**SETTING UP JAVA PROJECT:**

**1: STS -> Create new Spring Starter Project**

**2: Maven – 17 – War – Java**

**3: Spring Boot DevTools – Spring Web – Spring Data JPA – MySQL Driver**

**Application.properties:**

spring.mvc.view.prefix=/WEB-INF/

spring.datasource.url=jdbc:mysql://localhost:3306/

spring.datasource.username=root

spring.datasource.password=rootroot

spring.jpa.hibernate.ddl-auto=update

spring.mvc.hiddenmethod.filter.enabled=true

**pom.xml:**

<dependency>

<groupId>javax.servlet</groupId>

<artifactId>jstl</artifactId>

</dependency>

<dependency>

<groupId>org.apache.tomcat.embed</groupId>

<artifactId>tomcat-embed-jasper</artifactId>

</dependency>

<dependency>

<groupId>org.mindrot</groupId>

<artifactId>jbcrypt</artifactId>

<version>0.4</version>

</dependency>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-validation</artifactId>

</dependency>

<dependency>

<groupId>org.webjars</groupId>

<artifactId>webjars-locator</artifactId>

<version>0.46</version>

</dependency>

<!-- BOOTSTRAP DEPENDENCIES -->

<dependency>

<groupId>org.webjars</groupId>

<artifactId>bootstrap</artifactId>

<version>5.2.3</version>

</dependency>

**IN THE JSP FILE ITSELF:**

<%@ taglib prefix = "c" uri = "http://java.sun.com/jsp/jstl/core"%>

**STATIC CONTENT:**

src/main/resources/static/css/foldername.css

**IN THE HEAD TAG**

<link rel=”stylesheet”type=”text/css”href=”/css/foldername.css”>

**Bootstrap:**

**IN THE HEAD TAG:**

<link rel="stylesheet" href="/webjars/bootstrap/css/bootstrap.min.css" />

**Models: -structure of our Data**

Package inside src/main/java/com/codingdojo/projectname/models/(thing.java)

Optional:

@PrePersist

protected void onCreate(){

this.createdAt = new Date();

}

@PreUpdate

protected void onUpdate(){

this.updatedAt = new Date();

}

}

FOR FORMS:

<%@ taglib prefix="form" uri="http://www.springframework.org/tags/form" %>

<%@ page isErrorPage="true" %>

**Repository: -expose methods for us to use**

src/main/java/com/codingdojo/mvc/repositories/BookRepository.java

INTERFACE~~~~~~~~

extends CrudRepository<Item, Primary Key Type >

@Repository

Service : - business logic

src/main/java/com/codingdojo/mvc/services/BookService.java

@Service

Controller:- CRUD

src/main/java/com/codingdojo/mvc/controllers/BooksApi.java

@RestController/@Controller

@NotEmpty for STRING VALIDATORS ON METHOD

@Email ALREADY DOES REGEX FOR YOU

REMEMBER TO DATA BIND (@ModelAttribute) and Validate!(@Valid)

@Transient for confirm password