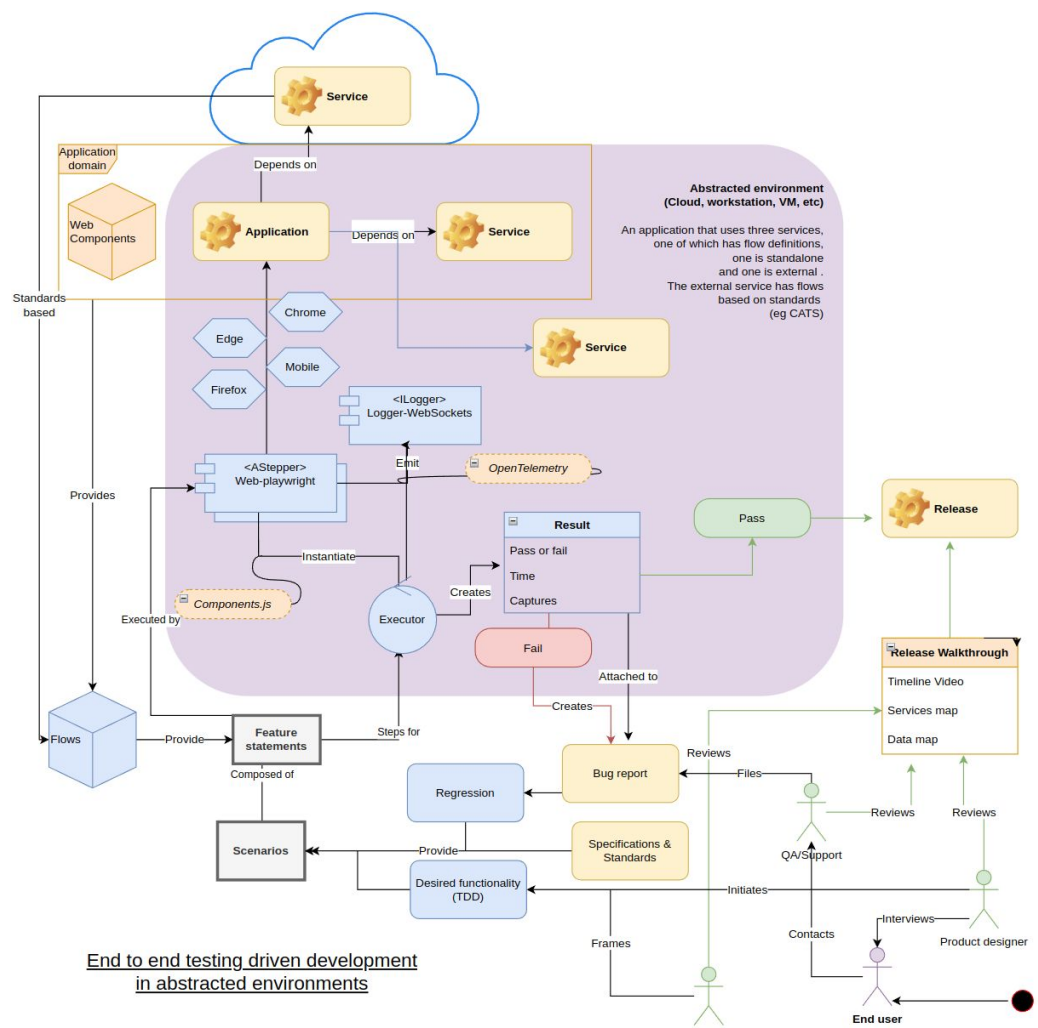



End to end  
test driven  
development  
in  
abstracted  
environments



Overview diagram

# End to end testing

Test the functionality  
and performance  
of an application  
under product-like circumstances  
(services, data, user environments)  
to replicate live settings.  
The goal is to simulate  
what a real user scenario looks like  
from start to finish.



withhaibun

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Overview
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README.md

withhaibun

This is the organization for the Haibun natural language, implementation agnostic approach to specification and testing.

haibun

Public

Integration testing and automation using natural language and diverse processors.

TypeScript 0 2 0 0 0 Updated 2 days ago

haibun-e2e-tests

Public

Sample end to end / integration features with Haibun.

TypeScript 0 0 0 0 0 Updated 2 days ago

haibun-e2e-tests

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Sample end to end / integration features with Haibun.

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haibun

Public

Integration testing and automation using natural language and diverse processors.

TypeScript 2 0 0 0 0 Updated 2 days ago

haibun-web-accessibility-axe

Public

Web accessibility checker that uses axe implementation to validate the accessibility of webpages

HTML 0 0 0 2 0 Updated 4 days ago

haibun-web-accessibility-lighthouse

Public

HTML 0 0 0 1 0 Updated on Jan 10

haibun-email-testing

Public

Features for testing standard email facilities.

TypeScript 0 0 0 0 0 Updated on Dec 20, 2022

haibun-https

Public

Https testing and renewal

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haibun-azure

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Microsoft Azure facilities for Haibun

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.github

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0 0 0 0 0 Updated on Aug 22, 2022

haibun-sarif

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Index sarif files

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People



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Top languages


TypeScript HTML

Most used topics

agent bdd e2e testing

Manage

<https://github.com/withhaibun>



vid add default env

d17ed0d 44 minutes ago 11 commits

files	complete regression for file uploading, update README	5 days ago
haibun	refactor	12 hours ago
publish	refactor	12 hours ago
.gitignore	update readme	5 months ago
README.md	complete regression for file uploading, update README	5 days ago
azure-pipelines.yml	refactor	12 hours ago
config.json	refactor	12 hours ago
default-env.sh	add default env	44 minutes ago
package-lock.json	update packages	12 hours ago
package.json	update packages	12 hours ago

README.md

gccollab-e2e-tests

End to end tests with Haibun.

Use node version 18 (or later).

cd to the project directory, then

npm i to install libraries

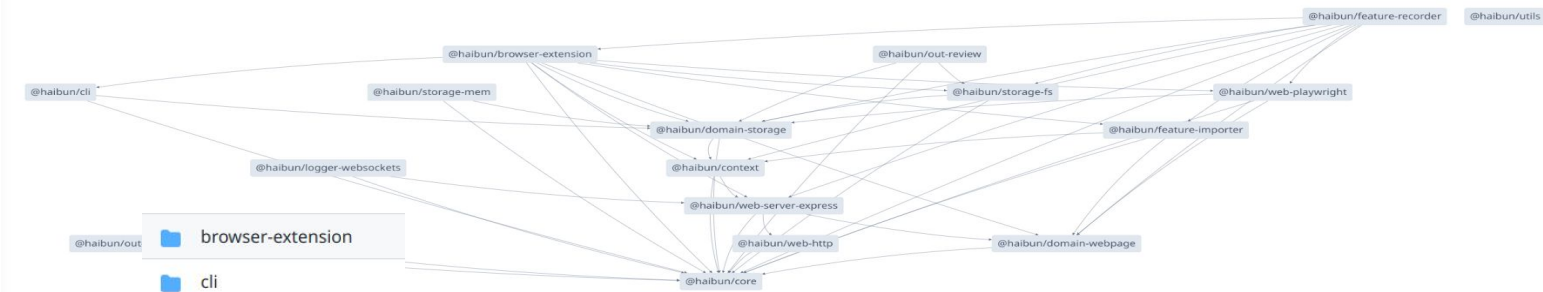
use npm run to see what tests are available.

Most tests require the environmental variables username and password to be set, and to pass these variables like this: HAIBUN\_ENVC=username=\$username,password=\$password . For example, HAIBUN\_ENVC=username=\$username,password=\$password npm run test-cipher

Features are in haibun/.

Take a look at scripts in package.json for more test options.

<https://github.com/vid/gccollab-e2e-tests>



Module dependencies

- browser-extension
- cli
- context
- core
- domain-storage
- domain-webpage
- feature-importer
- feature-recorder
- logger-websockets
- out-review
- out-xunit
- parse-md
- storage-fs
- storage-mem
- utlis
- web-http
- web-playwright
- web-server-express

Essential modules  
including abstractions;  
domains, storage  
implementations

**haibun-e2e-tests** / Public  
Sample end to end / integration features with Haibun.  
TypeScript 0 0 0 0 Updated 2 days ago

**haibun** / Public  
Integration testing and automation using natural language and diverse processors.  
TypeScript 2 1 1 0 Updated 2 days ago

**haibun-web-accessibility-axe** / Public  
Web accessibility checker that uses axe implementation to validate the accessibility of webpages  
HTML 0 0 2 0 Updated 5 days ago

**haibun-web-accessibility-lighthouse** / Public  
Features for testing standard email facilities.  
HTML 0 0 1 0 Updated on jan 10

**haibun-email-testing** / Public  
Features for testing standard email facilities.  
TypeScript 0 0 0 0 Updated on Dec 20, 2022

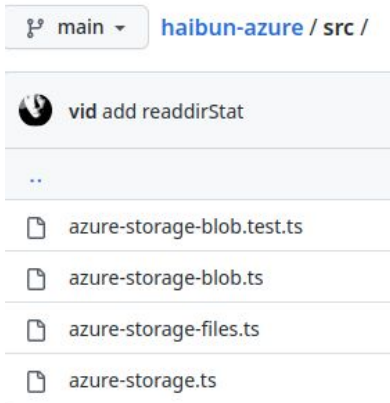
**haibun-https** / Public  
https testing and renewal  
TypeScript 0 0 0 0 Updated on Dec 20, 2022

**haibun-azure** / Public  
Microsoft Azure facilities for Haibun  
TypeScript 0 0 0 0 Updated on Dec 20, 2022

**github** / Public  
0 0 0 0 Updated on Aug 22, 2022

**haibun-sarif** / Public  
index sarif files  
TypeScript 0 0 0 0 Updated on Jul 4, 2022

Module ecosystem



Storage implementation  
and [pipeline](#)

for Azure  
(files & blobs).

The pipeline uses the haibun-azure module,  
so Azure volumes can store artifacts  
with retention schemes  
per test or deployment type.

```
trigger:
- test-e2e

jobs:
- job: e2etests
  pool:
    vmImage: 'ubuntu-latest'
  container:
    image: mcr.microsoft.com/playwright:focal
    volumes: [e2e-reviews]
  steps:
  - task: Npm@1
    inputs:
      command: 'install'
      displayName: 'installing dependencies'
  - task: CmdLine@2
    displayName: 'Running login e2e tests'
    continueOnError: true
    inputs:
      script: |
        npm run
        HAIBUN_TITLE="Login e2e tests" HAIBUN_DEST=e2e HAIBUN_O_OUTREVIEWS_TRACE_STORAGE=StorageFS
        HAIBUN_O_WEBPLAYWRIGHT_STORAGE=StorageFS HAIBUN_ENVC=${_ENV} npm run test-pipeline-login

  - task: CmdLine@2
    displayName: 'Running regression e2e tests'
    continueOnError: true
    inputs:
      script: |
        HAIBUN_TITLE="Regression e2e tests" HAIBUN_DEST=regressions HAIBUN_O_OUTREVIEWS_TRACE_STORAGE=StorageFS
        HAIBUN_O_WEBPLAYWRIGHT_STORAGE=StorageFS HAIBUN_ENVC=${_ENV} npm run test-pipeline-regressions

  - task: CmdLine@2
    displayName: 'Generate sarif indexes'
    continueOnError: true
    inputs:
      script: |
        HAIBUN_DEST=sarif HAIBUN_O_AZURESTORAGEBLOB_DESTINATION='staticanalysis-sc'
        HAIBUN_O_SARIF_TRACE_STORAGE=AzureStorageBlob HAIBUN_O_SARIF_INDEX_STORAGE=StorageFS
        HAIBUN_O_AZURESTORAGEBLOB_ACCOUNT=${_O_AZURESTORAGEBLOB_ACCOUNT} HAIBUN_O_AZURESTORAGEBLOB_KEY=${_O_AZURESTORAGEBLOB_KEY} npm
        run test-pipeline-index-sarif

  - task: CmdLine@2
    displayName: 'Generate test result indexes'
    continueOnError: true
    inputs:
      script: |
        HAIBUN_O_OUTREVIEWS_TRACE_STORAGE=StorageFS HAIBUN_O_OUTREVIEWS_PUBLISH_STORAGE=AzureStorageBlob
        HAIBUN_O_OUTREVIEWS_INDEX_STORAGE=StorageFS HAIBUN_O_OUTREVIEWS_REVIEW_STORAGE=AzureStorageBlob
        HAIBUN_O_AZURESTORAGEBLOB_DESTINATION=e2e-reviews-sc HAIBUN_O_AZURESTORAGEBLOB_ACCOUNT=${_O_AZURESTORAGEBLOB_ACCOUNT}
        HAIBUN_O_AZURESTORAGEBLOB_KEY=${_O_AZURESTORAGEBLOB_KEY} HAIBUN_O_OUTREVIEWS_URI_ARGS=${_O_OUTREVIEWS_URI_ARGS} npm run
        test-pipeline-indexes
```

- Implemented with minimum of dependencies
- Highest fidelity for testing in each domain.  
Generate diagrams, videos, etc.
- Application tests only contain the minimum versioned high level language, that could be understood by anyone.
- Very high level of reusability between systems, reusable, versioned flows can be based on specifications, standards, components, applications
- Scenarios as descriptions of swappable systems  
(identity provider, cloud, services, interface)
- Very practical  
yet very wide potential scope
- Seamless integration  
in best practice system
- Based on very standard approaches  
(Playwright, Jest, Testing library),  
possible to “eject” basic standalone tests.



```
describe('my form', () => {
  it('can submit a valid form', () => {
    cy.visit('/users/new')

    cy.log('filling out first name') // if you really need this
    cy.get('[data-testid="first-name"]').type('Johnny')

    cy.log('filling out last name') // if you really need this
    cy.get('[data-testid="last-name"]').type('Appleseed')

    cy.log('submitting form') // if you really need this
    cy.get('form').submit()
  })
})
```

### *Cypress test*

- Completely tied to specific implementation (not abstract)
- No consideration for connected services (not comprehensive)
- Gobbledygook

### Feature: Happy path login

This flow logs the user in using username and password.

On the gccollab login webpage

When I input {username} for username

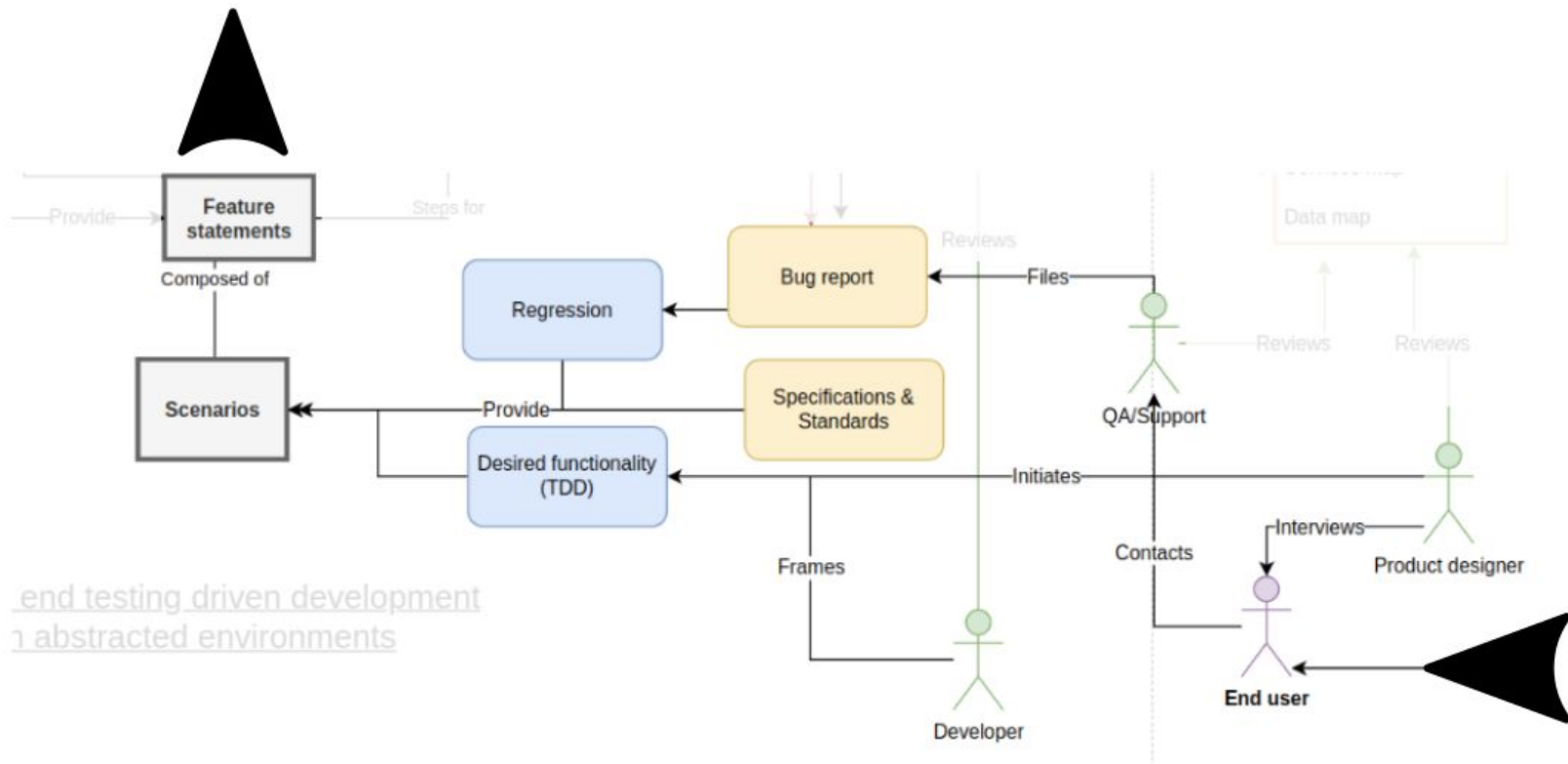
And I input {password} for password

And I click on Login

Then I should be on the post login page

---

### *Haibun test*

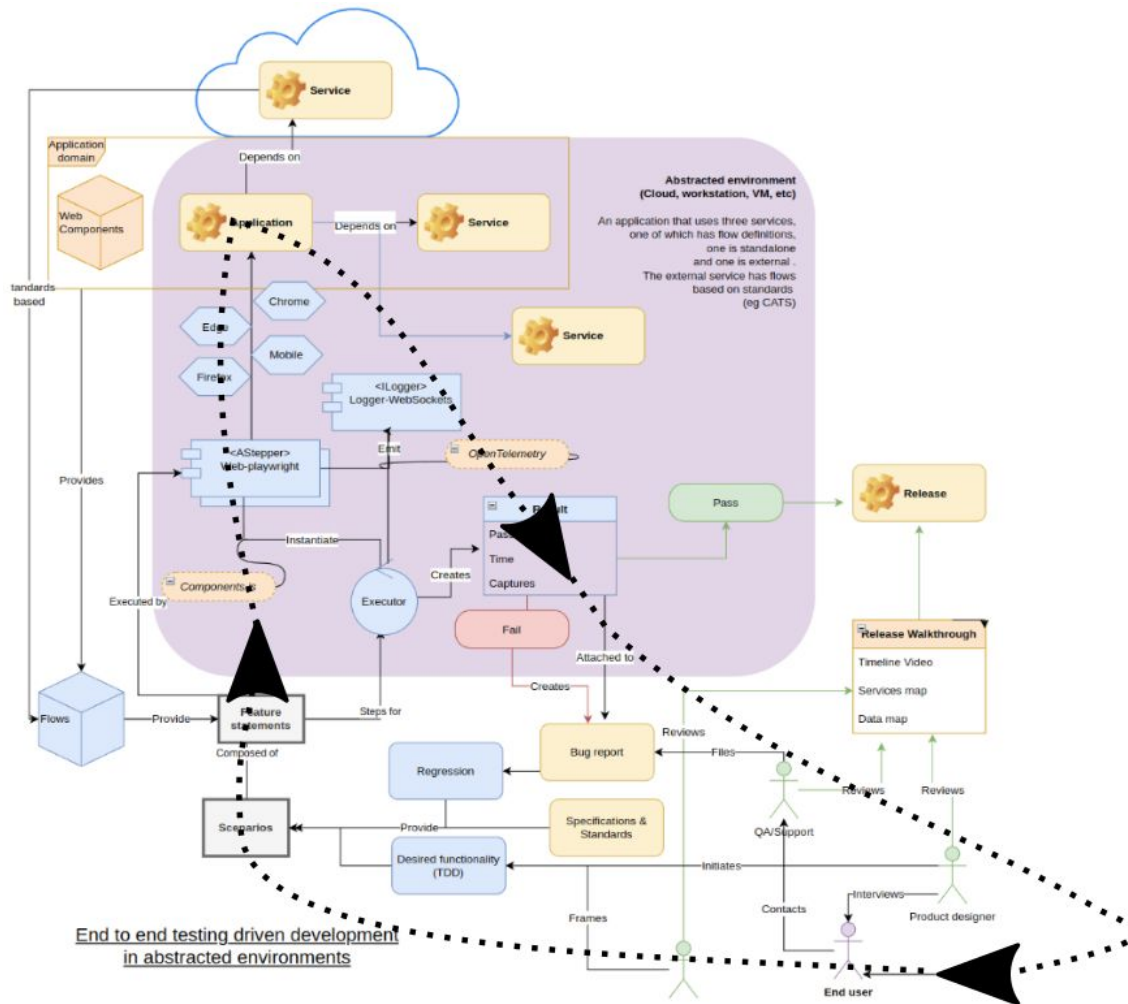


Workflow for specification test development









Agile  
user centred  
iterative  
inclusive  
built on best practices  
heterogeneous  
open source

# From here

- ➡ Add mapping
- Cipher pipeline
- Use OpenTelemetry for messaging
- Improve reviews
- Alerts for unexpected service changes
- "View source" (with versioning) of any statement
- Adopt components.js for component model
- Abstractly automate connection with Azure DevOps
- Improve browser capture
- Development pipeline
- Developer and user ergonomics Editor helper
- High fidelity load testing
- Production pipeline
- Save, resume, branch sessions
- Automate security process and verification
- Specification as test as documentation as data map as application generator (OpenAPI for services & components)