57 UTC 2024), UE(id=2, lib
```









Controller : UE

```
@Controller
@AllArgsConstructor
public class UEController {

    1 usage
    private final UEProxy ueProxy;

    @RequestMapping(value = "/repartition/afficher_ue", method = RequestMethod.GET)
    public String lister_ue(Model model){
        List<UE> ueList=ueProxy.lister_ue();
        model.addAttribute( attributeName: "listeDesUE",ueList);
        return "afficher_ue";
    }
}
```

Vue : afficher_ue.html dans MS Répartition

   localhost:8082/repartition/afficher_ue   120 %   

La liste des UE

Ajouter UE

Show 10 entries Search:

Code	Libelle	Credits	Coefficient	Operations	Details
INF351	Reseaux et Telecoms	8	4	Modifier Supprimer	Voir
INF352	Genie Logiciel 1	8	4	Modifier Supprimer	Voir
INF353	Technologies embarques et Mobiles (1)	8	4	Modifier Supprimer	Voir
INF354	Gestions de donnees structurees	8	4	Modifier Supprimer	Voir
INF355	Humanites et Entreprise	6	3	Modifier Supprimer	Voir

Showing 1 to 5 of 5 entries Previous 1 Next