CSE 8313
Readings for Session 3

Exam 2
You may bring a 5x7 index card with notes to the exam.

There will no surprises. The exam will be based on the following readings. After each reading, you will find the questions that will appear on the exam.

**Book: Design Patterns Explained**
Ch 5. Architecture and Patterns
Ch 18. The Observer Pattern
Ch 7. The Adapter Pattern

**There will be a question of the form:**
Given a simple design where two classes have a aggregation relation, refactor the design by removing the aggregation links and use observer/observable for the communication.

**There will be a question of the form:**
Given two classes A and B, set things up so that A and B can communicate by using the Adapter pattern.

**Book: XML in a Nutshell.**
Chap 2. XML Fundamentals

**Question:**
Given an XML document, be able to identify: elements, attributes, entity references, coments, CDATA and processing instructions.

**Book: Service Oriented Architecture.**
Chap 2. Intro to XML
Chap 3. Intro to Web Services

**Question:**
Be able to write a short descriptive paragraph about each of the following:
- DTDs
- XSD
- XSLT
- XQuery
Be able to write a short descriptive paragraph about each of the following:

- SOA
- SWDL
- SOAP
- UDDI

Web Reading.

Read Eric Raymond’s essay: The Cathedral and the Bazaar.

Where as Raymond says:

I anatomize a successful open-source project, fetchmail, that was run as a deliberate test of some surprising theories about software engineering suggested by the history of Linux. I discuss these theories in terms of two fundamentally different development styles, the ``cathedral'' model of most of the commercial world versus the ``bazaar'' model of the Linux world. I show that these models derive from opposing assumptions about the nature of the software-debugging task. I then make a sustained argument from the Linux experience for the proposition that ``Given enough eyeballs, all bugs are shallow'', suggest productive analogies with other self-correcting systems of selfish agents, and conclude with some exploration of the implications of this insight for the future of software.

The article may be found (among other places) at:

For the exam be able to give a brief synopsis of this influential work.