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Consuming REST Services

- Overview
- Key methods in RestTemplate
- Example
- Key classes in the REST client application
- Aside: Consuming a REST service from HTML

Overview

- Spring enables you to implement client code to consume REST services
 - Via the `RestTemplate` class
- Include the following POM dependency:

```
<dependency>  
  <groupId>org.springframework.boot</groupId>  
  <artifactId>spring-boot-starter-web</artifactId>  
</dependency>
```

`pom.xml`

Key Methods in RestTemplate

- Here are some of the key methods in RestTemplate:

```
ResponseEntity<T> getForEntity(String, Class<T>, Object...)
```

```
ResponseEntity<T> postForEntity(String, Object, Class<T>, Object...)
```

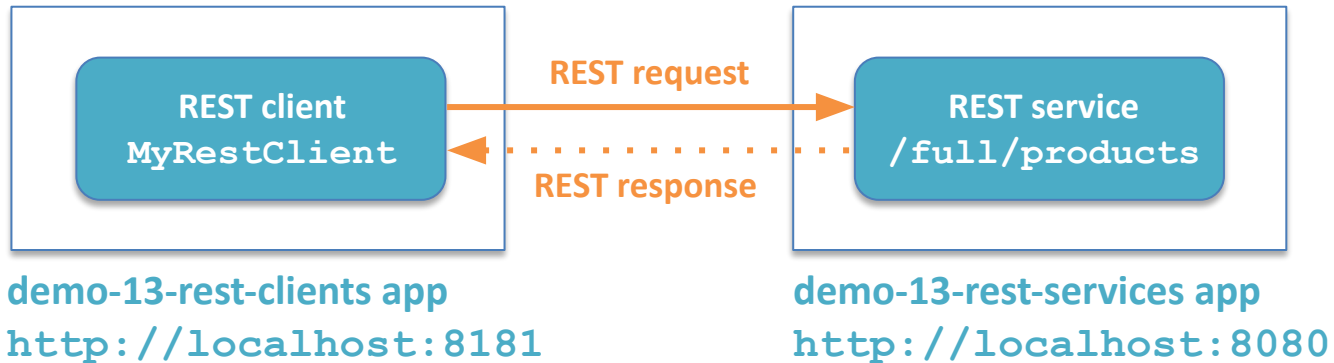
```
void put(String, Object, Object...)
```

```
void delete(String, Object...)
```

```
ResponseEntity<T> exchange(String, HttpMethod, object, Class<T>)
```

Example

- Let's see an example of how to consume REST endpoints:

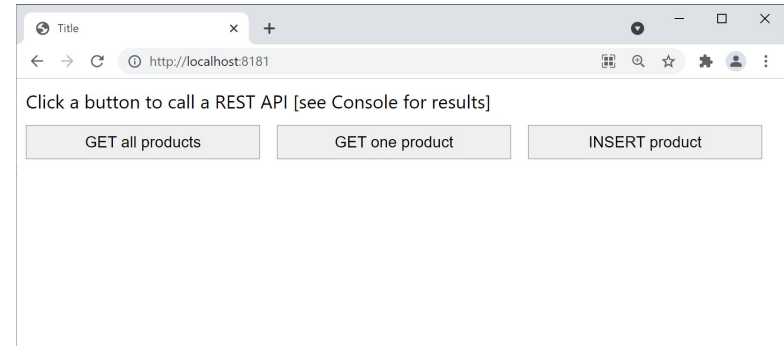


Key Classes in the REST Client Application

- `MyRestClient`
 - Calls REST service endpoints, by using `RestTemplate`
- `Product`
 - `Product` objects passed to/from REST service
 - Serialized/deserialized by `RestTemplate`

Aside: Consuming a REST service from HTML

- We've also implemented a simple HTML page to show how to consume a REST service from a web UI
 - Project: `demo-13-rest-clients`
 - Folder: `src/main/resources/static`
- Open a browser and browse to `http://localhost:8181`



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Summary

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- Example
- Key classes in the REST client application
- Aside: Consuming a REST service from HTML