Plan

- ☐ STRUCTURE DES PROJETS SPRING BOOT
- EXECUTION DE PROJET SB
- ☐ LES ANNOTATIONS SB
- ORGANISATION DE NOS PROJETS
- ☐ CONNECTION AUX BASES DE DONNEES AVEC JPA
- ☐ MISE EN PRATIQUE(PROJET)
- DEPLOIEMENT

Structure des projets Spring Boot

Exécution des projets Spring Boot

Les Annotations de Spring Boot

@Configuration

@ComponentScan

@EnableAutoConfiguration

@SpringBootApplication

@Bean

@Component

@Autowired

@RestController

@RequestMapping

@GetMapping

@PostMapping

@PutMapping

@DeleteMapping

@RequestParam

@PathVariable

@Service

@Repository

Organisation de nos projets Spring Boot

Connexion aux bases de données(JPA)

JPA- Starter

Starter

```
<dependency>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-starter-data-jpa</artifactId>
</dependency>
```

JPA- H2

Starter

```
<dependency>
  <groupId>com.h2database</groupId>
  <artifactId>h2</artifactId>
    <scope>runtime</scope>
</dependency>
```

Configuration

```
spring.datasource.url=jdbc:h2:mem:testdb
spring.datasource.driverClassName=org.h2.Driver
spring.datasource.username=sa
spring.datasource.password=password
spring.jpa.database-platform=org.hibernate.dialect.H2Dialect
spring.jpa.show-sql=false
spring.jpa.properties.hibernate.format_sql=true
```

JPA- MySql

Starter

JPA- MySql

Configuration

```
spring.datasource.url=jdbc:mysql://adress:port/db_name?useSSL=false
spring.datasource.username=
spring.datasource.password=
spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
spring.jpa.properties.hibernate.dialect = org.hibernate.dialect. MySQL8Dialect
spring.jpa.hibernate.ddl-auto=update
spring.jpa.show-sql=false
spring.jpa.properties.hibernate.format_sql=true
```

JPA- Oracle

Starter

JPA- Oracle

Configuration

```
spring.datasource.url= jdbc:oracle:thin:@//adress:port/dbname
spring.datasource.username=
spring.datasource.password=
spring.datasource.driverClassName=oracle.jdbc.OracleDriver
spring.jpa.properties.hibernate.dialect = org.hibernate.dialect.Oracle12cDialect
spring.jpa.hibernate.ddl-auto=update
spring.jpa.show-sql=false
spring.jpa.properties.hibernate.format_sql=true
```

JPA- Postgress

Starter

```
<dependency>
  <groupId>org.postgresql</groupId>
  <artifactId>postgresql</artifactId>
    <scope>runtime</scope>
</dependency>
```

JPA- Postgress

Configuration

```
spring.datasource.url=jdbc:postgresql://adress:port/dbname
spring.datasource.username=
spring.datasource.password=
spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.PostgreSQLDialect
spring.jpa.hibernate.ddl-auto=update
spring.jpa.show-sql=false
spring.jpa.properties.hibernate.format_sql=true
```

@Entity

@Table

@Column

@ld

@OneToOne

```
⊞import ....
       * Created by sitamarga on 8/10/18.
      @Entity
      public class Bateau implements Serializable {
       ₽ (0{...}
16 😭
          private Long id;
18 📵
          private String name;
          @OneToOne(cascade= CascadeType.ALL)
          @JoinColumn(name = "comm_id")
          @JsonIgnoreProperties("bateau")
23 🗳
          private Commandant commandant;
          //Getters and Setters
```

```
⊞import ...
       * Created by sitamarga on 8/10/18.
      @Entity
      public class Commandant {
          @Id
          @GeneratedValue(strategy = GenerationType.AUT0)
          private Long id;
L5 🕞
  a
          private String name;
          @OneToOne(mappedBy = "commandant")
          @JsonIgnoreProperties("commandant")
  6
          private Bateau bateau;
       23
```

@OneToMany
@ManyToOne

```
* Created by sitamarga on 8/12/18.
      @Entity
      public class Article {
          @Id
          @GeneratedValue(strategy = GenerationType.AUT0)
  ₽
          private Long id;
19 📵
          private String libelle;
          @OneToMany(mappedBy = "article", cascade = CascadeType.PERSIST)
          @JsonIgnoreProperties("article")
          private List<Commentaire> commentaires = new ArrayList<>();
  6
          //Getters and Setters
```

```
* Created by sitamarga on 8/12/18.
       @Entity
       public class Commentaire {
           @Id
           @GeneratedValue(strategy = GenerationType.AUT0)
           private Long id;
  26
           private String libelle;
          @ManyToOne(cascade = CascadeType.ALL)
19
           @JoinColumn(name = "art_id", referencedColumnName = "id")
           @JsonIgnoreProperties("commentaires")
           private Article article;
   6
           //Getters and Setters
```

@ManyToMany

```
A4 ×4 ^
   @Entity
  public class Classe {
       @GeneratedValue(strategy = GenerationType.AUT0)
       private Long id;
60
       private String nom;
       @ManyToMany
       @JoinTable(name = "class_enseign",
                  joinColumns = @JoinColumn(name = "claas_id", referencedColumnName = "id"),
                  inverseJoinColumns = @JoinColumn(name = "ens_id", referencedColumnName = "id"))
       private List<Enseignant> enseignants = new ArrayList<>();
```

```
±import ...
       * Created by sitamarga on 8/12/18.
      @Entity
      public class Enseignant {
          @Id
          @GeneratedValue(strategy = GenerationType.AUTO)
          private Long id;
 .5 🤓
          private String matricule;
  a
          @ManyToMany(mappedBy = "enseignants")
          private List<Classe> classes = new ArrayList<>();
20 🌮
       22
```

Requettes JPA (JPQL)

Projet de démo

Deploiement

Fin