CS 446 Tutorial

Software Architecture Document

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Goals of this tutorial

• Make sure you know the requirements of deliverable #4

• “How to get better grades?”

• Examples of architecture & design
ON A FRIDAY AFTERNOON

4% OF PEOPLE WORK

96% PRETEND TO WORK
Overview

• Due: 0800, Nov. 17th

• Naming scheme for your upload files
Recommended Document Structure

• Abstract
• Introduction
• Architecture
  – Goals of choosing this architecture
  – Major components and integrations
• Detailed design
• Diagrams
  – Prefer UML diagrams
  – Right level of abstraction
Diagrams

• Component diagram
• State diagram
• Sequence diagram
• Class diagrams
How to get better grades?

• TAs are looking for:
  – Evidence of a well envisioned and designed software project
  – Proofs of knowledge learnt from this course
    • Reasons for choosing your detailed design
    • Reasons for not choosing other design options
    • Defend your choice using scenarios
  – Clear illustration of your system design
  – Be concise!
Example of architecture design

Class enrollment system for UW students
Server side
Discussion

• What architectural styles have they used?

• What scenarios can we use to illustrate and validate this design?

• Any alternative options for the overall design?
Summary

• Deliverable #4: due on Nov. 17th
  – Detailed system architecture
  – Design on class level
  – UML Diagrams

• Keep in mind:
  – We are looking for evidence showing your skills (hopefully inspired by this course)!
  – Be concise!