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.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);

}  
}

|  |  |
| --- | --- |
| **SonyProducts** | |
| ProductID | long |
| ProductName | nvarchar(50) |
| Price | int |
| Stock | int |
| CreatedAt | datetime |
| CateID | int |

1. **Table**

|  |  |
| --- | --- |
| **SonyAccounts** | |
| AccountID | int |
| Phone | nvarchar(13) |
| Password | nvarchar(10) |
| RoleID | int |

|  |  |
| --- | --- |
| **SonyCategories** | |
| CateID | int |
| CateName | nvarchar(50) |
| Status | nvarchar(10) |

1. **Data**

|  |  |  |  |
| --- | --- | --- | --- |
| AccountID | Phone | Password | RoleID |
| 1 | 0905111111 | @1 | 1 |
| 2 | 0905222222 | @1 | 2 |
| 3 | 0905333333 | @1 | 3 |

|  |  |  |
| --- | --- | --- |
| CateID | CateName | Status |
| 1 | HeadPhone | active |
| 2 | Cameras | active |
| 3 | TVs | active |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ProductID | ProductName | Price | Stock | CreatedAt | CateID |
| 1 | Alpha 1 II - Full-frame Mirrorless | 6000 | 3 | 2025-03-03 | 2 |
| 2 | Alpha 7C II – Full-frame | 2000 | 5 | 2025-04-04 | 2 |
| 3 | BRAVIA 8 OLED 4K HDR TV | 2500 | 10 | 2025-01-01 | 3 |
| 4 | LinkBuds Fit Truly Wireless Noise Canceling | 180 | 15 | 2025-03-03 | 1 |

**6. 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**