

Consuming RESTful Web Services

Step 1: Creating a class Quote to work with the public REST service

```
package com.ecommerce.beans;
import com.fasterxml.jackson.annotation.*;

import com.fasterxml.jackson.annotation.JsonIgnoreProperties;

@JsonIgnoreProperties(ignoreUnknown = true)
public class Quote {

    private String type;
    private Value value;

    public Quote() {
    }

    public String getType() {
        return type;
    }

    public void setType(String type) {
        this.type = type;
    }

    public Value getValue() {
        return value;
    }

    public void setValue(Value value) {
        this.value = value;
    }

    @Override
```

```

    public String toString() {
        return "Quote{" +
            "type=" + type + "\" +
            ", value=" + value +
            '"';
    }
}

```

Step 2: Creating a class Value to act as a wrapper for the REST data package com.ecommerce.beans;

```
import com.fasterxml.jackson.annotation.JsonIgnoreProperties;
```

```
@JsonIgnoreProperties(ignoreUnknown = true)
public class Value {
```

```
    private Long id;
    private String quote;
```

```
    public Value() {
    }

```

```
    public Long getId() {
        return this.id;
    }

```

```
    public String getQuote() {
        return this.quote;
    }

```

```
    public void setId(Long id) {
        this.id = id;
    }

```

```
    public void setQuote(String quote) {
        this.quote = quote;
    }

```

```

    }

    @Override
    public String toString() {
        return "Value{" +
            "id=" + id +
            ", quote='" + quote + "'" +
            "}";
    }
}

```

Step 3: Creating MainController to consume the REST service

```
package com.ecommerce.controllers;
```

```

import org.springframework.http.HttpStatus;
import org.springframework.http.ResponseEntity;
import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.annotation.ResponseBody;
import org.springframework.web.client.RestTemplate;

```

```
import com.ecommerce.beans.Quote;
```

```

@Controller
public class MainController {

```

```

    @RequestMapping("/")
    @ResponseBody
    public String index() {

```

```

        RestTemplate restTemplate = new RestTemplate();
        Quote quote = restTemplate.getForObject("https://gturquist-
quoters.cfapps.io/api/random", Quote.class);

```

```
        return quote.toString();  
    }  
  
}
```