

CLEMSON GAMEDAY QUEUE WARNING SYSTEM REQUIREMENT CHECKLIST

Intended use of this Checklist	In bid to examine the sets of requirements for the Clemson Gameday Queue Warning System, the reviewer might use the following questions to ascertain the adequacy of the Requirement Specification Document. The priority column defined the importance of the checklist with respect to health safety.
---------------------------------------	---

ID	Defect Type	Priority	Items to Examine
Consistency and Clarity			
1	Unverifiable	Medium	Are there measurable acceptance criteria for each functional and nonfunctional system requirement?
2	Ambiguous	Medium	Does each requirement have only one interpretation, and if a term could have multiple meanings, is it defined?
3	Unverifiable	High	Is each requirement verifiable by testing, demonstration, review, or analysis?
4	Inconsistent	High	Is each requirement written in consistent, clear, concise language?
5	Inconsistent	Medium	Are the requirements free of duplication and conflict with other requirements?
6	Inconsistent	Medium	Does the specification agree with all relevant higher level documents?
Traceability			
7	Interface	Medium	Is each requirement traceable to its source (including derived requirements)?
8	Interface	Medium	Is each requirement uniquely and correctly identified?
Completeness and Correctness			
9	Interface	High	Are all external hardware, software, and communication interfaces defined? Are they correct?
10	Interface	High	Have the human interface requirements been

			addressed? Are they correct?
11	Incomplete	Medium	Have all quality attributes (characteristics) been properly specified (i.e. efficiency, flexibility, interoperability, maintainability, portability, reusability, usability, availability)
12	Incomplete	Medium	Have any regulatory, legislative, or standards driven requirements been addressed?
13	Incomplete	High	Are time critical functions identified, and timing criteria specified for them?
14	Incomplete	Medium	Have all data privacy requirements been included?
15	Incomplete	High	Are all safety requirements properly specified?
16	Incomplete	Medium	Are all security requirements properly specified?
17	Incomplete	Medium	Are all reliability, recoverability (business continuity), and performance requirements properly specified?
18	Incomplete	Medium	Are any design or implementation constraints described?
19	Incomplete	Medium	Has full life cycle support been addressed, including maintenance?
20	Incomplete	Medium	Have all derived requirements been included? (those implied by the system or software requirements, generally constraints on development or verification)
21	Incomplete	Medium	Are the hardware and software environments specified?
22	Incomplete	Medium	Are user documentation and training requirements addressed?
23	Incomplete	High	Have all dependencies on other systems been identified? (applications or application interfaces, databases, communications subsystems, networking, etc.)
24	Incomplete	Medium	Does each functional requirement specify input and

			output, as well as function, as appropriate?
25	Incomplete	Medium	Does the specification include all known driver or system needs? Are all the tasks the user wants to perform specified?
26	Incomplete	Low	Are all classes of users described? Are the user characteristics described?
27	Incomplete	Medium	Are all internal cross-references to other requirements correct? [For modifiability, minimize cross-references.]
Special Issues			
28	Other	Medium	Have internationalization issues been adequately addressed?
29	Other	Medium	Are all significant consumers of scarce resources (memory, network bandwidth, processor capacity, etc.) identified, and is their anticipated resource consumption specified?
30	Other	High	Are the time-critical functions identified, and timing criteria specified for them?
31	Other	Medium	Are all requirements actually requirements, not design or implementation solutions?
32	Other	Medium	Is each requirement in scope for the project?
Organization and Structure of the Documentation			
33	Standards	Medium	Have appropriate requirements documentation standards been followed?
34	Unverifiable	Medium	Do the requirements provide an adequate basis for design and system test?
35	Standards	Low	Are individual requirements rated (or ranked), with descriptions of priority provided?
36	Standards	Medium	Are all requirements written at a consistent and appropriate level of detail?
37	Standards	Medium	Are all terms and units of measure defined?
38	Standards	Low	Are all figures, tables, and diagrams labeled and

			referenced?
39	Standards	High	Are all necessary modules covered in the work products.
40	Standards	Medium	Do the requirements provide a general overview of system integration