

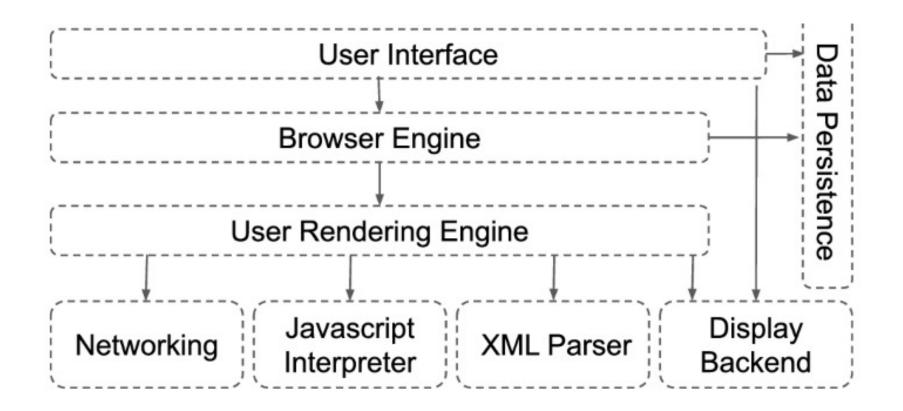
Continuous conformance

Pre-study



Reference architecture

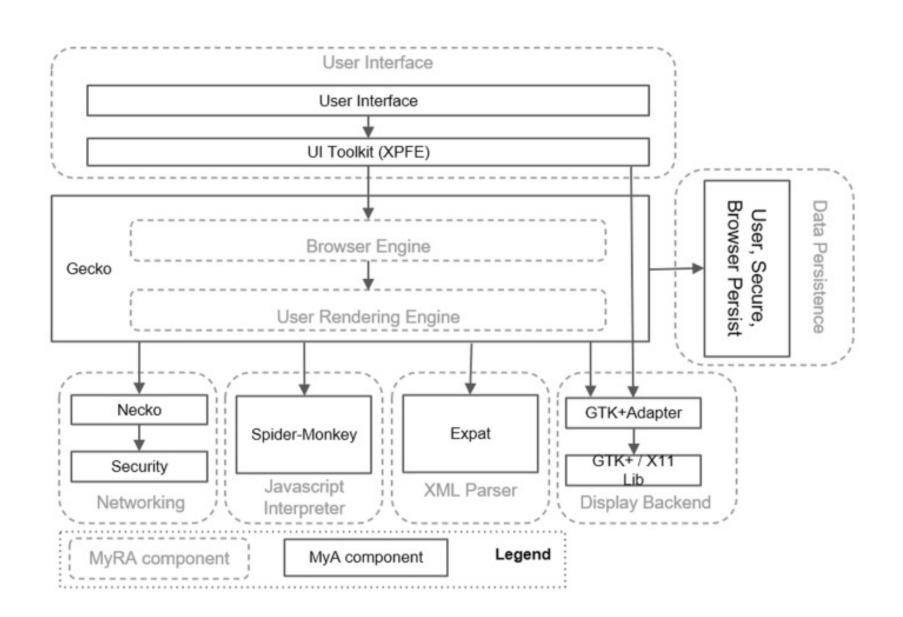
General architecture that is used as a foundation for the design of software architectures within a given context or application domain.





Architecture conformance

Architects have no instruments for ensuring conformance of software architectures to corresponding reference architectures, and they risk making wrong assumptions about the system and its context of use, poor design decisions, and suboptimal design solutions.





Assistive modelling tool

to aid architects in the creation of software architectures by automatically identifying and rectifying misalignment with a designated reference architecture.



Requirements

We identified the following requirements.

Can you prioritize them?

ID	Title	Description	Prioritization
1	Conformance checking	Providing conformance checking	
2	Continuous architecting	Agile-like	
3	Automation	Automatically check consistency and propose restoration strategies	
4	Real-time	Conformance and related information are dysplayed in real-time	
5	Non blocking	The conformance check is non blocking and does not stop the design	
6	Knowledge base	Offers datasets on architectures, styles, etc.	
7	Collaborative	Different stakeholders	
8	Web-based	Doesn't require installation, dependencies resolutions, etc.	
9	Modifiable	Wrt new architectures, styles, etc.	
10	Graphical	Information abour conformance is displayed graphically	



Requirements

We identified the following requirements.

• Would you remove any requirement?

ID	Title	Description	Prioritization
1	Conformance checking	Providing conformance checking	
2	Continuous architecting	Agile-like	
3	Automation	Automatically check consistency and propose restoration strategies	
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Requirements

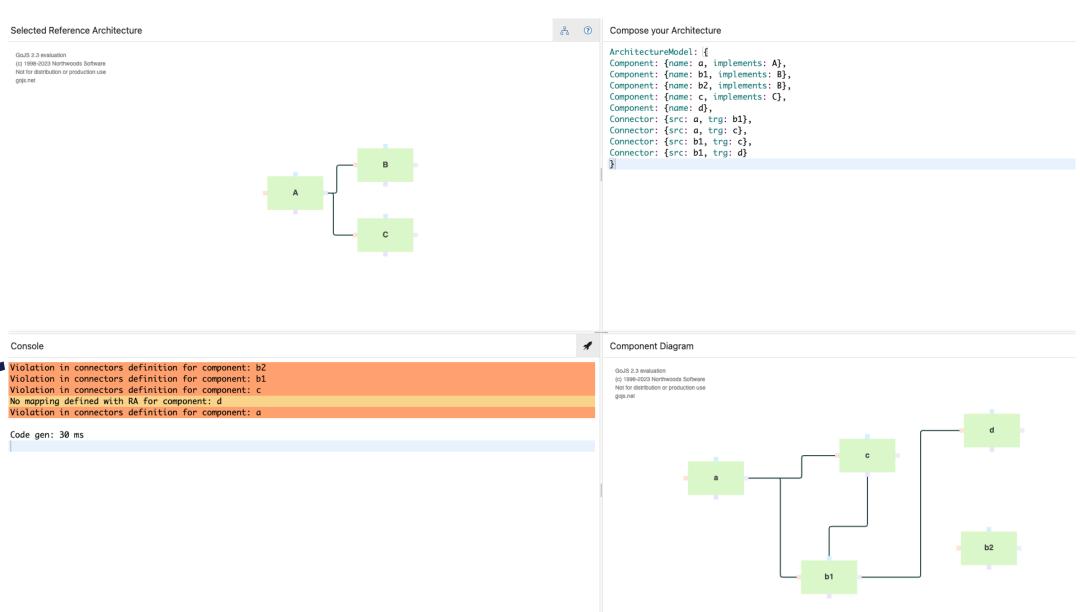
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• Would you add any requirement?

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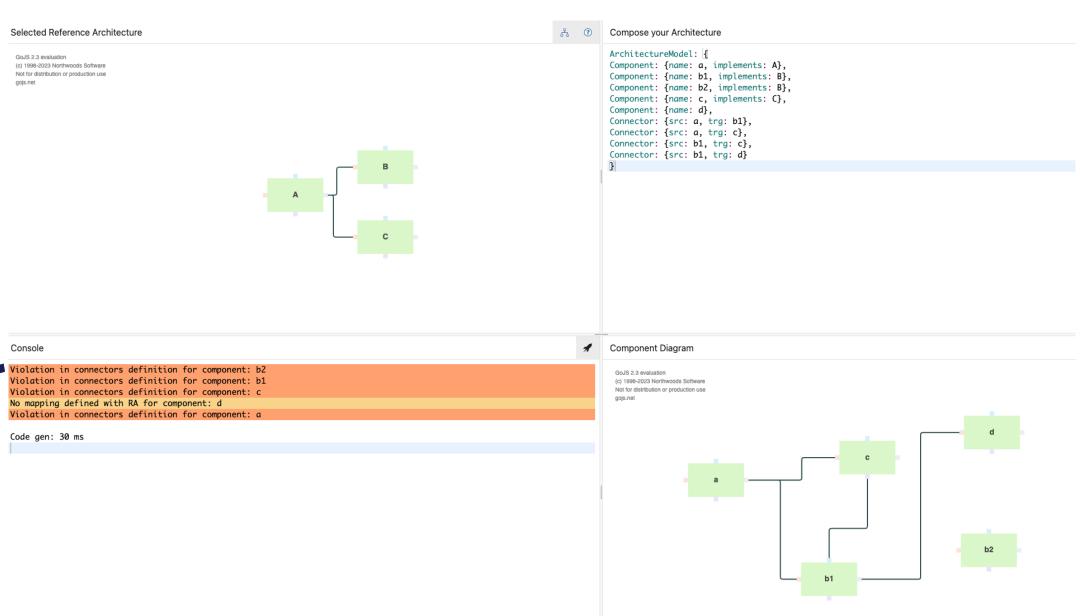


Assistive modelling tool violation v



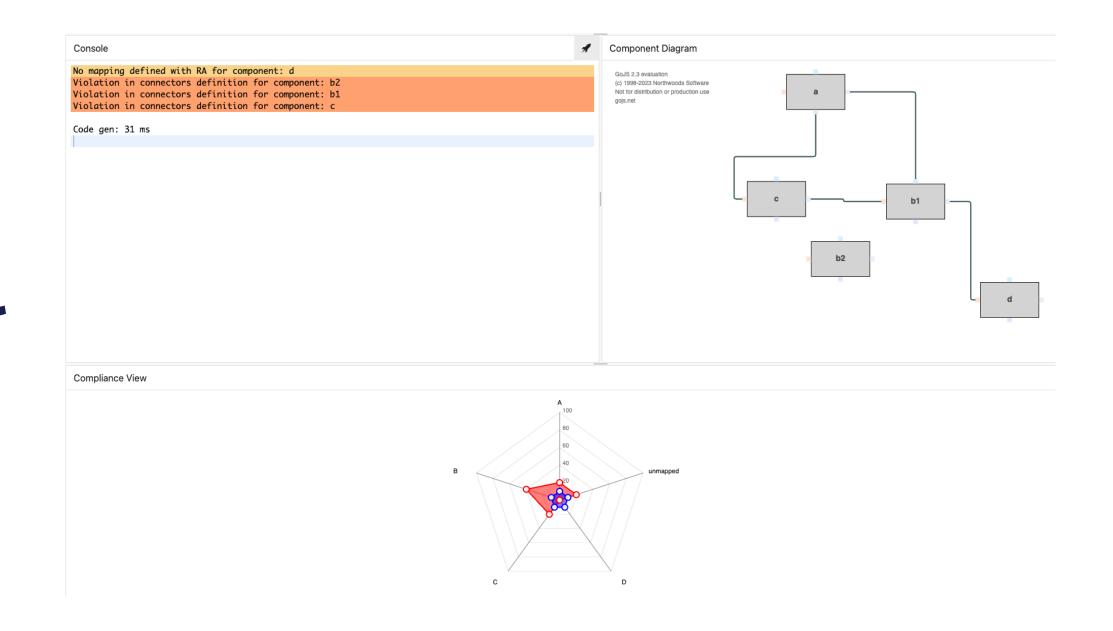


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Assistive modelling tool





Remarks?