

Value Propositions



**get rid of typical
hyperlink errors
in html documents**

Core Functions



check for and **report**:

- missing images/resources
- wrong links
- duplicate anchors

suggest corrections

Core Decisions - Good or Bad



- open-source (Github)
- Flexible due to TemplateMethod pattern
- virtually no dependencies
- powerful reporting
- helpful suggestions

Technologies



Programming language:
<https://groovy-lang.org/>

HTML parser:
<https://jsoup.org/>

Execution / Deployment:
via <https://gradle.com/>

Testing based upon
<https://spockframework.org/>

Key Stakeholder



authors

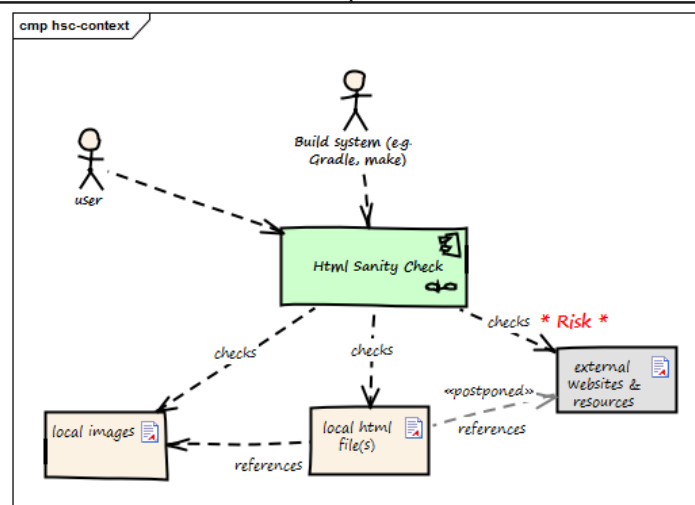
- generating html of their documents
- writing in AsciiDoc, Markdown or similar

Quality Requirements



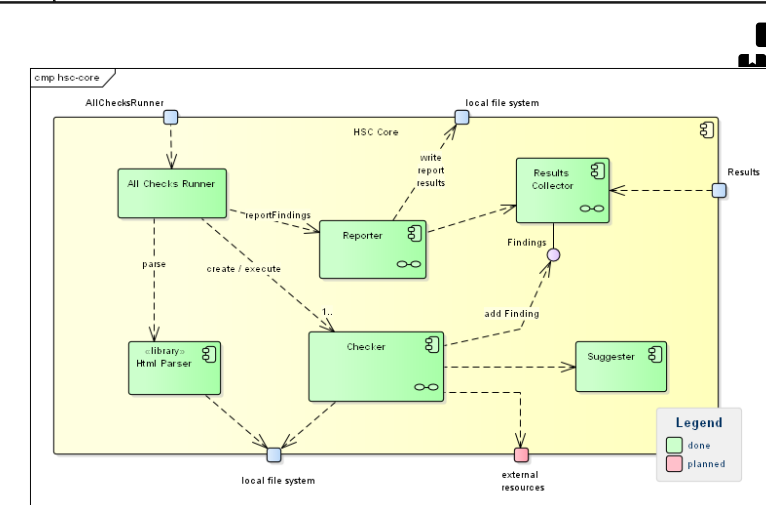
- no source document is ever changed
- all missing links/resources are found
- performance comparable to unit tests (< 1sec)

Business Context



Components / Modules

AllChecksRunner	Coordinates the various (and configurable) types of checks, sends collections of findings to Reporter.
HtmlParser	the JSOUP parser, returns an in-memory representation of the respective HTML file.
Reporter	creates a JUnit-style report in HTML, containing both errors and suggestions
ResultsCollector	Gathers all results (errors and suggestions)
Suggester	Tries to give suggestions what could have been meant, especially for image links (e.g. if missing file is "a.jpg" and "a.png" exists on filesystem)
Checker	coordinates and executes all (configured) checks on the (configured) html file(s). Calls for suggestions in case of errors, reports findings to ResultsCollector



Risk and Missing Information

- community too small to support regular updates
- dependency on gradle hinders adoption
- Some weird dependencies in code
- outdated documentation due to pure-code-commits
- outdated technologies (e.g. Gradle 4)

