

School of Science, Computing and Engineering Technologies  
Swinburne University of Technology  
SWE30003 Software Architectures and Design  
Tutorial Week 12  
(Architecture Tactics,  
Design Documentation and Evaluation)

Please form teams of three to four students and discuss the following questions:

1. Discuss briefly three architectural tactics that can be used to address *scalability*.
2. “Architecture documentation is both prescriptive and descriptive.” What does this mean? What are the differences?
3. “The system shall exhibit acceptable performance.” This is an example of a common requirement for a quality attribute. Why is this not an acceptable requirement, and how can it be modified to make it better?
4. In a scenario where a new architect must take over the architectural responsibilities for a project, what documented knowledge, captured by their predecessor, would be beneficial?
5. Reconsider the Bookstore Information System from the Tutorial in Week 10. What kind of architectural solution would you put into place in order to (i) enable staff of the bookstore to use light-weight tablets to assist customers with their inquiries and (ii) enable customers to use their own portable devices to search for books? Please identify two solutions and using suitable criteria discuss the benefits/drawbacks of each solution.

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Any further questions?