

230306 Spring 파일 업로드

File Upload

1. pom.xml 에 Maven Repository에서 검색 후 의존성 추가
 - a. commons-fileupload
 - b. commons-io

```
132
133         <!-- https://mvnrepository.com/artifact/commons
134     <dependency>
135         <groupId>commons-fileupload</groupId>
136         <artifactId>commons-fileupload</artifactId>
137         <version>1.5</version>
138     </dependency>
139
140     <!-- https://mvnrepository.com/artifact/commons-io,
141     <dependency>
142         <groupId>commons-io</groupId>
143         <artifactId>commons-io</artifactId>
144         <version>2.11.0</version>
145     </dependency>
146
```

2. servlet-context.xml

```
25
26     <beans:bean id="multipartResolver"
27         class="org.springframework.web.multipart.commons.CommonsMultipartResolver">
28         <beans:property name="maxUploadSize" value="10240000"/>
29     </beans:bean>
30
31
```

CarController

```

package com.carshop.controller;

import java.io.File;
import java.io.IOException;
import java.util.List;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.ModelAttribute;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestParam;
import org.springframework.web.multipart.MultipartFile;

@Controller
public class CarController {

    @Autowired
    private CarService carService;

    @RequestMapping("/cars")
    public String CarList(Model model) {
        List<CardTO> list = carService.getAllCarList();
        model.addAttribute("carList", list);
        return "cars";
    }

    @GetMapping("/{ccate}")
    public String requestCarsByCategory(@PathVariable("ccate")String carCategory, Model
model) {

        List<CardTO> carsByCategory = carService.getCarListByCategory(carCategory);
        model.addAttribute("carList", carsByCategory);
        return "cars";
    }

    @GetMapping("/car")
    public String requestCarById(@RequestParam("id") String carId, Model model) {

        CardTO carById = carService.getCarById(carId);
        model.addAttribute("car", carById);
        return "car";
    }

    @GetMapping("/admin/add")
    public String requestAddCarForm(@ModelAttribute("car") CardTO car) {

        return "addCar";
    }

    @PostMapping("/admin/add")
    public String submitAddNewCar(@ModelAttribute("car") CardTO car) {

```

```

        MultipartFile carimage = car.getCarimage();

        String saveName = carimage.getOriginalFilename();
        File saveFile = new File("C:\\upload", saveName);

        if(carimage != null && !carimage.isEmpty()) {
            try {
                carimage.transferTo(saveFile);
            } catch (Exception e) {
                throw new RuntimeException("차량 이미지 업로드 실패");
            }
        }

        carService.setNewCar(car);
        return "redirect:/cars";
    }

    @ModelAttribute
    public void addAttributes(Model model) {

        model.addAttribute("addTitle", "신규 차량 등록");
    }

    @GetMapping("/login")
    public String loginMethod() {

        return "login";
    }

    @GetMapping("/loginfailed")
    public String loginfailedMethod() {

        return "login";
    }

    @GetMapping("/logout")
    public String logoutMethod() {

        return "login";
    }
}

```

addCar

```

<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form" %>
<!DOCTYPE html>
<html>

```

```

<head>
<meta charset="UTF-8">
<title>자동차 등록</title>
</head>
<body>
<%= include file="header.jsp" %>

    <div class="alert alert-dark" role="alert">
        <div class="container"><h1>차량 등록</h1></div>
    </div>

<div class="container">
    <div class="row" align="center">

        <form:form modelAttribute="car"
            action="./add?${_csrf.parameterName }=${_csrf.token }"
            method="post"
            class="form-horizontal"
            enctype="multipart/form-data">
            <fieldset>
            <legend>${addTitle }</legend>
            자동차 ID : <form:input path="cid" class="form-control"/>
            자동차 이름 : <form:input path="cname" class="form-control"/>
            자동차 가격 : <form:input path="cprice" class="form-control"/>
            자동차 카테고리: <form:input path="ccate" class="form-control"/>
            자동차 소개 : <form:textarea path="cdesc" cols="50" rows="2" class="form-control"/>
            자동차 사진 : <form:input path="carimage" type="file" class="form-control"/>
            <input type="submit" class="btn btn-primary" value="등록"/>

            </fieldset>
        </form:form>

    </div>
</div>

<%= include file="footer.jsp" %>
</body>
</html>

```

cars.jsp

```

<%= page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%= taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<%= taglib uri="http://java.sun.com/jsp/jstl/functions" prefix="fn" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Car List</title>

```

```

</head>
<body>
<%@ include file="header.jsp" %>

    <div class="alert alert-dark" role="alert">
        <div class="container"><h1>차량 보기 권두현</h1></div>
    </div>

<div class="container">
    <div class="row" align="center">

        <c:forEach items="${carList}" var="car">
            <div class="col-md-4">
                
                <h3>${car.cid}</h3>
                <p>${car.cname }
                <p>${car.cprice} 만원
                <p><a href="<c:url value='/car?id=${car.cid }'/"
                class="btn btn-Secondary" role="button">상세보기</a></p>
            </div>
        </c:forEach>

    </div>
</div>

<%@ include file="footer.jsp" %>
</body>
</html>

```

CarDTO

```

package com.carshop.controller;

import org.springframework.web.multipart.MultipartFile;

public class CarDTO {

    private String cid;    //차 아이디
    private String cname;  //차 이름
    private String cprice; //차 가격
    private String ccate;  //차 카테고리
    private String cdesc;  //차 설명
    private MultipartFile carimage;

    public String getCid() {
        return cid;
    }
    public void setCid(String cid) {
        this.cid = cid;
    }
    public String getName() {

```

```

        return cname;
    }
    public void setName(String cname) {
        this.cname = cname;
    }
    public String getCprice() {
        return cprice;
    }
    public void setCprice(String cprice) {
        this.cprice = cprice;
    }
    public String getCcate() {
        return ccate;
    }
    public void setCcate(String ccate) {
        this.ccate = ccate;
    }
    public String getCdesc() {
        return cdesc;
    }
    public void setCdesc(String cdesc) {
        this.cdesc = cdesc;
    }
    public MultipartFile getCarimage() {
        return carimage;
    }
    public void setCarimage(MultipartFile carimage) {
        this.carimage = carimage;
    }
}

public CardTO(String cid, String cname, String cprice, String ccate, String cdesc, M
ultipartFile carimage) {
    this.cid = cid;
    this.cname = cname;
    this.cprice = cprice;
    this.ccate = ccate;
    this.cdesc = cdesc;
    this.carimage = carimage;
}

public CardTO(String cid, String cname, String cprice, String ccate, String cdesc) {
    this.cid = cid;
    this.cname = cname;
    this.cprice = cprice;
    this.ccate = ccate;
    this.cdesc = cdesc;
}

public CardTO() {}
}

```

Exception

Validation