

RestController

@RestController

- 스프링 4.0이상 지원

```
@RestController
public class RestController {

    @RequestMapping("/home")
    public String home() {
        return "home";
    }
}
```

@RestController

- 스프링 3 에서는 @ResponseBody 사용

```
@Controller
public class HomeController {

    @ResponseBody
    public String hello() {
        return "hello";
    }
}
```

home

Elements Console Sources **Network** Performance Memory Application Security Audits

View: ☐ Group by frame ☐ Preserve log ☐ Disable cache ☐ Offline Online

Filter ☐ Hide data URLs **All** XHR JS CSS Img Media Font Doc WS Manifest Other

5 ms	10 ms	15 ms	20 ms	25 ms	30 ms	35 ms	40 ms	45 ms	50 ms

Name

home

× Headers Preview Response Cookies Timing

▼ General

Request URL: http://localhost:8080/home

Request Method: GET

Status Code: 200

Remote Address: [::1]:8080

Referrer Policy: no-referrer-when-downgrade

▼ Response Headers view source

Content-Length: 4

Content-Type: text/html

Date: Sun, 03 Dec 2017 02:51:24 GMT

▼ Request Headers view source

1 requests | 102 B transferred | Fi...

클릭하면 이전 페이지

Jackson Library

Pom.xml

```
<!-- Jackson -->  
<dependency>  
    <groupId>com.fasterxml.jackson.core</groupId>  
    <artifactId>jackson-databind</artifactId>  
    <version>2.5.4</version>  
</dependency>
```

Sevlet-context.xml

```
<!-- Enables the Spring MVC @Controller programming model -->  
<annotation-driven />
```

VO 객체 생성

```
@JsonIgnoreProperties({ "num", "name" })  
public class MessageVO {  
  
    int number;  
    String message;  
    String status;  
    String code;  
    int num;  
    String name;  
  
    @JsonIgnore  
    Date datetime;  
}
```

Getter/setter 필수

VO 객체 생성

```
}  
@JsonProperty("statusCode")  
public String getCode() {  
    return code;  
}  
public void setCode(String code) {  
    this.code = code;  
}  
public Date getDatetime() {  
    return datetime;  
}  
@JsonIgnore  
public void setDatetime(Date datetime) {  
    this.datetime = datetime;  
}  
}
```

/sendVO

```
@Inject
public MessageVO vo;

@RequestMapping("/sendVO")
public MessageVO sendVO() {
    vo.setCode("00");
    vo.setMessage("json 객체로 전송");
    return vo;
}
```

```
{
  "number": 0,
  "message": "json 객체로 전송",
  "status": null,
  "statusCode": "00"
}
```

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Filter ☐ Hide data URLs **All** XHR JS CSS Img Media Font Doc WS Manifest Other

	20 ms	40 ms	60 ms	80 ms	100 ms	120 ms	140 ms	160 ms

Name

sendVO

data:image/png;base...

× Headers Preview Response Cookies Timing

▼ General

Request URL: http://localhost:8080/sendVO

Request Method: GET

Status Code: 200

Remote Address: [::1]:8080

Referrer Policy: no-referrer-when-downgrade

▼ Response Headers [view source](#)

Content-Type: application/json;charset=UTF-8

Date: Sun, 03 Dec 2017 03:01:29 GMT

Transfer-Encoding: chunked

2 requests | 206 B transferred | Filter

/listVO

```
@RequestMapping("/listVO")
public List<MessageVO> listVO() {
    List<MessageVO> list = new ArrayList<MessageVO>();
    for (int i = 0; i < 10; i++) {
        vo.setNumber(i);
        vo.setCode("00");
        vo.setMessage("json 객체로 전송");
        list.add(vo);
    }

    return list;
}
```

```
▼ [
  ▼ {
    "number": 9,
    "message": "json 객체로 전송",
    "status": null,
    "statusCode": "00"
  },
  ▼ {
    "number": 9,
    "message": "json 객체로 전송",
    "status": null,
    "statusCode": "00"
  },
  ▼ {
    "number": 9,
    "message": "json 객체로 전송",
    "status": null,
    "statusCode": "00"
  },
  ▼ {
    "number": 9,
    "message": "json 객체로 전송",
    "status": null,
    "statusCode": "00"
  },
  ▼ {
    "number": 9,
    "message": "json 객체로 전송",
    "status": null,
    "statusCode": "00"
  }
]
```

/mapVO

```
@RequestMapping("/mapVO")
public Map<Integer, MessageVO> mapVO() {
    Map<Integer, MessageVO> map = new HashMap<Integer, MessageVO>();
    for (int i = 0; i < 10; i++) {
        vo.setNumber(i);
        vo.setCode("00");
        vo.setMessage("json 객체로 전송");
        map.put(i, vo);
    }
    return map;
}
```

localhost:8080/mapVO



index.htm



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Bookmarks



업무



```
{
  "0": {
    "number": 9,
    "message": "json 객체로 전송",
    "status": null,
    "statusCode": "00"
  },
  "1": {
    "number": 9,
    "message": "json 객체로 전송",
    "status": null,
    "statusCode": "00"
  },
  "2": {
    "number": 9,
    "message": "json 객체로 전송",
    "status": null,
    "statusCode": "00"
  },
  "3": {
    "number": 9,
    "message": "json 객체로 전송",
    "status": null,
    "statusCode": "00"
  },
  "4": {
    "number": 9,
    "message": "json 객체로 전송",
    "status": null,
    "statusCode": "00"
  }
}
```

/view

```
    }  
  
    @RequestMapping("/view")  
    public ModelAndView view() {  
        ModelAndView mv = new ModelAndView();  
        mv.setViewName("home");  
        return mv;  
    }  
}
```

리턴타입 ModelAndView

← → ↻ ⓘ localhost:8080/view

앱 index.htm KKWAK_DashBoard... Projects

Hello world!

The time on the server is .

@ResponseEntity

/sendError

```
@RequestMapping("/sendError")  
public ResponseEntity<Void> sendError() {  
    return new ResponseEntity<Void>(HttpStatus.NOT_FOUND);  
}
```

Status code 만 전송

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View: ☐ Group by frame ☐ Preserve log ☐ Disable cache ☐ Offline Online

Filter ☐ Hide data URLs **All** XHR JS CSS Img Media Font Doc WS Manifest Other

	5 ms	10 ms	15 ms	20 ms	25 ms	30 ms	35 ms	40 ms	45 ms	50 ms
Name										
sendError	<div><div>×</div><div>Headers</div><div>Preview</div><div>Response</div><div>Cookies</div><div>Timing</div></div> <div><div>▼ General</div><div>Request URL: http://localhost:8080/sendError</div><div>Request Method: GET</div><div>Status Code: 404</div><div>Remote Address: [::1]:8080</div><div>Referrer Policy: no-referrer-when-downgrade</div></div> <div><div>▼ Response Headers</div><div>view source</div><div>Content-Length: 0</div><div>Date: Sun, 03 Dec 2017 03:17:50 GMT</div></div> <div><div>▼ Request Headers</div><div>view source</div></div>									

/sendErrorNotFound

```
@RequestMapping("/sendErrorNotFound")
public ResponseEntity<MessageVO> sendErrorNotFound() {
    vo.setMessage("404 NOT Found");
    return new ResponseEntity<MessageVO>(vo, HttpStatus.NOT_FOUND);
}
```

에러메시지도 전송

```
{
  "number": 0,
  "message": "404 NOT Found",
  "status": null,
  "statusCode": null
}
```

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Filter ☐ Hide data URLs **All** XHR JS CSS Img Media Font Doc WS Manifest Ot

	50 ms	100 ms	150 ms	200 ms

Name	×	Headers	Preview	Response	Cookies	Timing
sendErrorNotFound						
data:image/png;base...						

▼ **General**

Request URL: http://localhost:8080/sendErrorNotFound

Request Method: GET

Status Code: 404

Remote Address: [::1]:8080

Referrer Policy: no-referrer-when-downgrade

▼ **Response Headers** [view source](#)

Content-Type: application/json;charset=UTF-8

Date: Sun, 03 Dec 2017 03:19:55 GMT

Transfer-Encoding: chunked

▼ **Request Headers** [view source](#)

2 requests | 198 B transferred | Fil...

/sendErrorBad

```
@RequestMapping("/sendErrorBad")
@ResponseStatus(value=HttpStatus.BAD_GATEWAY)
public MessageVO sendErrorBad() {
    vo.setMessage("Bad Gateway");
    return vo;
}
```

리턴타입 : json 객체

```
{
  "number": 0,
  "message": "Bad Gateway",
  "status": null,
  "statusCode": null
}
```

Elements Console Sources **Network** Performance Memory Application Security

View: ☐ Group by frame ☐ Preserve log ☐ Disable cache ☐ Offline On

Filter ☐ Hide data URLs **All** XHR JS CSS Img Media Font Doc WS Manifest C

	20 ms	40 ms	60 ms	80 ms	100 ms	120 ms	140 ms	160 ms	180 ms
Name									
sendErrorBad									
data:image/png;base...									

× Headers Preview Response Cookies Timing

▼ **General**

Request URL: http://localhost:8080/sendErrorBad
Request Method: GET
Status Code: 502
Remote Address: [::1]:8080
Referrer Policy: no-referrer-when-downgrade

▼ **Response Headers** [view source](#)

Content-Type: application/json;charset=UTF-8
Date: Sun, 03 Dec 2017 03:21:55 GMT
Transfer-Encoding: chunked

▼ **Request Headers** [view source](#)

Accept: text/html,application/xhtml+xml,application/xml;q=0.9...

2 requests | 196 B transferred | Fi...