Upgrading your API mocking with WireMock extensions

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WireMock use cases

Testing earlier

Testing more

Testing more often

Out of the box,
WireMock can already
do many things

WireMock extensions

Before we begin, a word of caution…

WireMock extensions

Request filtering

Custom request matchers

Post-serve actions

Response (definition) transformers

WireMock extensions

Request filtering

Custom request matchers

Post-serve actions

Response (definition) transformers

Request filtering

- Modify incoming requests (or halt processing)

- This has a variety of use cases:
  - Checking authentication details
  - Request header injection
  - URL rewriting

- Created by extending StubRequestFilter class

Request filtering

in action

WireMock extensions

Request filtering

Custom request matchers

Post-serve actions

Response (definition) transformers

Custom request matchers

- Add custom request matching logic to WireMock
- Can be combined with existing standard matchers
- Done by extending RequestMatcherExtension class

Custom request matching

in action

WireMock extensions

Request filtering

Custom request matchers

Post-serve actions

Response (definition) transformers

Post-serve actions

_Perform specific actions after serving response

_Logging, writing to database, …

_Done by extending PostServeAction class

Post-serve actions

in action

WireMock extensions

Request filtering

Custom request matchers

Post-serve actions

Response (definition) transformers

Response transformation

- Create responses in a more dynamic and reusable fashion

- Two types of use cases
  - Define response definition
  - Add specific information to existing response

- Done by extending ResponseDefinitionTransformer and ResponseTransformer class, respectively

Response (definition)
transformers

in action

https://wiremock.org/docs/extending-wiremock/

https://github.com/basdijkstra/wiremock-extensions

https://github.com/basdijkstra/wiremock-workshop

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