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 - RESTful Web services
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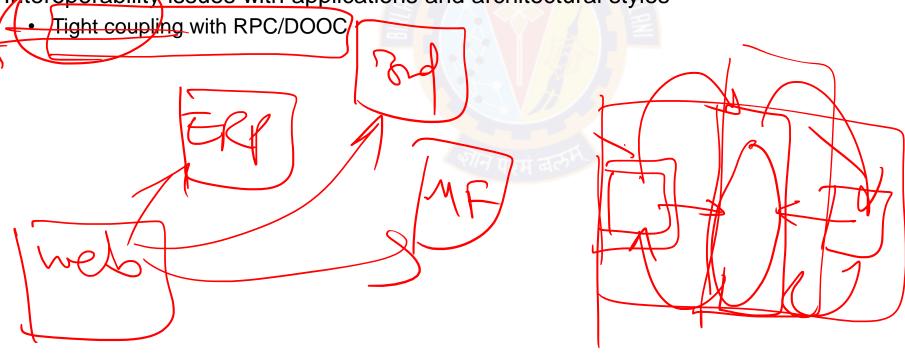
Middleware technologies so far – recap

- Distributed systems and Middleware
- Evolution of Middleware technologies
- Early Middleware Technologies
 - Sockets
 - Remote Procedure Calls
 - Distributed Object Oriented Middleware
 - CORBA
 - Message Oriented Middleware
 - EAI Overview
 - Middleware Security
 - Messaging Systems
 - · Channels and Formats
 - · Routing, Transformations and Endpoints
 - Message Protocols (Apache Camel / Fuse ESB)
 - · Performance and Availability

Limitations of early middleware and message oriented middleware

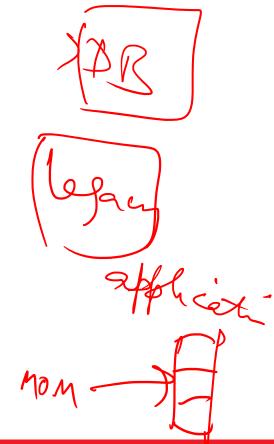
- Performance of legacy components (sockets/RPC) with the explosion of web
- Messaging middleware needs an extra hop in the architecture, adding another point of failure
- Most of web applications are synchronous, while MOM is designed for asynchronous apps primarily

Interoperability issues with applications and architectural styles



Middleware using Web Services - Overview

- Applications and architectures that are deployed in WWW / HTTP
- Middleware provides web interfaces to application services (legacy applications)
- Exposing legacy applications to web topologies by making them web-services
- Promotes interoperability between applications
 - Loose coupling
 - Distributed systems running on HTTP Legacy system 2 Service Service Internet requester provider Service broker



Service Oriented Architecture - Overview

