

Spring Day 6 230307

war를 zip으로 변환한 파일이 아닌 전체를 그대로 zip으로 압축한 파일

<https://s3-us-west-2.amazonaws.com/secure.notion-static.com/b356993e-d793-468d-8314-159b23632207/CarShop6.zip>

따라서 import 로 읽지 말고 open project from file system 으로 읽을 것

1. 실제 서버에서의 위치 찾기 cars.jsp 에서 임시 확인

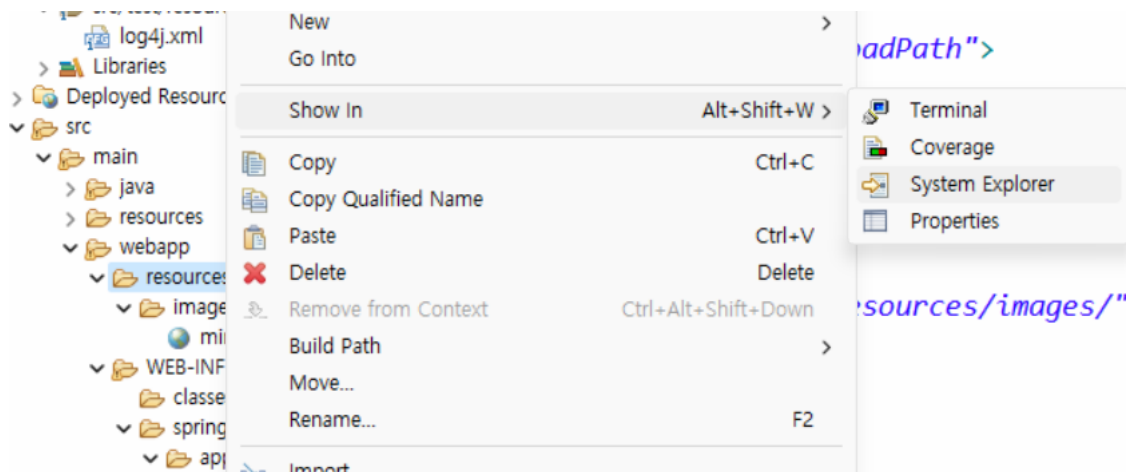
```
<%=request.getSession().getServletContext().getRealPath("/") %>
```

C:\develop\spring\metadata\plugins\org.eclipse.wst.server.core\tmp0\wtpwebapps\CarShop\

2. servlet-context.xml에 파일 저장에 필요한 코드를 추가

```
<!-- 업로드 패스 설정 -->
<beans:bean class="java.lang.String" id="uploadPath">
  <beans:constructor-arg
    value="C:\develop\spring\metadata\plugins\org.eclipse.wst.server.core\tmp0\wtpwebapps\CarShop\resource" />
  <!--value="C:\Develop\spring\metadata\plugins\org.eclipse.wst.server.core\tmp0\wtpwebapps\BookMarket\resources" />-->
</beans:bean>

<!-- 일반 파일 업로드 경로 -->
<resources mapping="/images/**" location="/resources/images/" />
```



webapp - resources - 우클릭 - show In - System Explorer

C:\develop\spring\CarShop\src\main\webapp		webapp 검색	
이름	수정한 날짜	유형	크기
resources	2023-03-06 오후 2:38	파일 폴더	
WEB-INF	2023-03-07 오전 9:34	파일 폴더	

로컬에서의 작업 위치 - C:\develop\spring\CarShop\src\main\webapp

실제 운영 서버에서의 위치 (카페24 등의 서버에서는 주소형태가 운영체제에 따라 달라진다)-

C:\develop\spring\metadata\plugins\org.eclipse.wst.server.core\tmp0\wtpwebapps\CarShop\

```
<!-- 업로드 패스 설정 -->
<beans:bean class="java.lang.String" id="uploadPath">
  <beans:constructor-arg
    value="C:\develop\spring\CarShop\src\main\webapp\resources" />
</beans:bean>
<!--value="C:\develop\spring\metadata\plugins\org.eclipse.wst.server.core\tmp0\wtpwebapps\CarShop\resource" />-->
<!-- 일반 파일 업로드 경로 -->
<resources mapping="/images/**" location="/resources/images/" /></resources>
```

3. 사용

```
@Resource(name="uploadPath")
private String uploadPath;

@PostMapping("/admin/add")
public String submitAddNewCar(@ModelAttribute("NewCar")

    MultipartFile carimage = car.getCarimage();

    String saveName = carimage.getOriginalFilename();
```

```
String saveName = carimage.getOriginalFilename();
File saveFile = new File(uploadPath + "\\images", saveName);
```

```
value="/resources/images/${car.getCarimage().
value="/resources/images/mine.jpg"/>" style="
```

```
" style=
```

예외 처리

!! 중요.....내장 브라우저에서는 예외 처리가 확인이 잘 된다. 크롬에서 테스트 하자. !!

2가지...(4가지)

1. (404 처리는 안된다.) 대부분의 예외처리 방법..

ErrorHandler.java

```
package com.carshop.controller;  
  
import org.springframework.web.bind.annotation.ControllerAdvice;  
  
@ControllerAdvice  
public class ErrorHandler {  
  
}
```

```
package com.carshop.controller;  
  
import org.springframework.web.bind.annotation.ControllerAdvice;  
import org.springframework.web.bind.annotation.ExceptionHandler;  
import org.springframework.web.servlet.ModelAndView;  
  
@ControllerAdvice  
public class ErrorHandler {  
  
    @ExceptionHandler(RuntimeException.class)  
    private ModelAndView handleErrorCommon(Exception e) {  
        ModelAndView modelAndView = new ModelAndView();  
        modelAndView.addObject("exception", e);  
        modelAndView.setViewName("errorCommon");  
  
        return modelAndView;  
    }  
}
```

```

package com.carshop.controller;

import org.springframework.web.bind.annotation.ControllerAdvice;
import org.springframework.web.bind.annotation.ExceptionHandler;
import org.springframework.web.servlet.ModelAndView;

@ControllerAdvice
public class ErrorController {

    @ExceptionHandler(RuntimeException.class)
    private ModelAndView handleErrorCommon(Exception e) {
        ModelAndView modelAndView = new ModelAndView();
        modelAndView.addObject("exception", e);
        modelAndView.setViewName("errorCommon");

        return modelAndView;
    }
}

```

```

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
${exception}
<br>
errorCommon.jsp
</body>
</html>

```

2. 404 처리

web.xml

```

<error-page>

    <error-code>404</error-code>

    <location>/WEB-INF/views/error.jsp</location>

</error-page>

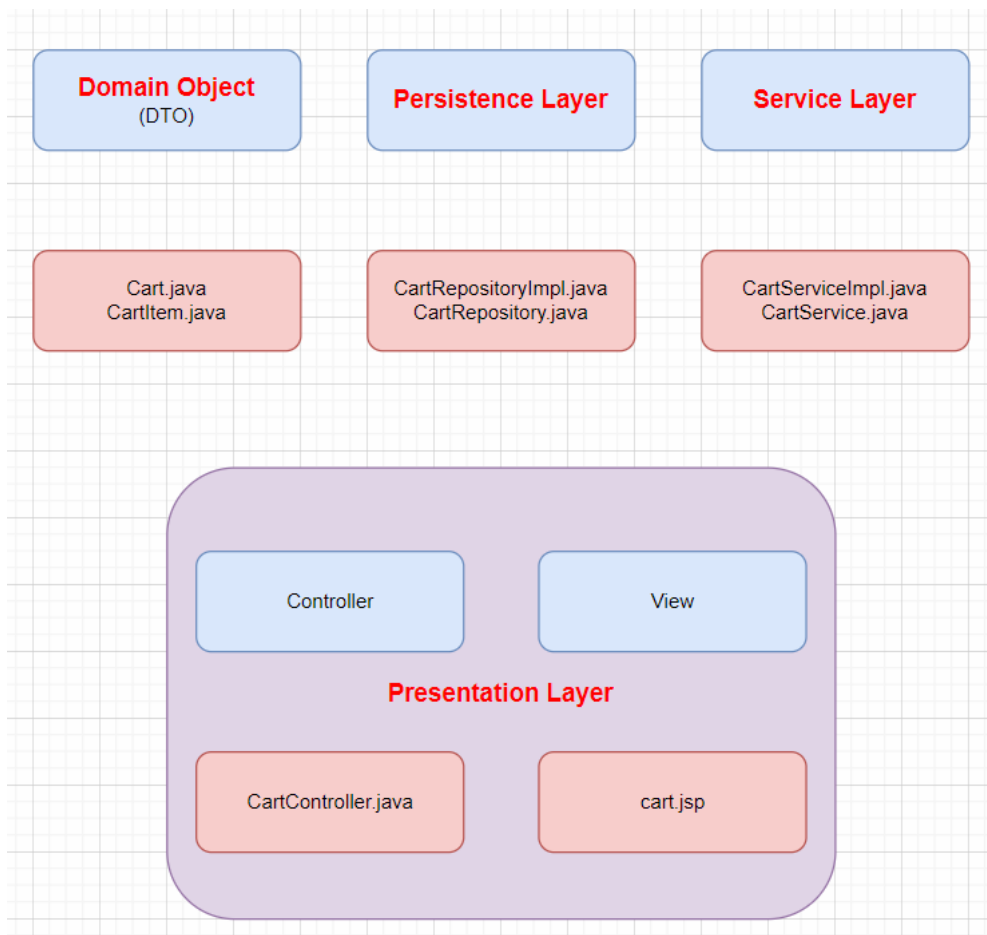
```

예러

[Tomcat 에러]Several ports (8005, 8080, 8009) required by Tomcat v9.0 Server at localhost are already in use. The server may already be running in
 톰캣을 구동시켰을 때 생긴 포트 오류이다.나는 이클립스가 비정상적으로 종료가 된 후에 톰캣을 구동시켰을 때 발생했다. Several ports (8005, 8080, 8009) required by Tomcat v
 process may be using the port. To start this server you will need to stop the other process or change the port number(s). Tomcat이 사용하고 있는 기본 포트(8080, 8009, 8

🌐 <https://to-dy.tistory.com/59>

장바구니 처리



CartItem.java

```
package com.carshop.controller;

public class CartItem {

    private CarDTO car;    //자동차
    private int quantity;  //자동차 개수
    private int totalPrice; //자동차 가격

    public CarDTO getCar() {
        return car;
    }
    public void setCar(CarDTO car) {
        this.car = car;
    }
    public int getQuantity() {
        return quantity;
    }
    public void setQuantity(int quantity) {
        this.quantity = quantity;
    }
}
```

```

    }
    public int getTotalPrice() {
        return totalPrice;
    }
    public void setTotalPrice(int totalPrice) {
        this.totalPrice = totalPrice;
    }
    public CartItem() {
        super();
        // TODO Auto-generated constructor stub
    }
    public CartItem(CardDTO car) {
        super();
        this.car = car;
        this.quantity = 1;
        this.totalPrice = Integer.parseInt(car.getCprice());
    }

    @Override
    public int hashCode() {
        final int prime = 31;
        int result = 1;
        result = prime * result + ((car == null) ? 0 : car.hashCode());
        result = prime * result + quantity;
        result = prime * result + totalPrice;
        return result;
    }
    @Override
    public boolean equals(Object obj) {
        if (this == obj)
            return true;
        if (obj == null)
            return false;
        if (getClass() != obj.getClass())
            return false;
        CartItem other = (CartItem) obj;
        if (car == null) {
            if (other.car != null)
                return false;
        } else if (!car.equals(other.car))
            return false;
        if (quantity != other.quantity)
            return false;
        if (totalPrice != other.totalPrice)
            return false;
        return true;
    }

    public void updateTotalPrice() {
        int price = Integer.parseInt(car.getCprice());
        totalPrice = price * this.quantity;
    }

}

```

Cart.java

```

package com.carshop.controller;

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

public class Cart {

    private String cartId;
    private Map<String, CartItem> cartItems;
    private int grandTotal;

    public Cart() {
        cartItems = new HashMap<String, CartItem>();
    }
}

```

```

public Cart(String cartId) {
    this();
    this.cartId = cartId;
}

public String getCartId() {
    return cartId;
}

public void setCartId(String cartId) {
    this.cartId = cartId;
}

public Map<String, CartItem> getCartItems() {
    return cartItems;
}

public void setCartItems(Map<String, CartItem> cartItems) {
    this.cartItems = cartItems;
}

public int getGrandTotal() {
    return grandTotal;
}

public void setGrandTotal(int grandTotal) {
    this.grandTotal = grandTotal;
}

@Override
public int hashCode() {
    final int prime = 31;
    int result = 1;
    result = prime * result + ((cartId == null) ? 0 : cartId.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;
    Cart other = (Cart) obj;
    if (cartId == null) {
        if (other.cartId != null)
            return false;
    } else if (!cartId.equals(other.cartId))
        return false;
    return true;
}

public void updateGrandTotal() {
    grandTotal = 0;
    for(CartItem item : cartItems.values()) {
        grandTotal = grandTotal + item.getTotalPrice();
    }
}
}

```

CartRepository.java

```
package com.carshop.controller;

public interface CartRepository {

    Cart create(Cart cart);
    Cart read(String cartId);
}
```

CartRepositoryImpl.java

```
package com.carshop.controller;

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

import org.springframework.stereotype.Repository;

@Repository
public class CartRepositoryImpl implements CartRepository {

    private Map<String, Cart> listOfCarts;

    public CartRepositoryImpl() {
        listOfCarts = new HashMap<String, Cart>();
    }

    @Override
    public Cart create(Cart cart) {
        if (listOfCarts.keySet().contains(cart.getCartId())) {
            throw new IllegalArgumentException(
                String.format("장바구니를 생성할수 없습니다. 장바구니 id가 이미 존재합니다.",
                    cart.getCartId()));
        }

        listOfCarts.put(cart.getCartId(), cart);

        return cart;
    }

    @Override
    public Cart read(String cartId) {
        return listOfCarts.get(cartId);
    } // cartId 를 이용하여 장바구니에 등록된 모든 정보를 가져온다.
}
```

CartServiceImpl.java

```
package com.carshop.controller;

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

@Service
public class CartServiceImpl implements CartService{

    @Autowired
    private CartRepository cartRepository;

    public Cart create(Cart cart) {
        return cartRepository.create(cart);
    }

    public Cart read(String cartId) {
        return cartRepository.read(cartId);
    }
}
```



```
}
```

CartService.java

```
package com.carshop.controller;  
  
public interface CartService {  
    Cart create(Cart cart);  
    Cart read(String cartId);  
}
```