. Software architecture is the set of structures needed to reason about the system, which
comprises software elements, relations among them, and properties of both.
. Software architecture software design
· Architecture details is the details that you include in your architecture model to reason failures
. Design details is the full design of the system includes other details necessary to build the
ayatan, but not needed to reason failures
· Architecture is design, but not all design is ordritecture
· Architecture consists of architecture design decisions, and all others are non-architectural
· Architects pay more attention to qualities that arise from architecture choices
· Because < quality attribute 1 > is more important < quality attribute 2 > for this system,
we choose < technical (design/anchitecture) option >, accepting < drawback>
· problem -> Eystem decign -> existing system
· System analysis (requirements model):
(2) Uou functional requirements and constaints (3) deject model (nounce)
(2) Use case model (verlos) (4) Sequence diagram
· System design:
(1) Decign goals (derived from non-function requirements)
(2) Software architecture (3) boundary use case
· System design (eight issues):
1. Identify design goals [non functional requirements]
2. Subsystem decomposition [functional model] _ coherence & compling
3. Identify concurrency [Dynamic model sequence diagram] _ parallelism
4. Hordware / Software mapping [object model class diagram] _ Buy vs Build
5. Persistent data management [object model/class diagram] _ install the ene on Nowmany
6. Global resource handling [Dynamic model (sequence diagram] _ access control
7. Software control [Dynamic model requence diagram]
8. Boundary conditions [functional model]
. Stakeholders have different design goals:
Enduser - developer: portability + good do cumentation
■ Enduser - client (customer): Runtime & efficiency
Enduser - client (customer) - developer: Reliability

· Typical design trade off:		→ > = —	composition -D aggregation
- functionality 1 usal	es de .	>	implements
dore 1 teos =	ustness?		between compared
-> efficiency T par		~~~~>	dependency
-> Rapid development ? Ju			3. Sportsatt J
· System devign: analysis v			1.0
· Subsystem provide service . object chases subs	odule)	1	
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- functional requirements.			
. During system design, so			
. During object design, ou		stined meaning of obsiguo	VZ
. APIs are defined during im			
. Coherence measure depen			
 Coupling measures depend 	iench amond supelize	wS	
		Contract to the contract of th	
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