



# Testing Spring

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Beginner to Guru

Introduction to Wiremock



## Introduction to Wiremock

- Wiremock is a simulator for HTTP based APIs
- Can be configured to serve canned responses
- Also, can be used to verify requests
- Originally developed by Tom Akehurst in 2011
- Frequently used for development and testing
- Like Mockito for web services



## Wiremock Features

- HTTP Response Stubbing
  - Response based on matchers for URL, header, and/or body
- Request Verification
- Run for Unit tests or standalone
- Configure via Java, JSON, or JSON over HTTP
- Recording and playback
- Configurable delays



```
@Test
public void exampleTest() {
    stubFor(get(urlEqualTo("/my/resource"))
        .withHeader("Accept", equalTo("text/xml"))
        .willReturn(aResponse()
            .withStatus(200)
            .withHeader("Content-Type", "text/xml")
            .withBody("<response>Some content</response>"))));

    Result result = myHttpServiceCallingObject.doSomething();

    assertTrue(result.wasSuccessful());

    verify(postRequestedFor(urlMatching("/my/resource/[a-z0-9]+"))
        .withRequestBody(matching(".*<message>1234</message>.*"))
        .withHeader("Content-Type", notMatching("application/json")));
}
```





```
{
  "id" : "5648d10e-ca03-447b-8450-ef05b058c521",
  "request" : {
    "url" : "/v1/payors/0a818933-087d-47f2-ad83-2f986ed087eb/applications/ba08877f-9d96-41e4-9c26-44a872d856ae/keys",
    "method" : "POST",
    "headers" : {
      "Content-Type" : {
        "matches" : "application/json.*"
      }
    },
    "bodyPatterns" : [ {
      "matchesJsonPath" : "$[?(@.name =~ /(\\S\\s+)/)]"
    }, {
      "matchesJsonPath" : "$[?(@.description =~ /(\\S\\s+)/)]"
    }, {
      "matchesJsonPath" : "$[?(@.roles =~ /(\\S\\s+)/)]"
    } ]
  },
  "response" : {
    "status" : 200,
    "body" : "{\"apiKey\":\"385d4506-e7dd-446e-a092-5f30b98e7b26\",\"apiSecret\":\"f25767d9-342a-48ac-a788-0a7a38ae6fb3\"}",
    "transformers" : [ "response-template" ]
  },
  "uuid" : "5648d10e-ca03-447b-8450-ef05b058c521"
}
```

