1. **所需的工作環境**
   1. **Jdk 11以上**
   2. **Eclipse java EE**
   3. **Web server🡪tomcat**
   4. **Mysql8.0**
2. **Maven server liberary**
   1. **管理 jar套件**
   2. **Maven repository**
3. **Eclipse java EE 之 Maven project**
   1. **Build path🡪servlet**
   2. **Pom.xml**
4. **ORM(Object Relational Mapping)系列框架**
   1. **SQL語法**
   2. **JDBC套件化**
   3. **JPA(Hibernate)**
   4. **Mybatis**
5. **ORM-JPA框架**
   1. **Pom.xml->hibernate**
   2. **Persistence.xml🡪需置放在 META-INF資料夾中**
      1. 設定Jdbc的 getConnection+connection的意思
      2. Persistence unit name
      3. Driver
      4. url
      5. user
      6. password
   3. **Model(VO,Entity,PO)🡪每個對應資料庫的class**
      1. @Entity
      2. @Table
      3. @Id
      4. @GeneratedValue(grategy=GenerationType.identity)
   4. **Dao(CRUD)🡪JPA API文件**
      1. 確定連線成功->persistence物件
         1. createEntityManagerFactory
         2. EntityManager
      2. CRUD方法->EntityManager提共
         1. create新增persist
            1. 搭配EntityTransaction->begin , commit
         2. read查詢
            1. Find
            2. Query

JPQL

createQuery

使用SQL語法

createNativeQuery

setparameter

* + - 1. update修改
         1. 搭配EntityTransation
         2. Merge
      2. Delete刪除
         1. 搭配EntityTransation
         2. remove