Day 10 notes – Monday, Feb 15

Starting with Slide 4.63

http://www.cs.rug.nl/~bosch
University of Groningen -

http://www.iturls.com/English/SoftwareEngineering/SE_PD.asp

e.g CNSE: Component-Based Software Engineering: 12th International... Google Books Result

http://pleuma.cc.gatech.edu/aristotle/research.php

Moving on to Chapter 5 – Designing the Architecture
Open Chapter 5 slides.

(5.13) 1st level of decomposition, 2nd level, etc...

(5.15) Make sure your functions are mapped to the system requirements. Ascertain you have a complete functional specification. (see slide 5.10)

(5.16) google: “feature oriented software design” what is a feature
See the 1st sentence of the introduction.

(5.23) google: “component based software engineering”
hit #2 = 12th International Book on Component-Based Software Engineering

Questions for our projects...
What is the documentation that you're going to review?
How will you model it?
How will you form the decomposition view?

(5.32) What is design method good for? When do you choose one over the other?

(5.33) What needs streams to work. “OSI” - Open System Interconnection model.
Data goes through transformations... Decompose in one direction, put it back together in the other.

(5.35) MVC – Model-View-Controller
This is 3 tiers (the Client Presentation is included in the tiers). Presentation tier, Logic tier, Data tier.

(5.38) – Brief mention of Napster.
Components interact by broadcasting and reacting to events = Concurrent.

**Pub/Sub**

1  2  3  4

How do they know about each other?

- A central repository / directory / register (listener) / callback (SERVICES)
- Bus / Broker / Point-to-point

What does each # register? Its name & services that it provides.

“Broker” - An intermediate object between publisher & subscriber. Provides services.

Handouts: [http://www.sei.cmu.edu/architecture/](http://www.sei.cmu.edu/architecture/)


**Generalizing a Model of Software Architecture Design from Five Industrial Approaches**

Read this by Wednesday and work on System Requirements.