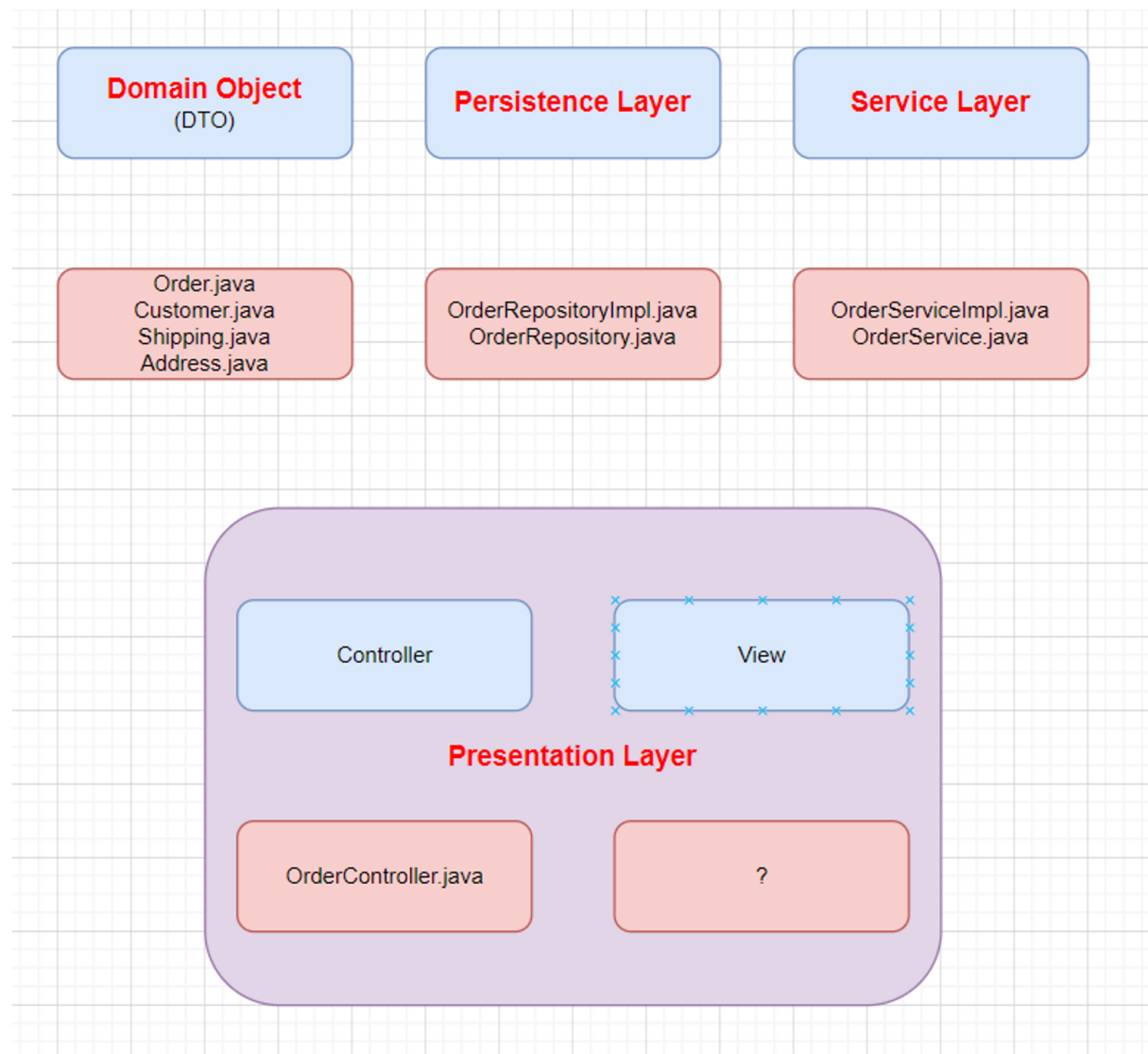


Class 230309

Spring - 8일차



▼ OrderRepositoryImpl.java

관련 클래스들 모두 직렬화

```
@SuppressWarnings("serial")  
public class CartItem implements Serializable {
```

```
@SuppressWarnings("serial")
public class Cart implements Serializable {
```

```
@SuppressWarnings("serial")
public class CarDTO implements Serializable {
    //private static final long serialVersionUID = 6754974598729825L;
```



지금은 편의상 domain 패키지를 만들어 플로우에 관련된 모든 클래스들을 위치 시키지만 원래는 service 별, dto 별, repository 별 로 각각 패키지를 만들어 사용하는 것을 권장한다.

▼ 주문처리와 관련된 새로운 클래스 4개 작성, 전부 직렬화

```
package com.carshop.domain;

import java.io.Serializable;

@SuppressWarnings("serial")
public class Address implements Serializable {

    private String detailName; //세부주소
    private String addressName; //주소
    private String country; //국가명
    private String zipCode; //우편번호

    public String getDetailName() {
        return detailName;
    }
    public void setDetailName(String detailName) {
        this.detailName = detailName;
    }
    public String getAddressName() {
        return addressName;
    }
    public void setAddressName(String addressName) {
        this.addressName = addressName;
    }
    public String getCountry() {
        return country;
    }
    public void setCountry(String country) {
        this.country = country;
    }
    public String getZipCode() {
        return zipCode;
    }
    public void setZipCode(String zipCode) {
        this.zipCode = zipCode;
    }

    @Override
    public int hashCode() {
        final int prime = 31;
        int result = 1;
        result = prime * result + ((addressName == null) ? 0 : addressName.hashCode());
        result = prime * result + ((country == null) ? 0 : country.hashCode());
        result = prime * result + ((detailName == null) ? 0 : detailName.hashCode());
        result = prime * result + ((zipCode == null) ? 0 : zipCode.hashCode());
        return result;
    }
    @Override
    public boolean equals(Object obj) {
        if (this == obj)
            return true;
        if (obj == null)
            return false;
        if (!(obj instanceof Address))
            return false;
        Address other = (Address) obj;
        return (addressName == null ? other.addressName == null : addressName.equals(other.addressName))
            && (country == null ? other.country == null : country.equals(other.country))
            && (detailName == null ? other.detailName == null : detailName.equals(other.detailName))
            && (zipCode == null ? other.zipCode == null : zipCode.equals(other.zipCode));
    }
}
```

```

        return false;
    if (getClass() != obj.getClass())
        return false;
    Address other = (Address) obj;
    if (addressName == null) {
        if (other.addressName != null)
            return false;
    } else if (!addressName.equals(other.addressName))
        return false;
    if (country == null) {
        if (other.country != null)
            return false;
    } else if (!country.equals(other.country))
        return false;
    if (detailName == null) {
        if (other.detailName != null)
            return false;
    } else if (!detailName.equals(other.detailName))
        return false;
    if (zipCode == null) {
        if (other.zipCode != null)
            return false;
    } else if (!zipCode.equals(other.zipCode))
        return false;
    return true;
}

}

```

```

package com.carshop.domain;

import java.io.Serializable;

@SuppressWarnings("serial")
public class Customer implements Serializable {

    private String customerId; //고객id
    private String name; //고객성명
    private Address address; //고객주소 객체
    private String phone; //고객전화번호

    //기본생성자
    public Customer() {
        this.address = new Address();
    }

    public Customer(String customerId, String name) {
        this();
        this.customerId = customerId;
        this.name = name;
    }

    public String getCustomerId() {
        return customerId;
    }

    public void setCustomerId(String customerId) {
        this.customerId = customerId;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public Address getAddress() {
        return address;
    }

    public void setAddress(Address address) {
        this.address = address;
    }

    public String getPhone() {
        return phone;
    }

    public void setPhone(String phone) {
        this.phone = phone;
    }
}

```

```

@Override
public int hashCode() {
    final int prime = 31;
    int result = 1;
    result = prime * result + ((customerId == null) ? 0 : customerId.hashCode());
    return result;
}

@Override
public boolean equals(Object obj) {
    if (this == obj)
        return true;
    if (obj == null)
        return false;
    if (getClass() != obj.getClass())
        return false;
    Customer other = (Customer) obj;
    if (customerId == null) {
        if (other.customerId != null)
            return false;
    } else if (!customerId.equals(other.customerId))
        return false;
    return true;
}
}

```

```

package com.carshop.domain;

import java.io.Serializable;
import java.util.Date;

import org.springframework.format.annotation.DateTimeFormat;

@SuppressWarnings("serial")
public class Shipping implements Serializable {

    private String name; //배송 받는 고객 이름
    @DateTimeFormat(pattern="yyyy/MM/dd") //날짜 패턴을 제한한다. 오류 발생
    private Date date; //java.util.date
    private Address address; // 배송 주소 객체

    //기본 생성자
    public Shipping() {
        this.address = new Address();
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public Date getDate() {
        return date;
    }

    public void setDate(Date date) {
        this.date = date;
    }

    public Address getAddress() {
        return address;
    }

    public void setAddress(Address address) {
        this.address = address;
    }
}

```

```

package com.carshop.domain;

import java.io.Serializable;

```

```

import com.carshop.controller.Cart;

@SuppressWarnings("serial")
public class Order implements Serializable {

    private Long orderId; //주문 아이디
    private Cart cart; //장바구니 객체
    private Customer customer; //고객 객체
    private Shipping shipping; //배송지 객체

    //기본 생성자
    public Order() {
        this.customer = new Customer();
        this.shipping = new Shipping();
    }

    public Long getOrderId() {
        return orderId;
    }

    public void setOrderId(Long orderId) {
        this.orderId = orderId;
    }

    public Cart getCart() {
        return cart;
    }

    public void setCart(Cart cart) {
        this.cart = cart;
    }

    public Customer getCustomer() {
        return customer;
    }

    public void setCustomer(Customer customer) {
        this.customer = customer;
    }

    public Shipping getShipping() {
        return shipping;
    }

    public void setShipping(Shipping shipping) {
        this.shipping = shipping;
    }

    @Override
    public int hashCode() {
        final int prime = 31;
        int result = 1;
        result = prime * result + ((orderId == null) ? 0 : orderId.hashCode());
        return result;
    }

    @Override
    public boolean equals(Object obj) {
        if (this == obj)
            return true;
        if (obj == null)
            return false;
        if (getClass() != obj.getClass())
            return false;
        Order other = (Order) obj;
        if (orderId == null) {
            if (other.orderId != null)
                return false;
        } else if (!orderId.equals(other.orderId))
            return false;
        return true;
    }

}

```

▼ Repository

```
package com.carshop.domain;

public interface OrderRepository {
    Long saveOrder(Order order);
}
```

```
package com.carshop.domain;

import java.util.HashMap;
import java.util.Map;

import org.springframework.stereotype.Repository;

@Repository
public class OrderRepositoryImpl implements OrderRepository {

    private Map<Long, Order> listOfOrders;
    private long nextOrderId;

    public OrderRepositoryImpl() {
        listOfOrders = new HashMap<Long, Order>();
        nextOrderId = 2000;
    }

    @Override
    public Long saveOrder(Order order) {
        order.setOrderId(getNextOrderId());
        listOfOrders.put(order.getOrderId(), order);

        return order.getOrderId();
    }

    private synchronized long getNextOrderId() {
        return nextOrderId++;
    }
}
```

▼ Service

```
package com.carshop.domain;

public interface OrderService {

    void confirmOrder(String cid, long quantity);
    Long saveOrder(Order order);
}
```

```
package com.carshop.domain;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;

import com.carshop.controller.CartService;

@Service
public class OrderServiceImpl implements OrderService {

    @Autowired
    private OrderRepository orderRepository;

    @Autowired
    private CartService cartService;

    @Override
    public void confirmOrder(String cid, long quantity) {
        // 추후에는 판매가 이루어지면 재고량에서 1개를 빼주는 계산 처리
    }

    @Override
    public Long saveOrder(Order order) {
        Long orderId = orderRepository.saveOrder(order);
        cartService.delete(order.getCart().getCartId());
        return orderId;
        //주문이 처리가 되어 기존 장바구니는 비워준다
    }
}
```

```
}
}
```

▼ Controller

```
package com.carshop.domain;

import org.springframework.stereotype.Controller;

@Controller
public class OrderController {

    //Order 컨트롤러는 실제 작동하지는 않는다. webflow가 주문처리를 담당한다.

}
```

webflow 환경 설정

▼ pom.xml

```
<!-- https://mvnrepository.com/artifact/org.springframework.webflow/spring-webflow -->
<dependency>
    <groupId>org.springframework.webflow</groupId>
    <artifactId>spring-webflow</artifactId>
    <version>2.5.1.RELEASE</version>
</dependency>
```

▼ servlet-context.xml

```
xmlns:webflow="http://www.springframework.org/schema/webflow-config"

http://www.springframework.org/schema/webflow-config http://www.springframework.org/schema/webflow-config/spring-webflow-conf:
```

```
<?xml version="1.0" encoding="UTF-8"?>
<beans:beans xmlns="http://www.springframework.org/schema/mvc"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:beans="http://www.springframework.org/schema/beans"
    xmlns:context="http://www.springframework.org/schema/context"
    xmlns:webflow="http://www.springframework.org/schema/webflow-config"
    xsi:schemaLocation="http://www.springframework.org/schema/mvc https://www.springframework.org/schema/
        http://www.springframework.org/schema/beans https://www.springframework.org/schema/beans/spring-b
        http://www.springframework.org/schema/webflow-config http://www.springframework.org/schema/webflo
        http://www.springframework.org/schema/context https://www.springframework.org/schema/context/spri
```

```
<webflow:flow-registry id="flowRegistry">
    <webflow:flow-location path="/WEB-INF/flows/order/order-flow.xml" id="order"/>
    <webflow:flow-location path="/WEB-INF/flows/fctest/fctest-flow.xml" id="fctest"/>
</webflow:flow-registry>

<webflow:flow-executor id="flowExecutor" flow-registry="flowRegistry" />

<beans:bean id="flowHandlerMapping"
    class="org.springframework.webflow.mvc.servlet.FlowHandlerMapping">
    <beans:property name="flowRegistry" ref="flowRegistry" />
</beans:bean>

<beans:bean id="flowHandlerAdapter" class="org.springframework.webflow.mvc.servlet.FlowHandlerAdapter">
    <beans:property name="flowExecutor" ref="flowExecutor" />
</beans:bean>
```

나머지 설정은 항상 그대로 넣어주고 아래 부분만 변경한다.
필요한 플로우를 여러개 설정하여 사용할 수 있다. 위치와 아이디로 접근한다.

```
<webflow:flow-registry id="flowRegistry">
<webflow:flow-location path="/WEB-INF/flows/order/order-flow.xml" id="order"/>
```

```
<webflow:flow-location path="/WEB-INF/flows/fctest/fctest-flow.xml" id="fctest"/>
</webflow:flow-registry>
```

▼ fctest-flow.xml

웹 플로우를 WEB-INF 바로 아래에 flows 아래에 fctest 연습용 order 실제적용 폴더를 생성하자

```
<?xml version="1.0" encoding="UTF-8"?>
<flow xmlns="http://www.springframework.org/schema/webflow"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.springframework.org/schema/webflow
    http://www.springframework.org/schema/webflow/spring-webflow.xsd">

  <var name="fctest" class="com.carshop.domain.Fctest" />

</flow>
```

프로젝트에 웹플로우 적용

▼ order-flow.xml

```
<?xml version="1.0" encoding="UTF-8"?>

<flow xmlns="http://www.springframework.org/schema/webflow"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.springframework.org/schema/webflow
    http://www.springframework.org/schema/webflow/spring-webflow.xsd">

  <var name="order" class="com.carshop.domain.Order" />

  <view-state id="addCartToOrder">
    <transition to="orderCustomerInfo" />
  </view-state>

  <view-state id="orderCustomerInfo" model="order">
    <transition on="customerInfo" to="orderShippingInfo"/>
  </view-state>

  <view-state id="orderShippingInfo" model="order">
    <transition on="ShippingInfo" to="orderConfirmation"/>
    <transition on="backToCustomerInfo" to="orderCustomerInfo"/>
  </view-state>

  <view-state id="orderConfirmation">
    <transition on="orderConfirm" to="confirmOrder"/>
    <transition on="backToShippingInfo" to="orderShippingInfo"/>
  </view-state>

  <action-state id="confirmOrder">
    <evaluate expression="orderServiceImpl.saveOrder(order)" result="order.orderId"/>
    <transition to="orderFinished"/>
  </action-state>

  <view-state id="orderFinished" model="order">
    <transition to="endState"/>
  </view-state>

  <end-state id="endState"></end-state>

  <global-transitions>
    <transition on="cancel" to="endState"/>
  </global-transitions>

</flow>
```

▼ orderCustomerInfo.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
  pageEncoding="UTF-8"%>
```



```

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

<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>

    <link
        href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css"
        rel="stylesheet"
        integrity="sha384-GLhLTQ8iRABdZL603oVMWsktQOp6b7In1Zl3/Jr59b6EGGoI1aFkw7cmDA6j6gD"
        crossorigin="anonymous">

    <nav class="navbar navbar-expand navbar-dark bg-dark fixed-top"
        aria-label="Second navbar example">
        <div class="container-fluid">
            <a class="navbar-brand" href="#">CarShop</a>
            <button class="navbar-toggler" type="button"
                data-bs-toggle="collapse" data-bs-target="#navbarsExample02"
                aria-controls="navbarsExample02" aria-expanded="false"
                aria-label="Toggle navigation">
                <span class="navbar-toggler-icon"></span>
            </button>

            <div class="collapse navbar-collapse" id="navbarsExample02">
                <ul class="navbar-nav me-auto">
                    <li class="nav-item"><a class="nav-link active"
                        aria-current="page" href="#">홈</a></li>
                    <li class="nav-item"><a class="nav-link" href="/cars">차량
                        보기</a></li>
                    <li class="nav-item"><a class="nav-link" href="/boards">게시판</a>
                    </li>
                    <li class="nav-item dropdown"><a
                        class="nav-link dropdown-toggle" href="#" role="button"
                        data-bs-toggle="dropdown" aria-expanded="false"> 회원관리 </a>
                    <ul class="dropdown-menu">
                        <li><a class="dropdown-item" href="/login">로그인</a></li>
                        <li><a class="dropdown-item" href="/logout">로그아웃</a></li>
                    </ul></li>
                </ul>
                <c:choose>
                    <c:when test="${isLogOn == true}">
                        <form method="post" action="/logout">
                            <input type="submit" class="btn btn-success" value="Logout" /> <input
                                type="hidden" name="${_csrf.parameterName}"
                                value="${_csrf.token}" />
                        </form>
                    </c:when>
                    <c:otherwise>
                        <form method="post" action="/login">
                            <input type="submit" class="btn btn-primary" value="Login" /> <input
                                type="hidden" name="${_csrf.parameterName}"
                                value="${_csrf.token}" />
                        </form>
                    </c:otherwise>
                </c:choose>
            </div>
        </div>
    </nav>
    <div class="my-30">
        <div class="alert alert-dark">
            <div class="container">
                <h1>고객 정보</h1>
            </div>
        </div>
    </div>
</div>

    <div class="container">
        <form:form modelAttribute="order.customer" class="form-horizontal">
            <fieldset>
                <legend>고객 세부 사항</legend>
                <div class="form-group row">
                    <label class="col-sm-2 control-label">고객 ID</label>
                    <div class="col-sm-3">
                        <form:input path="customerId" class="form-control" />
                    </div>
                </div>
                <div class="form-group row">

```

```

        <label class="col-sm-2 control-label">성명</label>
        <div class="col-sm-3">
            <form:input path="name" class="form-control" />
        </div>
    </div>
    <div class="form-group row">
        <label class="col-sm-2 control-label">전화번호</label>
        <div class="col-sm-3">
            <form:input path="phone" class="form-control" />
        </div>
    </div>
    <div class="form-group row">
        <label class="col-sm-2 control-label">국가명</label>
        <div class="col-sm-3">
            <form:input path="address.country" class="form-control" />
        </div>
    </div>
    <div class="form-group row">
        <label class="col-sm-2 control-label">우편번호</label>
        <div class="col-sm-3">
            <form:input path="address.zipCode" class="form-control" />
        </div>
    </div>
    <div class="form-group row">
        <label class="col-sm-2 control-label">주소</label>
        <div class="col-sm-5">
            <form:input path="address.addressName" class="form-control" />
        </div>
    </div>
    <div class="form-group row">
        <label class="col-sm-2 control-label">세부주소</label>
        <div class="col-sm-3">
            <form:input path="address.detailName" class="form-control" />
        </div>
    </div>
    <input type="hidden" name="_flowExecutionKey"
        value="{flowExecutionKey}" />

    <div class="form-group row">
        <div class="col-sm-offset-2 col-sm-10">
            <input type="submit" class="btn btn-primary" value="등록"
                name="_eventId_customerInfo" />
            <button class="btn btn-default" name="_eventId_cancel">취소</button>
        </div>
    </div>

</fieldset>

</form:form>
</div>

```

```

<nav class="navbar fixed-bottom navbar-expand-sm navbar-dark bg-dark">
    <div class="container-fluid">
        <a class="navbar-brand" href="#">Car Shop</a>
        <button class="navbar-toggler" type="button"
            data-bs-toggle="collapse" data-bs-target="#navbarCollapse"
            aria-controls="navbarCollapse" aria-expanded="false"
            aria-label="Toggle navigation">
            <span class="navbar-toggler-icon"></span>
        </button>
        <div class="collapse navbar-collapse" id="navbarCollapse">
            <ul class="navbar-nav">
                <li class="nav-item"><a class="nav-link active"
                    aria-current="page" href="/cars">자동차 보기</a></li>
            </ul>
        </div>
    </div>
</nav>

```

```

<script
    src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.min.js"
    integrity="sha384-w76AqPFDKMBDXo39jS1Sgez6pr3x5MlQ1ZAGC+nuZB+EYdgRZgiwXhTBTkF7CXvN"
    crossorigin="anonymous"></script>

```

```

<script
  src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.min.js"
  integrity="sha384-w76AqPfdKMBDXo39jS1SgeZ6pr3x5MLQ1ZAGC+nuZB+EYdgRZgiwXhTBTkF7CXvN"
  crossorigin="anonymous"></script>
</body>
</html>

```

▼ orderShippingInfo.jsp

```

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>

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

<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>배송 세부 사항</title>
</head>
<body>
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%>

<link
  href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css"
  rel="stylesheet"
  integrity="sha384-GLhLTQ8iRABdZL603oVMwSktQOp6b7In1ZL3/Jr59b6EGGoI1aFkw7cmDA6j6gD"
  crossorigin="anonymous">

<nav class="navbar navbar-expand navbar-dark bg-dark fixed-top"
  aria-label="Second navbar example">
  <div class="container-fluid">
    <a class="navbar-brand" href="#">CarShop</a>
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse"
      data-bs-target="#navbarsExample02" aria-controls="navbarsExample02"
      aria-expanded="false" aria-label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
    </button>

    <div class="collapse navbar-collapse" id="navbarsExample02">
      <ul class="navbar-nav me-auto">
        <li class="nav-item"><a class="nav-link active"
          aria-current="page" href="#">홈</a></li>
        <li class="nav-item"><a class="nav-link" href="/cars">차량 보기</a></li>
        <li class="nav-item"><a class="nav-link" href="/boards">게시판</a>
        </li>
        <li class="nav-item dropdown"><a
          class="nav-link dropdown-toggle" href="#" role="button"
          data-bs-toggle="dropdown" aria-expanded="false"> 회원관리
        </a>
        <ul class="dropdown-menu">
          <li><a class="dropdown-item" href="/login">로그인</a></li>
          <li><a class="dropdown-item" href="/logout">로그아웃</a></li>
        </ul></li>
      </ul>
      <c:choose>
        <c:when test="{isLogOn == true}">
        <form method="post" action="/logout">
          <input type="submit" class="btn btn-success" value="Logout" />
          <input type="hidden" name="{_csrf.parameterName}" value="{_csrf.token}" />
        </form>
        </c:when>
        <c:otherwise>
        <form method="post" action="/login">
          <input type="submit" class="btn btn-primary" value="Login" />
          <input type="hidden" name="{_csrf.parameterName}" value="{_csrf.token}" />
        </form>
        </c:otherwise>
      </c:choose>
    </div>
  </div>
</nav>
<div class="my-5">
  <div class="alert alert-dark">
    <div class="container">
      <h1>배송 세부 사항</h1>
    </div>
  </div>
</div>
</div>

```

```

<div class="container">

  <form:form modelAttribute="order.shipping" class="form-horizontal">
    <fieldset>
      <legend>배송 세부 사항</legend>
      <div class="form-group row">
        <label class="col-sm-2 control-label">성명</label>
        <div class="col-sm-3">
          <form:input path="name" class="form-control" />
        </div>
      </div>
      <div class="form-group row">
        <label class="col-sm-2 control-label">배송일</label>
        <div class="col-sm-3">
          <form:input path="date" class="form-control" /> (yyyy/mm/dd)
        </div>
        <div class="col-sm-6">
          <form:errors path="date" cssClass="text-danger"/>
        </div>
      </div>
      <div class="form-group row">
        <label class="col-sm-2 control-label">국가명</label>
        <div class="col-sm-3">
          <form:input path="address.country" class="form-control" />
        </div>
      </div>
      <div class="form-group row">
        <label class="col-sm-2 control-label">우편번호</label>
        <div class="col-sm-3">
          <form:input path="address.zipCode" class="form-control" />
        </div>
      </div>
      <div class="form-group row">
        <label class="col-sm-2 control-label">주소</label>
        <div class="col-sm-5">
          <form:input path="address.addressName" class="form-control" />
        </div>
      </div>
      <div class="form-group row">
        <label class="col-sm-2 control-label">세부주소</label>
        <div class="col-sm-3">
          <form:input path="address.detailName" class="form-control" />
        </div>
      </div>
      <input type="hidden" name="_flowExecutionKey" value="{flowExecutionKey}"/>
      <div class="form-group row">
        <div class="col-sm-offset-2 col-sm-10">
          <button class="btn btn-default" name="_eventId_backToCustomerInfo">이전</button>
          <input type="submit" class="btn btn-primary" value="등록" name="_eventId_shippingInfo"/>
          <button class="btn btn-default" name="_eventId_cancel">취소</button>
        </div>
      </div>
    </fieldset>
  </form:form>
</div>

<nav class="navbar fixed-bottom navbar-expand-sm navbar-dark bg-dark">
  <div class="container-fluid">
    <a class="navbar-brand" href="#">Car Shop</a>
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarCollapse" aria-controls="na
    <span class="navbar-toggler-icon"></span>
  </button>
  <div class="collapse navbar-collapse" id="navbarCollapse">
    <ul class="navbar-nav">
      <li class="nav-item">
        <a class="nav-link active" aria-current="page" href="/cars">자동차 보기</a>
      </li>
    </ul>
  </div>
</div>
</nav>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.min.js" integrity="sha384-w76AqPFDKl
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.min.js" integrity="sha384-w76AqPFDKl

```

```

</body>
</html>

```

▼ orderConfirmation.jsp

```

<div class="container" >

    <form:form modelAttribute="order" class="form-horizontal">
    <div class="well col-md-9 col-md-offset-2" style="background:#fafafe; padding: 20px">
        <div class="text-center">
            <h1>영수증</h1>
        </div>
        <div class="row">
            <div class="col-md-6">
                <address>
                    <strong>배송 주소</strong> <br>
                    성명 : ${order.shipping.name}<br>
                    우편번호 : ${order.shipping.address.zipCode}<br>
                    주소 : ${order.shipping.address.addressName} ${order.shipping.address.detailName} (${order.shipping.address.coun
                    </address>
                </div>
                <div class="col-md-6 text-right">
                    <p> <em>배송일: <fmt:formatDate type="date" value="${order.shipping.date}" /></em></p>
                </div>
            </div>
            <div class="row">
                <div class="col-md-9">
                    <address>
                        <strong>청구주소</strong> <br>
                        성명 : ${order.customer.name}<br>
                        우편번호 : ${order.customer.address.zipCode}<br>
                        주소 : ${order.customer.address.addressName} ${order.customer.address.detailName} (${order.customer.address.coun
                        HP : ${order.customer.phone}<br>
                    </address>
                </div>
            </div>
            <div class="row">
                <table class="table table-hover">
                    <thead>
                        <tr><th>도서</th>
                        <th>#</th>
                        <th class="text-center">가격</th>
                        <th class="text-center">소개</th>
                    </tr>
                    </thead>
                    <tbody>
                        <c:forEach var="cartItem" items="${order.cart.cartItems}">
                            <tr>
                                <td> <em>${cartItem.value.car.cname}</em></td>
                                <td style="text-align: center">${cartItem.value.quantity}</td>
                                <td class="text-center">${cartItem.value.car.cprice}원</td>
                                <td class="text-center">${cartItem.value.totalPrice}원</td>
                            </tr>
                        </c:forEach>
                        <tr>
                            <td> </td>
                            <td> </td>
                            <td class="text-right"><h5> <strong>총액: </strong></h5></td>
                            <td class="text-center text-danger"><h4><strong>${order.cart.grandTotal}</strong></h4></td>
                        </tr>
                    </tbody>
                </table>
                <input type="hidden" name="_flowExecutionKey" value="${flowExecutionKey}" />
                <button class="btn btn-default" name="_eventId_backToShippingInfo">이전</button>
                <button type="submit" class="btn btn-success" name="_eventId_orderConfirmed">주문완료 </button>
                <button class="btn btn-default" name="_eventId_cancel">취소</button>
            </div>
        </form:form>
    </div>

```

▼ orderFinished.jsp

```

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>

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

<!DOCTYPE html>
<html>

```

```

<head>
<meta charset="UTF-8">
<title>주문 완료</title>
</head>
<body>
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%>

<link
    href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css"
    rel="stylesheet"
    integrity="sha384-GlhlTQ8iRABdZL1603oVMWsktQ0p6b7In1ZL3/Jr59b6EGGoI1aFkw7cmDA6j6gD"
    crossorigin="anonymous">

<nav class="navbar navbar-expand navbar-dark bg-dark fixed-top"
    aria-label="Second navbar example">
<div class="container-fluid">
    <a class="navbar-brand" href="#">CarShop</a>
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse"
        data-bs-target="#navbarsExample02" aria-controls="navbarsExample02"
        aria-expanded="false" aria-label="Toggle navigation">
        <span class="navbar-toggler-icon"></span>
    </button>

    <div class="collapse navbar-collapse" id="navbarsExample02">
        <ul class="navbar-nav me-auto">
            <li class="nav-item"><a class="nav-link active"
                aria-current="page" href="#">홈</a></li>
            <li class="nav-item"><a class="nav-link" href="/cars">차량 보기</a></li>
            <li class="nav-item"><a class="nav-link" href="/boards">게시판</a>
            </li>
            <li class="nav-item dropdown"><a
                class="nav-link dropdown-toggle" href="#" role="button"
                data-bs-toggle="dropdown" aria-expanded="false"> 회원관리
            </a>
            <ul class="dropdown-menu">
                <li><a class="dropdown-item" href="/login">로그인</a></li>
                <li><a class="dropdown-item" href="/logout">로그아웃</a></li>
            </ul></li>
        </ul>
        <c:choose>
            <c:when test="{isLogOn == true}">
            <form method="post" action="/logout">
                <input type="submit" class="btn btn-success" value="Logout" />
                <input type="hidden" name="{_csrf.parameterName}" value="{_csrf.token}" />
            </form>
            </c:when>
            <c:otherwise>
                <form method="post" action="/login">
                <input type="submit" class="btn btn-primary" value="Login" />
                <input type="hidden" name="{_csrf.parameterName}" value="{_csrf.token}" />
            </form>
            </c:otherwise>
        </c:choose>
    </div>
</div>
</nav>
<div class="my-5">
    <div class="alert alert-dark">
        <div class="container">
            <h1>주문 완료</h1>
        </div>
    </div>
</div>

<div class="container">
<h2 class="alert alert-danger">주문해 주셔서 감사합니다.</h2>
<p>주문 번호 : ${order.orderId}</p>
</div>

<div class="container">
<p><a href="/cars" class="btn btn-primary">제품목록</a></p>
</div>

<nav class="navbar fixed-bottom navbar-expand-sm navbar-dark bg-dark">
<div class="container-fluid">
    <a class="navbar-brand" href="#">Car Shop</a>
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarCollapse" aria-controls="na
    <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarCollapse">
        <ul class="navbar-nav">
            <li class="nav-item">

```

```
        <a class="nav-link active" aria-current="page" href="/cars">자동차 보기</a>
      </li>
    </ul>
  </div>
</div>
</nav>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.min.js" integrity="sha384-w76AqPFDKk"
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.bundle.min.js" integrity="sha384-w76AqPFDKk
</body>
</html>
```