DAOS
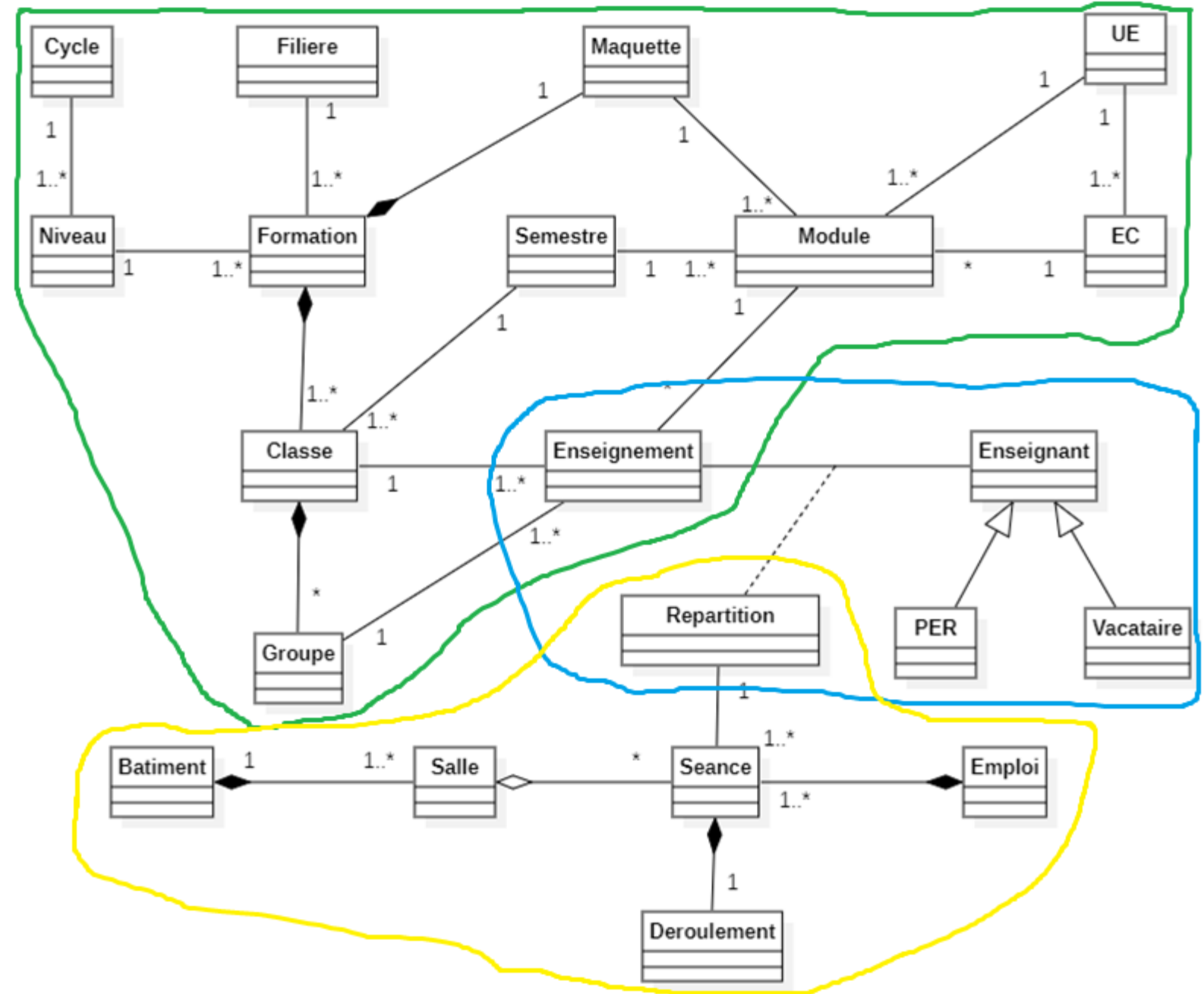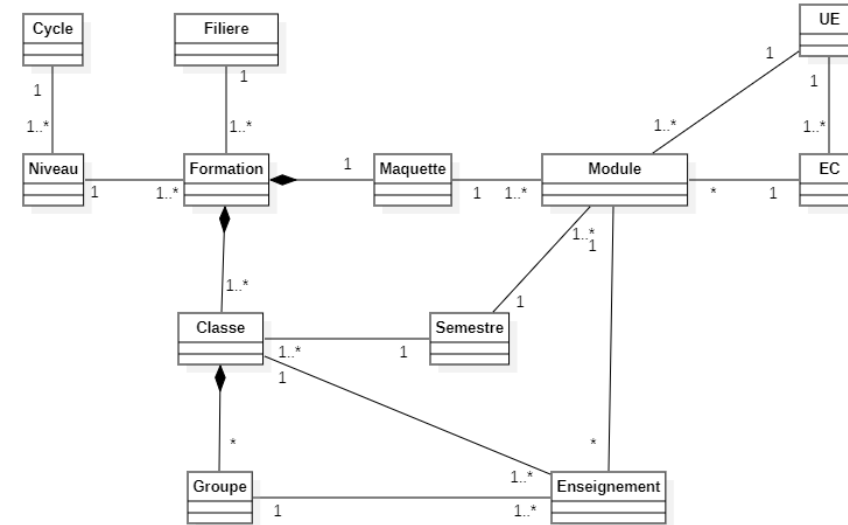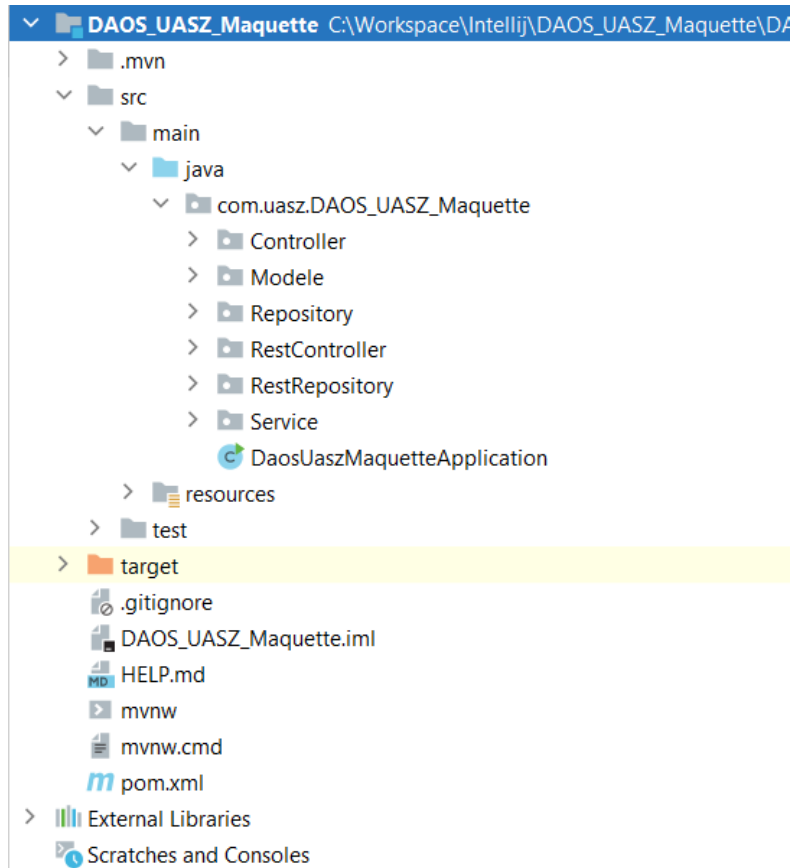
package Maquette

package Répartition

package Emploi du temps

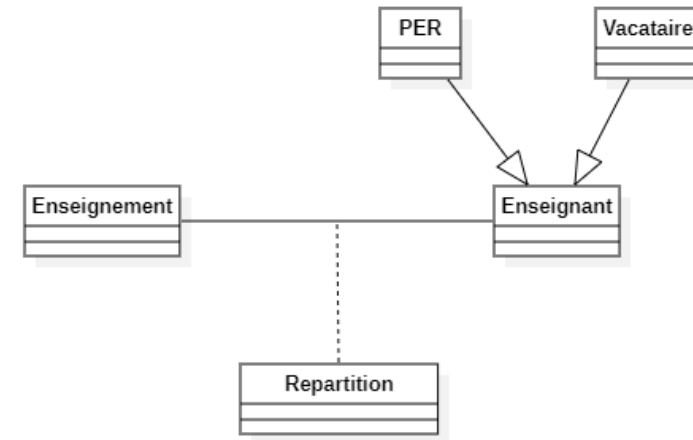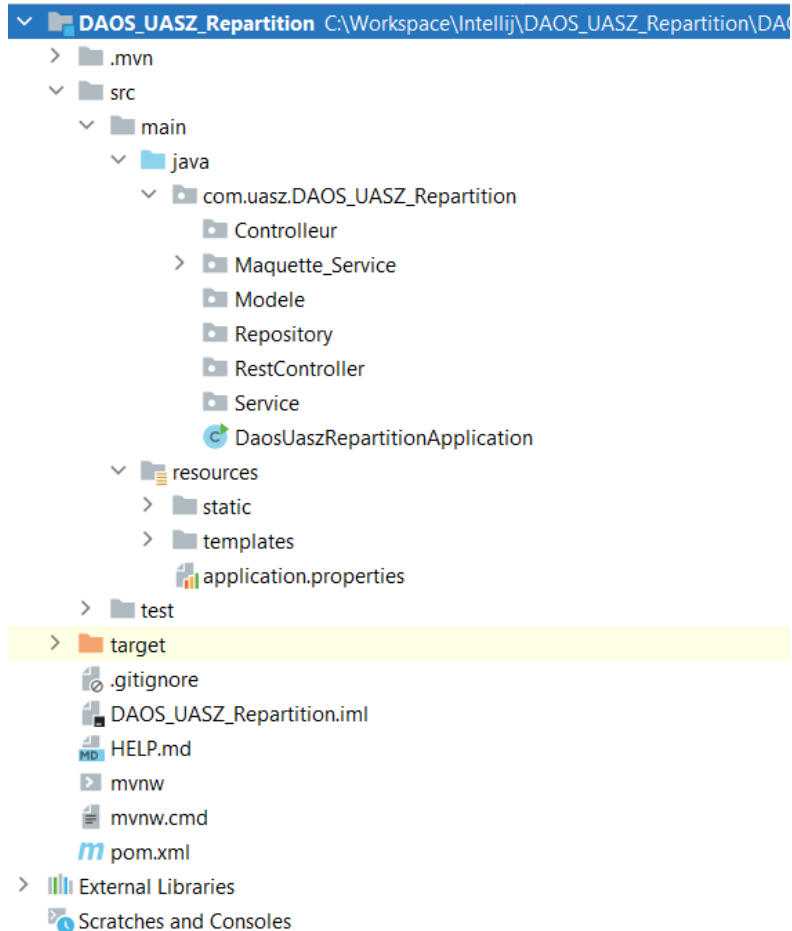# Micro service Maquette

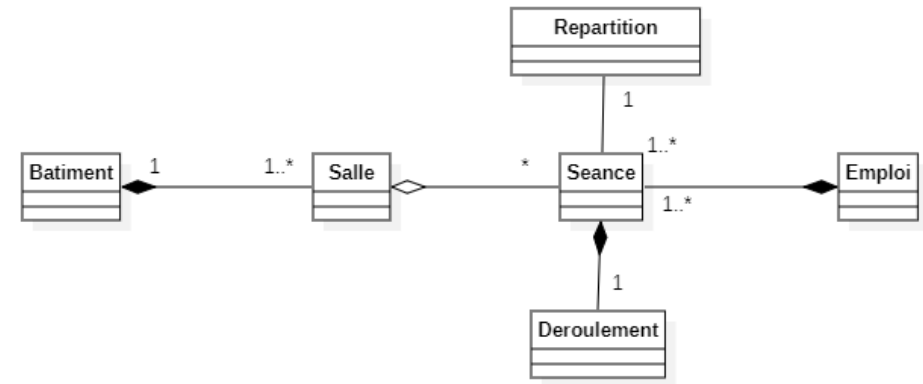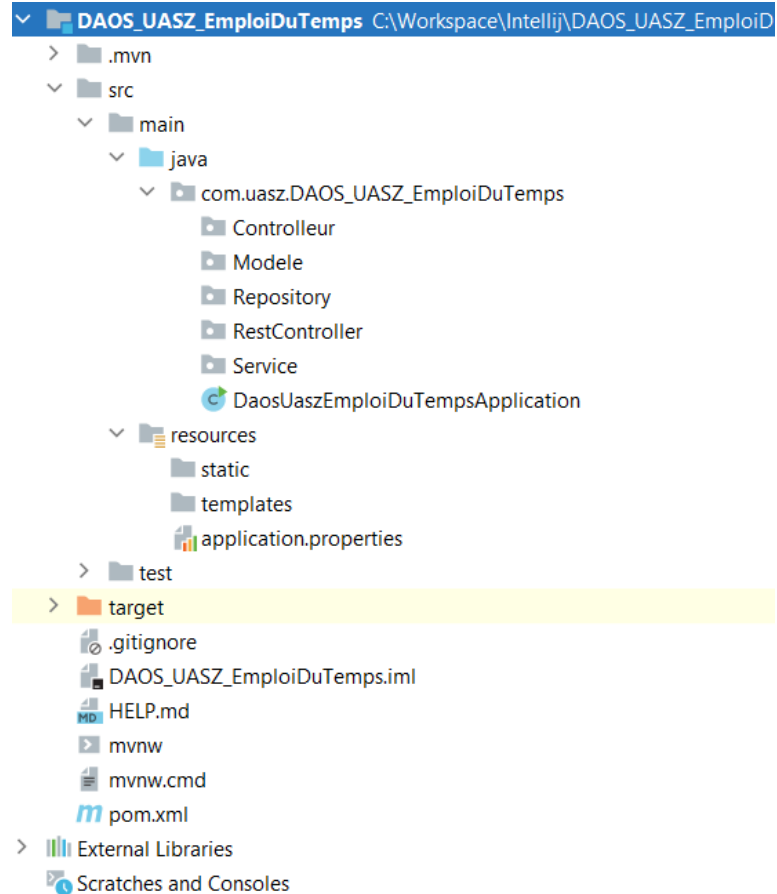# Micro service Répartition


```
✓ 📁 DAOS_UASZ_Repartition  C:\Workspace\Intellij\DAOS_UASZ_Repartition\DAC
  > 📁 .mvn
  ✓ 📁 src
    ✓ 📁 main
      ✓ 📁 java
        ✓ 📁 com.uasz.DAOS_UASZ_Repartition
          📁 Controlleur
          > 📁 Maquette_Service
          📁 Modele
          📁 Repository
          📁 RestController
          📁 Service
          ⓒ DaosUaszRepartitionApplication
      ✓ 📁 resources
        > 📁 static
        > 📁 templates
        📄 application.properties
    > 📁 test
  > 📁 target
  📄 .gitignore
  📄 DAOS_UASZ_Repartition.iml
  📄 HELP.md
  📄 mvnw
  📄 mvnw.cmd
  📄 pom.xml
  > 📊 External Libraries
  📊 Scratches and Consoles
```



```
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

```
DAOS_UASZ_EmploiDuTemps  C:\Workspace\IntelliJ\DAOS_UASZ_EmploiD
  .mvn
  src
    main
      java
        com.uasz.DAOS_UASZ_EmploiDuTemps
          Controlleur
          Modele
          Repository
          RestController
          Service
          DaosUaszEmploiDuTempsApplication
      resources
        static
        templates
        application.properties
    test
  target
  .gitignore
  DAOS_UASZ_EmploiDuTemps.iml
  HELP.md
  mvnw
  mvnw.cmd
  pom.xml
External Libraries
Scratches and Consoles
```



```
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

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

```xml
<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

```java
@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);
    }
```

```java
    @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

Maquette_Service dans le MS Répartition

Modele : UE

```java
@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

```java
@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

```java
@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

```java
@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