Open Source DocOps

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What is DocOps?

Documentation operations, allowing docs to be created, maintained and published collaboratively and in an efficient manner.

Docs-as-code

DocOps builds on Docs-as-code:

- source control
- text-based markup
- continuous integration
- local tools

Open Source

Open source means freedom.

Open source also means:

- not having to rebuild the same tools over again
- run it where you want, CI, local
- we collaborate to improve our shared tools
- no vendor lock-in

Tool the Docs

Preview changes

All documentation contributors should be able to see what they are doing.

```
Get museum hours
summary: Get museum hours
                                                                                                                                         Get upcoming museum operating hours
operationId: getMuseumHours
                                                                                                                                           Security > MuseumPlaceholderAuth
                                                                                                  > Events
                                                                                                                                           Pennect v
                                                                                                                                           OUERY PARAMETERS
         $ref: '#/components/schemas/GetMuseumHoursResponse
                                                                                                                                                            The starting date to retrieve future operating hours
                                                                                                                                                            from. Defaults to today's date
                                                                                                                                                            Example: startDate=2023-02-23
           $ref: '#/components/examples/GetMuseumHoursResponseExample
                                                                                                                                                             Default: 1
    description: Not found
                                                                                                                                                             The page number to retrieve
                                                                                                                                                            Example: page=2
                                                                                                                                                            integer <= 30
description: Creates a new special event for the museum
                                                                                                                                                            Default: 10
operationId: createSpecialEvent
                                                                                                                                                            The number of days per page
                                                                                                                                           Responses >
       $ref: '#/components/schemas/CreateSpecialEventRequest
         $ref: '#/components/examples/CreateSpecialEventRequestExample
                                                                                                                                              400 Bad request
                                                                                                                                              404 Not found
```

Link checking

Automatically "click" every link and check it is valid.

Check links in source or output format:

- Source markup format (I use mlc)
- An HTML link checker, run after build

Link checking strategies

The internet goes wrong sometimes.

- restrict scope of checks (internal links, changed files)
- weekly check all links for decay or other problems

TIP: Someone else's downtime should never block your build/release.

Validation

Check for syntax errors.

Catches errors that aren't visually obvious.

The machines can help us!

Validation tools

Docs build tools may do this as standard. Or try:

- Markdown: https://github.com/DavidAnson/markdownlint
- ReStructuredText: Sphinx includes this feature
- OpenAPI: https://github.com/Redocly/redocly-cli/

Formatting

Valid is one thing, consistent and readable are another.

Formatters adjust:

- newlines and spacing
- indentation
- line length
- bullet/table syntax

Prose linting

Quality assurance for the written word.

Catch common mistakes with https://vale.sh

- repeated words
- correct case and spelling for product names
- dictionary of your words
- ... and anything else you can think of

Workflows and environments

Make the tools work with your process.

Source control branching

GitHub flow:

- small changes
- each in their own branch
- manageable to review

Continuous integration

Apply the tools to every pull request:

- never miss running any check/test
- build previews to assist reviewers

Maintain documentation quality.

Feedback loops

Opening a pull request is a big feedback loop.

We need small feedback loops:

- all tools available locally
- IDE integration a bonus (but avoid lock-in)
- covered by setup docs

Open Source DocOps

Move fast and don't break anything!

Resources

- https://lornajane.net
- https://redocly.com
- https://github.com/becheran/mlc
- https://github.com/DavidAnson/markdownlint
- https://github.com/Redocly/redocly-cli/
- https://vale.sh/