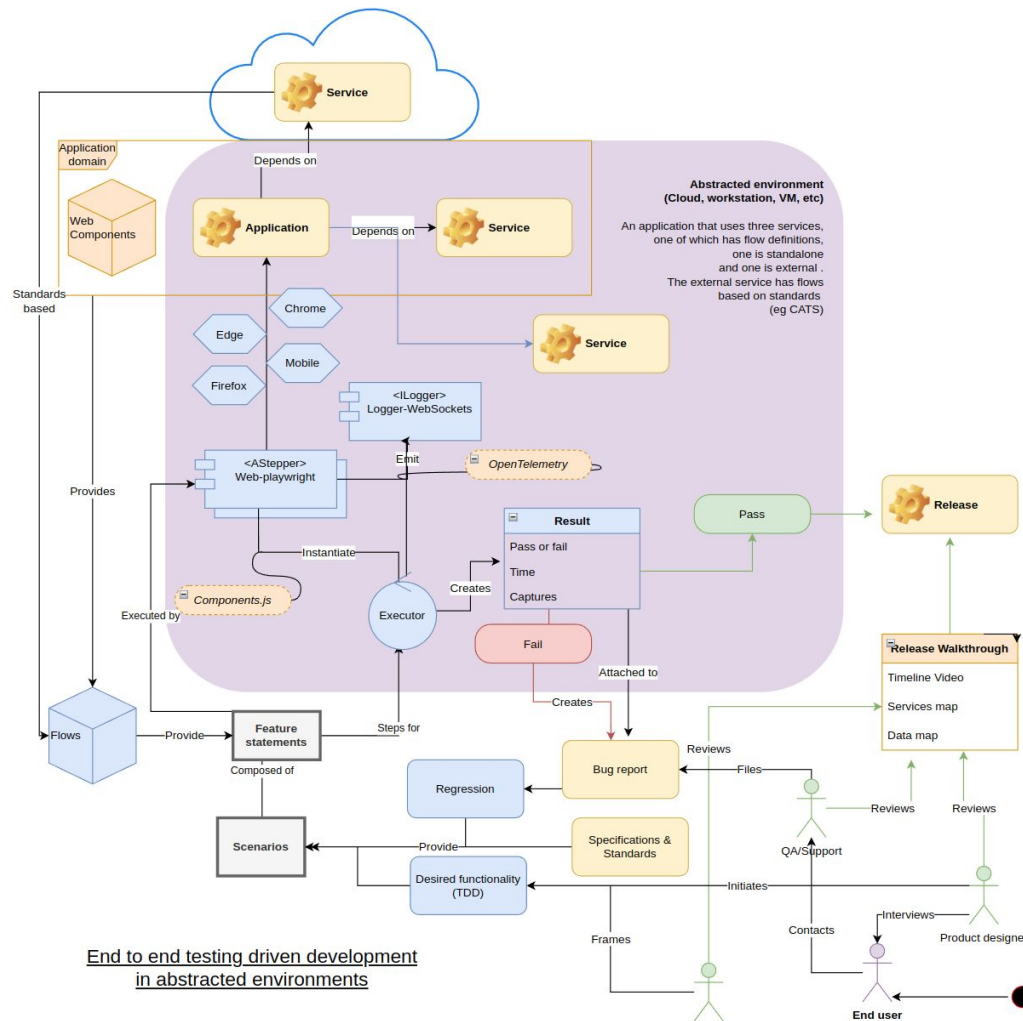


November, 2023

Overview diagram



Important elements of Haibun

Reduce the friction for developing high standard products (specs, tests, documentation)

Understandable by anyone, produce clear artifacts

Fits into existing systems, one piece of the puzzle

- Development pipelines
- Local or cloud environments

Very high level of re-use: Specification → flows → features → scenarios -> steps

Re-use for load tests

Standalone test

Feature: A form and counter

Backgrounds: counter

When I have a valid random username <username>

Go to the form webpage

When I input <username> for user name

And I click the button Submit

Then I should see Success

And the URI query parameter username is <username>

```

  ✓ local-tests
    ✓ client
      ✓ backgrounds
        ≡ service.feature
      ✓ features
        ≡ load-tests.feature
      {} config.json
    ✓ client-test
      > backgrounds
      ✓ features
        ≡ counter.feature
      {} config.json
    ✓ dispatcher
      > backgrounds
      ✓ features
        ≡ load-tests.feature
      {} config.json

```

Test dispatcher

Feature: Simulated load test

Background features are loaded for the test environment.

Files crucial for load testing are served for the automated testing process.

serve files at /counter from "counter"

The test navigates to the authentication page and performs simulated login actions.

The load testing settings are configured to trigger tests from the a local folder.

Dispatch load tests from **"local-tests/client-test"**

Clients

Feature: Client load test

start load test client

Feature

FROM

mcr.microsoft.com/playwright:v1.39.0-jammy

WORKDIR /usr/src/app

COPY package*.json ./

RUN npm install

COPY . .

COPY . ./

COPY .dockerignore ./

CMD ["npm", "run", "local-client"]

version: '3.8'

services:

local-client:

build: .

env_file:

- env-client

network_mode: "host"

docker-compose.yml

```
HAIBUN_O_WEBPLAYWRIGHT_STORAGE=StorageFS
HAIBUN_O_WEBPLAYWRIGHT_HEADLESS=true
HAIBUN_O_HAIBUNLOADTESTSSTEPPER_TOKEN=loca
l92
HAIBUN_O_HAIBUNLOADTESTSSTEPPER_TRACKS_ST
ORAGE=StorageFS
HAIBUN_TRACE=true
HAIBUN_O_OUTREVIEWS_STORAGE=StorageFS
HAIBUN_O_HAIBUNLOADTESTSSTEPPER_DISPATCHE
R_ADDRESS=http://192.168.0.200:8123
```

env-client

Running the load test locally using Docker

```
vid@spruce: ~ — Konsole <2>

trying local-tests/client-test/config.json
l server-express:68 adding get route from /dispatch
l server-express:68 adding post route from /results
info Dispatcher:56 started load tests for 500 tests from local-tests/client-test
log Dispatcher:163 results true, finished 1 of 500 tests
l Dispatcher:163 results true, finished 2 of 500 tests
l Dispatcher:163 results true, finished 3 of 500 tests
l Dispatcher:163 results true, finished 4 of 500 tests
l Dispatcher:163 results true, finished 5 of 500 tests
l Dispatcher:163 results true, finished 6 of 500 tests
l Dispatcher:163 results true, finished 7 of 500 tests
l Dispatcher:163 results true, finished 8 of 500 tests
l Dispatcher:163 results true, finished 9 of 500 tests
l Dispatcher:163 results true, finished 10 of 500 tests
l Dispatcher:163 results true, finished 11 of 500 tests
l Dispatcher:163 results true, finished 12 of 500 tests
l Dispatcher:163 results true, finished 13 of 500 tests
l Dispatcher:163 results true, finished 14 of 500 tests
l Dispatcher:163 results true, finished 15 of 500 tests
l Dispatcher:163 results true, finished 16 of 500 tests
l Dispatcher:163 results true, finished 17 of 500 tests
l Dispatcher:163 results true, finished 18 of 500 tests
l Dispatcher:163 results true, finished 19 of 500 tests
l Dispatcher:163 results true, finished 20 of 500 tests
l Dispatcher:163 results true, finished 21 of 500 tests
l Dispatcher:163 results true, finished 22 of 500 tests

haibun-load-tests-local-client-685 l Executor:48 feature 1: /features/counter.feature
haibun-load-tests-local-client-685 l Executor:48 Feature: A form and counter
haibun-load-tests-local-client-685 l task queues:95
haibun-load-tests-local-client-685 l task queues:95 Set Submit to /**[id="submit"]
haibun-load-tests-local-client-685 l task queues:95 Set user name to /**[id="username"]
haibun-load-tests-local-client-685 l task queues:95 Set form to http://localhost:8123/counter/
haibun-load-tests-local-client-685 l task queues:95 Set results to http://localhost:8123/counter/result.html
haibun-load-tests-local-client-685 l task queues:95 When I have a valid random username <username>
haibun-load-tests-local-client-685 l task queues:95 Go to the form webpage
haibun-load-tests-local-client-685 info web-playwright:108 creating new page for 29
haibun-load-tests-local-client-685 i BrowserFactory:143 creating new context 29 chromium
haibun-load-tests-local-client-685 log BrowserFactory:145 setPage [object Object]
haibun-load-tests-local-client-681 l task queues:60
haibun-load-tests-local-client-710 l StepperClient:44 posted results for sequence 23, ok: true, continue: true
haibun-load-tests-local-client-681 l task queues:60 Then I should see Success
haibun-load-tests-local-client-649 l Executor:48
haibun-load-tests-local-client-649 l Executor:48 When I input <username> for user name
haibun-load-tests-local-client-666 l Executor:48
haibun-load-tests-local-client-666 l Executor:48 And I click the button Submit

[1] @docker* vid@spruce: ~/D/dev/w/ 16:42 23-Nov-23
```

Report

Load test results are added to the set of generalized Haibun test artifacts.

Reviews — Mozilla Firefox <@nodev-ubuntu>

Reviews

127.0.0.1:8080/reviewer.html#source=/tracks/_publish-tracksHistory.json&source=/tracks/_publish-tracksHistory.json&index=0&group=capture/default/_

Reviews

View Documentation

✓ **Simulated load test**

Feature: Simulated load test

Background features are loaded for the test environment.

Files crucial for load testing are served for the automated testing process.

The test navigates to the authentication page and performs simulated login actions.

The load testing settings are configured to trigger tests from the a local folder.

info results request.html

info client report request.html

✓ Dispatch load tests from "local-tests/client-test"

numCompleted	totalRunTime	average	passed	failed	clients	dispatchTotal	completeTotal
500	35.591	0.071182	500	0	50	500	500