MA-INF 3231- Seminar EIS

Enterprise Information Systems Architecture—Analysis and Evaluation

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Why is it relevant?

- Numerous software architecture proposals are available to industrial area of EIS
- It would be a good idea to **evaluate** those s/w architecture before deploy it in real time scenario.
- This evaluation of those software architecture can offer concrete insights into EIS design

Point of interest - Mine

- Well fit to my industrial experience and area of my study interest.
- •I find the analysis of EIS software architecture, it's design and **evaluation methodology** very pragmatic and as well as fascinating.

Point of interest - Organization

- EIS software architecture mush support key business drives, such as quality attributes or **non-functional requirements** (NFRs) e.g. extensibility, fault tolerance.
- Flexibility and real-time performance are always conflicted, hence key NFRs need to let go or minimize.
- Among many proposed software architecture over the years only fewer methods to evaluate those.
- So, it's very important to evaluate the strength and weakness of a proposed software architecture. So that engineers got the proper understanding which EIS solution they need to deploy.

Objectives

- Study about Types of Software Architecture related to EIS
- Get to know with various classification, comparisons and indentifying the non functional requirements.
- Key understanding of the major NFRs in EIS, which referred as
 - Performance
 - Integrity
 - Persistence

Outcomes

- •Factory *automations* are now a days **fully driven by** information technology but the s/w architecture of EIS is **still inadequate** to deal with the automation.
- •This study shows an **empirical evaluation** to show the insufficiently of addressing NFRs, on two selected architecture
 - Package-based architecture (PBA)
 - Service-oriented architecture (SOA)

Thanks for you attention.....

