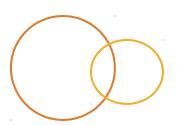
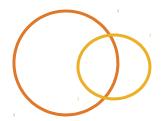




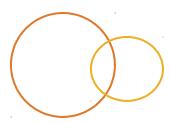
End to End Testing with RESTAssured

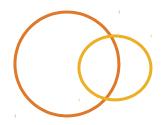








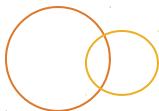


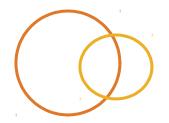




- ©Create a maven-based project for end-to-end tests using REST Assured and TestNG
- Locate REST Assured documentation
- Send GET, POST, PUT, DELETE, and PATCH requests on URLs and with entity bodies where appropriate
- Send requests with path parameters, query parameters, and headers
- Validate simple assertions about data in JSON entity responses
- Validate simple assertions about headers in responses
- Validate simple assertions about response status code



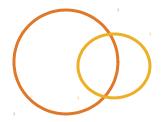






OGive an overview of the key difference between REST Assured testing and options for "containerless" testing in the context of mocking and unit testing







- Project for testing / assertions on REST type services
- •Works "over the wire"
 - Does not support "in-memory" testing, and therefore does not support mocking of service elements
 - Project hosted in Google code at:
- https://code.google.com/p/rest-assured/
- Getting started docs at:
- …/rest-assured/wiki/GettingStarted
- •Usage guide with lots of examples:
- .../wiki/Usage



- Build a maven project with dependency:
 - groupId: com.jayway.restassured
 - artifactId: rest-assured
- Make static imports com.jayway.restassured.RestAssured.* com.jayway.restassured.matcher.RestAssuredMatchers.* org.hamcrest.Matchers.*

REST Assured Programming



REST Assured emphasizes a fluent programming style and X-Path like field expressions for verification

```
get("http://localhost:8080/data/data/0")
.then().assertThat()
.statusCode(200)
.and()
.body("dataT0.value", equalTo("1"));
```

General Flow Of REST Assured

- REST Assured tests typically start with preparing the request:
- ogiven()
 - formParam(key, value)
 - queryParam(key, value)
 - opathParam(key, value) path params are named
 - ocookie(key, value)
 - header(key, value)
 - request().body(entity) or simply body(entity)
 - contentType(mimeType)

General Flow Of REST Assured



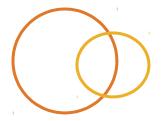
- After preparing the request, issue it:
- ogiven()...when()
 - post(url)
 - oget(url)
 - oput(url)
 - odelete(url)
- •Use named path parameters already configured in the given() clause:
 - o get("http://blah.com/customers/{pathParam}")

General Flow Of REST Assured



- •Then perform validations or extractions on the result
- ogiven()...when()...then().assertThat()
 - statusCode(value)
 - header(key, value)
 - body(equalTo(stringBody))
 - body("path.spec.value", equalTo(5))







•Create a Java test using that exercises one of the service endpoints in your existing code. Verify that the service returns the data you expect.