Inspection Checklist - Software Architecture Document From Software Architecture Document Guidelines, by Simon Brown, edited based on project scope.

Inspector: Nicholas May (Senior Software Engineer)	I
Thispector. Nicholas May (Geriloi Goltware Engineer)	Comments/Notes
Functional View	CONTINION TO LOS
runctional view	Explicitly states the significant use seems as well as breaks there into groups to
	Explicitly states the significant use cases, as well as breaks them into groups to
	help clarify why they are significant. Mentions the referenced 'Vision Document'
	which helps to understand why the use cases were chosen, but one does not have
Is it clear which features/functions/use cases are significant to	to read that document in order to understand the 'Software Architecture'
the architecture?	document.
It is clear that these have these been used to shape and define	Yes. While it's hard to see this simply from the Functional View section of the
the architecture?	document, it's easy to see the use cases helped influence the overall architecture.
the distinctions.	december, it a coay to coo the doc cacco helped inhabited the avoidin distinctions.
Non-functional View	
Is there a clear understanding of the non-functional	Overall, yes. One item that could be missing is a statement regarding the level of
requirements that the architecture must satisfy?	transaction rates that must be used while still meeting the non-functional reqs.
Are the non-functional requirements quantifiable and testable?	They are all testable.
Have common non-functional requirements been explicitly	Not done in this section, but other sections in the document help answer this
marked as out of scope if they are not needed (e.g. "user	question.
Are any of the non-functional requirements unrealistic? (e.g.	Only the fact that peak and sustained transactional rates were not supplied, which
true 24x7 availability is typically very costly to implement).	could imply this solution works for any level of peak/transactional rates.
Architectural Principles	
Are there any other principles (e.g. other non-functional	
requirements that have not been explicitly requested) that have	No
requirements that have not been explicitly requested, that have	
Architectural Constraints	
Are the constraints well documented and comprehensive?	Yes; however mentioning the use of Open Source code might be worth while.
	Yes, the document clearly states why the particular architecture and software
Is it clear how the constraints affect the architecture?	stack was chosen.
Process View	
	Good high level overview of the architectually significant portion of the process,
Is it clear what the system does from a process perspective?	but it might be useful to tie the web services section with the Jgroups section.
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Are the major flows of information through the system well	No diagrams. A basic view of how data moves through the system and into/out of
understood and documented (e.g. using UML activity	the cache might be usefulsimilar to the comment above. (this might be in the
diagrams)?	Vision document)
Logical View	
Is a logical view of the architecture clearly portrayed?	Yes
Does it show the major components and interfaces?	Yes
	Not described well in this document, but the corresponding Vision document does
Are they described at a high level?	an excellent job at describing them.
Does the logical view show external systems and any other	
dependencies at a high level (low level detail about the	NA
Interface View	
Are the key internal (e.g. databases, messaging systems, etc)	
and external interfaces (e.g. other systems) well specified at a	Exteral interfaces are documented, but not much on interal systems.
and external interfaces (e.g. other systems) well specified at a	Exteral interfaces are documented, but not much on interal systems.
What format are the messages (e.g. plain text or XML defined	Not specified, but would be useful.
Who has ownership of the interfaces?	Unknownnot sure if it is applicable here.
To ab mala my Calactian	
Technology Selection	
le it along why the palonted to shool asing warm about 2	Covers the significant drivers for choosing the technology, but not too clear on
Is it clear why the selected technologies were chosen?	exactly why they were chosen.
If there were options, why were they not chosen?	Doesn't specify any optionsit uses a common tech stack.
Do they all fit in with the constraints outlined previously?	Yes
Are all software and hardware tiers covered?	Covers both software and hardware.
Design View	
Is it well understood how the key use cases will be	Yes
How are the chosen technologies used and combined?	Different diagrams and explanations cover this in good detail.
Are there common patterns across the architecture?	Yes
·	Yes, they are well documented. The use of commong patterns among spring and
If yes, are these well understood and documented?	hibernate are an example.
Are the diagrams (e.g. UML class and sequence) up to date	Yes
Are any common wheels being reinvented? If so, why aren't	
vendor/open source products being used?	No
Is there enough information here to provide the rest of the	
development team with an overview/the intent of how the	Yes, definitely gives a good overview for others to learn from.

Infrastructure View	
	Instead of just an 'ideal architecture diagram', it would probably help to show a
Is there a clear physical architecture?	'actual architecture diagram"
What hardware does this include across all tiers?	The diagram mentioned above could probably show this information.
Does it cater for redundancy, failover and disaster recovery if	Yes, multiple JVMs on multiple, separate machines (i.e. slices).
Security View	
Is there a clear understanding of how security is handled within	
the architecture and how any security requirements have been	Yes.
Authentication.	Discusses current, as well as possible future state, for authentication.
Authorisation.	Yes.
Confidentiality of data between components (e.g. during user	
login, during requests between components, using	
technologies such as web services or messaging, across	Discusses the cases involving cached data, as that is the focus of the project.
Different types of users and their roles.	Yes.
 Network separation using firewalls and DMZs (red, amber, 	Noprobably closer to NA.
Restricted access to resources.	Sufficient
Permissioning of data of a per user/role/etc basis and the	Nothing on modifying permisions, this isn't too important in project scope, but
ability to modify those permissions.	could be mentioned.
Monitoring, Management and Administration View	
Is it clear how the architecture provides the ability for	
operation/support teams to monitor and manage the system?	Yes.
How is this achieved across all tiers of the architecture (e.g.	Yes.
Data View	
Is there a high level understanding of how much storage will be	
What are the archiving strategies?	NA
Are there any regulatory requirements for the long term	No
Likewise for log files and audit trails?	No
Justification of Non-Functional Requirements	
For each of the non-functional requirements, is it explicit how	Yes, unless the item has been descoped or not fully implemented.
In the case of performance and scalability targets, are the test	
cases and results referenced?	No.

Are there any single points of failure?	Database? Not much can be done about that.
What happens if a component fails?	Addresses this from a cache member perspective.
Can you recover from a system failure?	Addresses this from a cache member perspective.
Miles in commercials for contamination of failure O	Addresses this from a cache member perspective. The vision document goes into
Who is responsible for system recovery and failover?	some of this in a bit more detail.