PE\_HSF302\_SUM25\_TrialExam\_Note

SUMMER 2025  
Subject: HSF302  
Duration: 90 minutes

1. **­­­­Working with DB connection string from application.properties**

spring.application.name=DemoLab01  
spring.datasource.url=jdbc:sqlserver://localhost:1433;databaseName= SonyStore2025DB;encrypt=true;trustServerCertificate=true;  
spring.datasource.username=sa  
spring.datasource.password=1234  
spring.datasource.driverClassName=com.microsoft.sqlserver.jdbc.SQLServerDriver  
spring.jpa.show-sql=true  
spring.jpa.hibernate.ddl-auto=update

spring.datasource.url=jdbc:sqlserver://localhost:1433;databaseName=Bookstore;encrypt=true;trustServerCertificate=true;  
spring.datasource.username=sa  
spring.datasource.password=sa123456  
spring.datasource.driver-class-name=com.microsoft.sqlserver.jdbc.SQLServerDriver  
  
spring.jpa.hibernate.ddl-auto=**create**  
spring.jpa.show-sql=true  
spring.jpa.properties.hibernate.format\_sql=true  
  
spring.thymeleaf.cache=false   
spring.thymeleaf.prefix=classpath:/templates/  
spring.thymeleaf.suffix=.html

1. **Working with the pom.xml**

<dependencies>  
 <dependency>  
 <groupId>com.microsoft.sqlserver</groupId>  
 <artifactId>mssql-jdbc</artifactId>  
 <scope>runtime</scope>  
 </dependency>  
  
 <dependency>  
 <groupId>org.hibernate</groupId>  
 <artifactId>hibernate-core</artifactId>  
 <version>6.5.2.Final</version>  
 </dependency>  
  
 <dependency>  
 <groupId>org.springframework.boot</groupId>  
 <artifactId>spring-boot-starter-web</artifactId>  
 <scope>provided</scope>  
 </dependency>  
  
 <dependency>  
 <groupId>org.springframework.boot</groupId>  
 <artifactId>spring-boot-starter-test</artifactId>  
 <scope>provided</scope>  
 </dependency>

<dependency>  
 <groupId>org.springframework.boot</groupId>  
 <artifactId>spring-boot-starter-data-jpa</artifactId>  
 <version>3.4.2</version>  
</dependency>

**<dependency>  
 <groupId>org.springframework.boot</groupId>  
 <artifactId>spring-boot-starter-validation</artifactId>  
</dependency>**

</dependencies>

1. **Config on SpringBootApplication project**

@SpringBootApplication  
@ComponentScan({"hsf302.se.fu.vn.controllers","hsf302.se.fu.vn.services"})  
@EnableJpaRepositories(basePackages = "hsf302.se.fu.vn.repositories")  
@EntityScan(basePackages = "hsf302.se.fu.vn")  
public class DemoLab01Application {  
 public static void main(String[] args) {  
 SpringApplication.run(DemoLab01Application.class, args);

}  
}

1. **Table**

|  |  |
| --- | --- |
| **Account** | |
| Id | long |
| Email | varchar(100) |
| Password | nvarchar(30) |
| Role | int |

|  |  |
| --- | --- |
| **Categoriy** | |
| Id | long |
| Name | nvarchar(50) |
| Description | nvarchar(100) |

|  |  |
| --- | --- |
| **Book** | |
| Id | long |
| Name | nvarchar(50) |
| AuthorName | nvarchar(50) |
| Quantity | int |
| Price | decimal |
| CreatedAt | datetime |
| CateId | long |

1. **Data**

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Email** | **Password** | **Role** |
| 1 | [ad@az.com](mailto:ad@az.com) | ad | 1 |
| 2 | [st@az.com](mailto:st@az.com) | st | 2 |
| 3 | [mb@az.com](mailto:mb@az.com) | mb | 3 |

|  |  |  |
| --- | --- | --- |
| **Id** | **Name** | **Description** |
| 1 | Đam mĩ | … |
| 2 | Kỹ năng sống | … |
| 3 | Tuổi hồng | … |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Id** | **Name** | **AuthorName** | **Quantity** | **Price** | **CreatedAt** | **CateId** |
| 1 | Tashiro, Cậu Đúng Thật Là! | Yamada | 10 | 98000 |  | 1 |
| 2 | Tình Ta Đơm Hoa Giữa Hạ | Kotaro | 10 | 76000 |  | 1 |
| 3 | Tuổi Trẻ Đáng Giá Bao Nhiêu | Rosie Nguyễn | 10 | 95000 |  | 2 |
| 4 | Mình Là Nắng Việc Của Mình Là Chói Chang | Kazuko Watanable | 10 | 76000 |  | 2 |
| 5 | Tôi Thương Mà Em Đâu Có Hay | Đoàn Thạch Biền | 10 | 50000 |  | 3 |

**7. Thymeleaf**

<html xmlns:th="http://www.thymeleaf.org">

<tr th:each="user : ${users}">  
 <td th:text="${user.username}"></td>  
</tr>

<div class="error-message" th:if="${error}" th:text="${error}">

<div class="form-group">  
 <label for="username">Username:</label>  
 <input type="text" name="username" id="username" th:field="\*{username}">  
 <span class="error-message" th:if="${#fields.hasErrors('username')}"  
 th:errors="\*{username}"></span>  
</div>

**NOTE : This session just for reference, student can use the other approach to do Practical Exam and student must change to run your program**