



Arab Academy for Science, Technology & Maritime Transport

College of Computing & Information Technology

Course: Principles of Software Architecture (SE393)

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How to achieve three Quality Attributes on Web-based sales order system

Quality attributes: are the non-functional requirements of a system that define its overall quality. Tactic is a design decision that influences the achievement of a quality attribute response. To achieve three Quality Attributes through Tactic in Web-based sales order system (Eshtrely), That I show in performance, security and Scalability.

Performance:

- To achieve performance, we can use caching techniques, such as page caching, fragment caching, and action caching. That we can also use database optimization techniques, such as indexing, query optimization, and database partitioning.

Security:

- To achieve security, we can use SSL and TLS Transport Layer Security (TLS) is the upgraded version of SSL encryption for secure communication between the client and server. That we can also use authentication and authorization techniques to ensure that only authorized users can access the system and any user try to hack or buy our system will add to black list (Blocked).

Scalability:

- To achieve scalability, we can use load balancing techniques to distribute the load across multiple servers. We can also use horizontal scaling by adding more servers to the system.