

Spring Day 5 230306

File Upload

1. pom.xml 의존성 추가

commons-fileupload / commons-io

```
<!-- https://mvnrepository.com/artifact/commons-fileupload/commons-fileupload -->
<dependency>
    <groupId>commons-fileupload</groupId>
    <artifactId>commons-fileupload</artifactId>
    <version>1.5</version>
</dependency>
<!-- https://mvnrepository.com/artifact/commons-io/commons-io -->
<dependency>
    <groupId>commons-io</groupId>
    <artifactId>commons-io</artifactId>
    <version>2.11.0</version>
</dependency>
```

2. servlet-context.xml

```
<!-- Resolves views selected for rendering by @Controllers to .jsp resources in the
<beans:bean class="org.springframework.web.servlet.view.InternalResourceViewResolver"
    <beans:property name="prefix" value="/WEB-INF/views/" />
    <beans:property name="suffix" value=".jsp" />
</beans:bean>

<context:component-scan base-package="com.carshop.*" />

<beans:bean id="multipartResolver"
    class="org.springframework.web.multipart.commons.CommonsMultipartResolver">
    <beans:property name="maxUploadSize" value="10240000"/>
</beans:bean>

</beans:beans>
```

3. JSPs

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>File Upload</title>
```

```

</head>
<body>
  <form method="post" enctype="multipart/form-data">
    이름 : <input type="text" name="name"/>
    사진 : <input type="file" name="fileImage" />
    <input type="submit" value="전송"/>

  </form>
</body>
</html>

<%@ 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>
<p> 파일업로드 성공
</body>
</html>

```

4 Controller

!!주의 사진이 저장되는 위치를 윈도우만 고려하지 말고 추후 업로드할 cafe24 의 운영체제인 리눅스를 고려하여 정하자.

```

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, MultipartFile carimage) {
    this.cid = cid;
    this.cname = cname;
    this.cprice = cprice;
    this.ccate = ccate;
    this.cdesc = cdesc;
    this.carimage = carimage;
}

```

```

package com.carshop.controller;

import java.io.File;
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("NewCar") CarDTO car) {

        return "addCar";
    }

    @PostMapping("/admin/add")
    public String submitAddNewCar(@ModelAttribute("NewCar") 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 업로드가 실패했습니다.");
            }
        }

        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";
    }
}

```

```

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

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

```

```

<%@ include file="header.jsp" %>

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

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

    <h3>${car.cid}</h3>
    <p>${car.cname}</p>
    <p>${car.cprice} 만원</p>
    <p>${car.ccate}</p>
    <p>${car.cdsc}</p>

  </div>
</div>

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

```

```

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

<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Car List</title>
</head>
<body>
<%@ include file="header.jsp" %>

<div class="alert alert-dark">
  <div class="container">
    <h1>차량 보기 (홍길동)</h1>
  </div>
</div>

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

    <c:forEach items="${carList}" var="car">
      <div class = "col-md-4">
        " style="width:60%"/>
        <h3>${car.cid}</h3>
        <p>${car.cname}</p>
        <p>${car.cprice} 만원</p>
        <p><a href="<c:url value="/car?id=${car.cid}" />" class="btn btn-primary" role="button">상세보기 &raquo;</a></p>
      </div>

    </c:forEach>

  </div>
</div>

```

```

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

```

addCar.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://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">
        <div class="container">
            <h1>차량 등록</h1>
        </div>
    </div>

    <form:form modelAttribute="NewCar"
        action="/add?${_csrf.parameterName}=${_csrf.token}"
        class="form-horizontal"
        method = "post"
        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>

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

```

carDTO.java

```

package com.carshop.controller;

import org.springframework.web.multipart.MultipartFile;

public class CarDTO {

```

```

private String cid, cname, cprice, ccate, cdesc;
private MultipartFile carimage;

public String getCid() {
    return cid;
}

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

public String getCname() {
    return cname;
}

public void setCname(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) {

    this.cid = cid;
    this.cname = cname;
    this.cprice = cprice;
    this.ccate = ccate;
    this.cdesc = cdesc;
    this.carimage = carimage;
}

public CarDTO() {

}

}

```

Exception

Validation