Introducing Enterprise Applications

> *Provides pointers to students* .

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Something Missing from the Course?

Analysis and Design *of Enterprise Applications* in UML

> *Enterprise applications* .

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Enterprise Applications

- Software application hosted on a server that simultaneously provides services to a *large number of users*, typically *over a computer network*
- Different from software application that run on *local computer*, serving *one user at a time* .

Enterprise Application Example

Digital Trade and Transportation Network

DTTN

- E-platform for logistics and shipment
- *One stop* for supply-chain management .

DTTN Logistics Service Providers

DTTN Shippers

DTTN Connected Shipment Carriers

DTTN Connected Airlines

Challenges in Analysis and Design

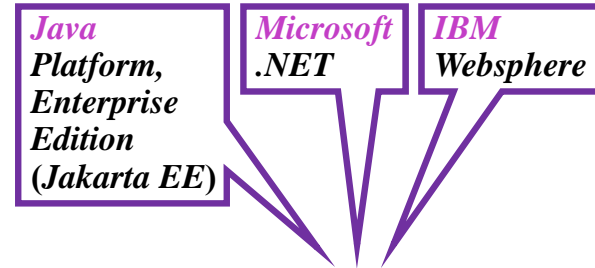- Too many ***user scenarios*** and ***use cases***
- Too many ***design*** considerations

Low cost	Competitive, short time to market	Security, reliability, usability, performance	Flexible, modifiable

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Challenges in Analysis and Design

- Too many device-dependent *implementation* platforms

Java Platform, Enterprise Edition (Jakarta EE)	Microsoft .NET	IBM Websphere

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Multi-Tier Distributed Architecture
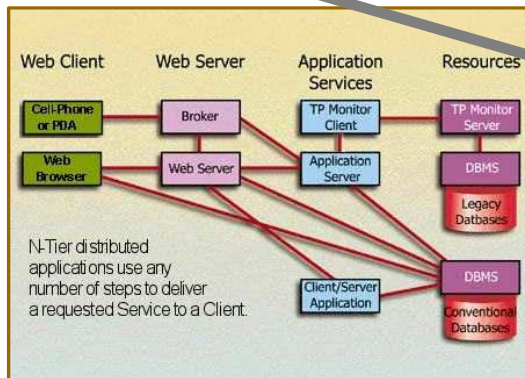
- ***Extended* concept of boundary, control, and entity classes**
- ***More easily said than done!*** ☹