Day 7: 28 September 2024

**Spring Boot JPA Data**

Spring boot internally use ORM(JPA and Hibernate) and created new modules ie Spring boot JPA Data. They provided two main interfaces.

CrudRepository

JpaRepository

These interfaces based upon java 8 features which internally provided implementation for All standard DAO methods. Like save, find,delete,saveAndFlush(like merge or update). So if we use JpaRepository or CrudRepository we are not going to write single line code for Database. They provided abstraction for DAO layer.

CrudRepository : Generic Repository for all orm tools.

JpaRepository : Specific repository for JPA implementation.

Generic type 1st parameter Entity class and 2nd parameter data type of variable that variable consider as PK.

@Repository

public interface ProductRepository extends JpaRepository<Product,Integer>{

set of standard default implementation methods.

}

But some time if we need some custom method we can write base upon the requirements. Those method with @query annotation and JPA query.

SB-Jpa-Data-Relationship

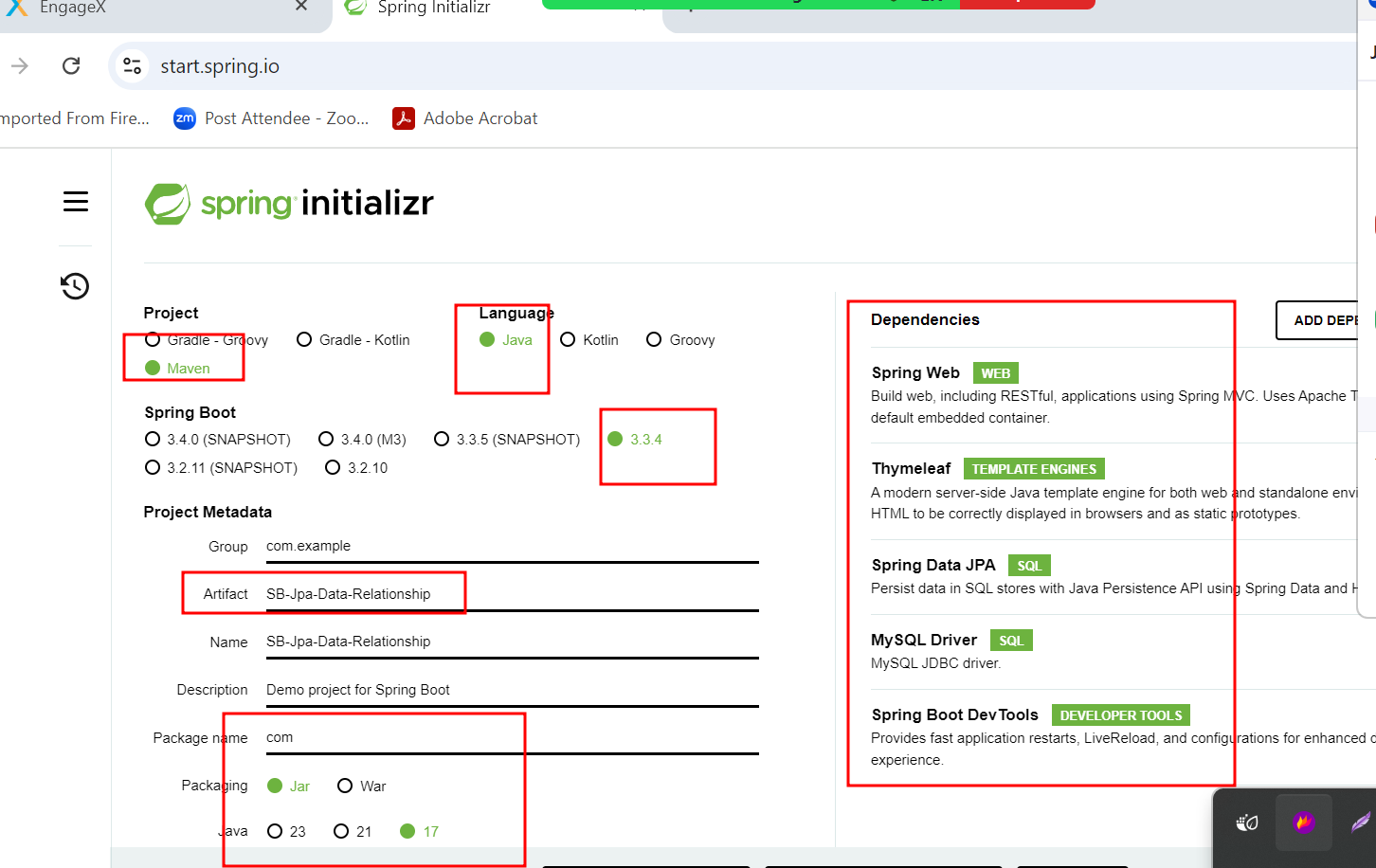
Starter -🡪Web web application

Starter 🡪 Thymeleaf as view

Starter 🡪 Jpa for ORM as well as Spring JPA Data

Dependency 🡪 MySQL

Starter 🡪Dev tool (if we do any changes in project automatically refresh the application).



Trainer and Student (one to many relationship)

Project and Employee (one to many relationship)

Trainer

TId(PK) TName Tech

100 Raj Java

101 Ravi Python

Student

SID(PK) SName Age TSID(FK)

1 Seeta 24 100

2 Meeta 26 100

3 Reeta 27 101

4 Leeta 28 null

**In DB FK can hold null value**