230302 SPRING ModelAttribute

@PathVariable - 1 Variable

컨트롤러

```java
package com.carshop.study;

import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.RequestMapping;

@Controller
@RequestMapping("/vari")
public class VariableController {

  @GetMapping("/names/{name}")
  public String nameMethod(@PathVariable String name, Model model) {

    model.addAttribute("data", "성명 : " + name);
    return "/study/name";
  }
}
```

study 폴더 아래 name.jsp

```jsp
<%@ 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>
${data}
</body>
</html>
```

@PathVariable - 2 Variables or More

```java
package com.carshop.study;

import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.RequestMapping;

@Controller
@RequestMapping("/vari")
public class VariableController {

  @GetMapping("/names/{name}")
  public String nameMethod(@PathVariable String name, Model model) {

    model.addAttribute("data", "성명 : " + name);
    return "/study/name";
  }

  @GetMapping("/names/{name}/{gender}")
  public String nameMethod2(@PathVariable String name,
                            @PathVariable String gender,
                                     Model model) {

    model.addAttribute("data", "성명 : " + name + "<br>" +
                "성별 : " + gender);
    return "/study/name";
  }



}
```

@MatrixVariable

주의 MatrixVariable을 사용하기 위해서는 반드시 사전에 설정을 먼저 해야만 사용할 수 있다.

servlet-context.xml 에서 설정

```xml
1 <?xml version="1.0" encoding="UTF-8"?>
2 <beans:beans xmlns="http://www.springframework.org/schema/mvc"
3       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4       xmlns:beans="http://www.springframework.org/schema/beans"
5       xmlns:context="http://www.springframework.org/schema/context"
6       xsi:schemaLocation="http://www.springframework.org/schema/mvc
7           http://www.springframework.org/schema/beans https://www.s
8           http://www.springframework.org/schema/context https://www

10      <!-- DispatcherServlet Context: defines this servlet's reques

12      <!-- Enables the Spring MVC @Controller programming model -->
13      <annotation-driven enable-matrix-variables="true" />

15      <!-- Handles HTTP GET requests for /resources/** by efficient
16      <resources mapping="/resources/**" location="/resources/" />

18      <!-- Resolves views selected for rendering by @Controllers to
19      <beans:bean class="org.springframework.web.servlet.view.Inter
20          <beans:property name="prefix" value="/WEB-INF/views/" />
21          <beans:property name="suffix" value=".jsp" />
22      </beans:bean>

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


28 </beans:beans>
29
```

```
http://localhost:8080/vari/names/cars/%EC%86%8C%EB%82%98%ED%83%80;cate=%EC%A4%91%ED%9
8%95%EC%B0%A8

@GetMapping("/names/cars/{carId}")
  public String nameMathod3(@PathVariable String carId,
              @MatrixVariable String cate,
              Model model) {
    model.addAttribute("data", "차 아이디 : " + carId + "<br>" +
          "차종 : " + cate);
    return "/study/name";
  }
```

@RequestParam

```
package com.carshop.study;

import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestParam;

@Controller
@RequestMapping("/param")
public class ParamController {

  @GetMapping("/exam1")
  public String exam1(@RequestParam String id, Model model) {

    model.addAttribute("data", "자동차 아이디 : " + id);
    return "/study/name";
  }
}

주소 : http://localhost:8080/param/exam1?id=%EC%86%8C%EB%82%98%ED%83%80
```

@ ModelAttribute

```
@GetMapping("/add")
  public String requestAddCarForm(@ModelAttribute("car") CarDTO car) {

    return "addCar";
  }

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

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

  @ModelAttribute
  public void addAttributes(Model model) {

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

💡 컨틀롤러에서 @ModelAttribute(값)과 jsp에 form modelAttribute 값이 일치해야 한다.

addCar.jsp

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

  <form:form modelAttribute="car" class="form-horizontal">
  <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"/>

  <input type="submit" class="btn btn-primary" value="등록"/>


  </fieldset>
  </form:form>


  </div>
</div>
```

!! 실습... 일치하는 정보를 찾아서 출력

1. Repository 설정

   carId로 찾아오기 위해 설정

```
package com.carshop.controller;

import java.util.List;
```

```
public interface CarRepository {

  List<CarDTO> getAllCarList(); //모든 차종류
  List<CarDTO> getCarListByCategory(String category); // 카테고리로 차 찾기
  CarDTO getCarById(String carId);
}
```