CS 446 Tutorial

Software Architecture Document

Wei Wang

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**
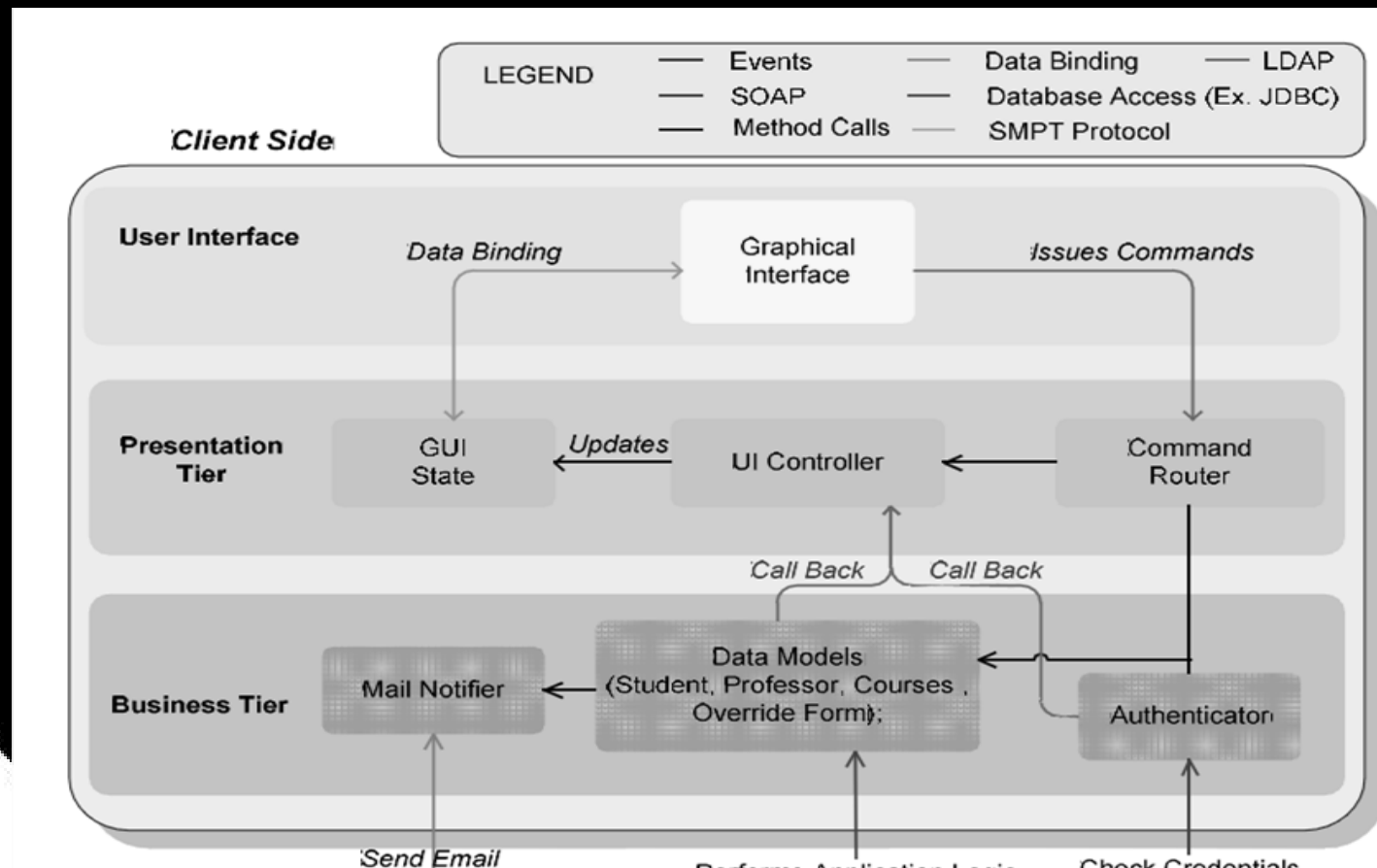 - **Right level of abstraction**

Diagrams

- **Component diagram**

- **State diagram**

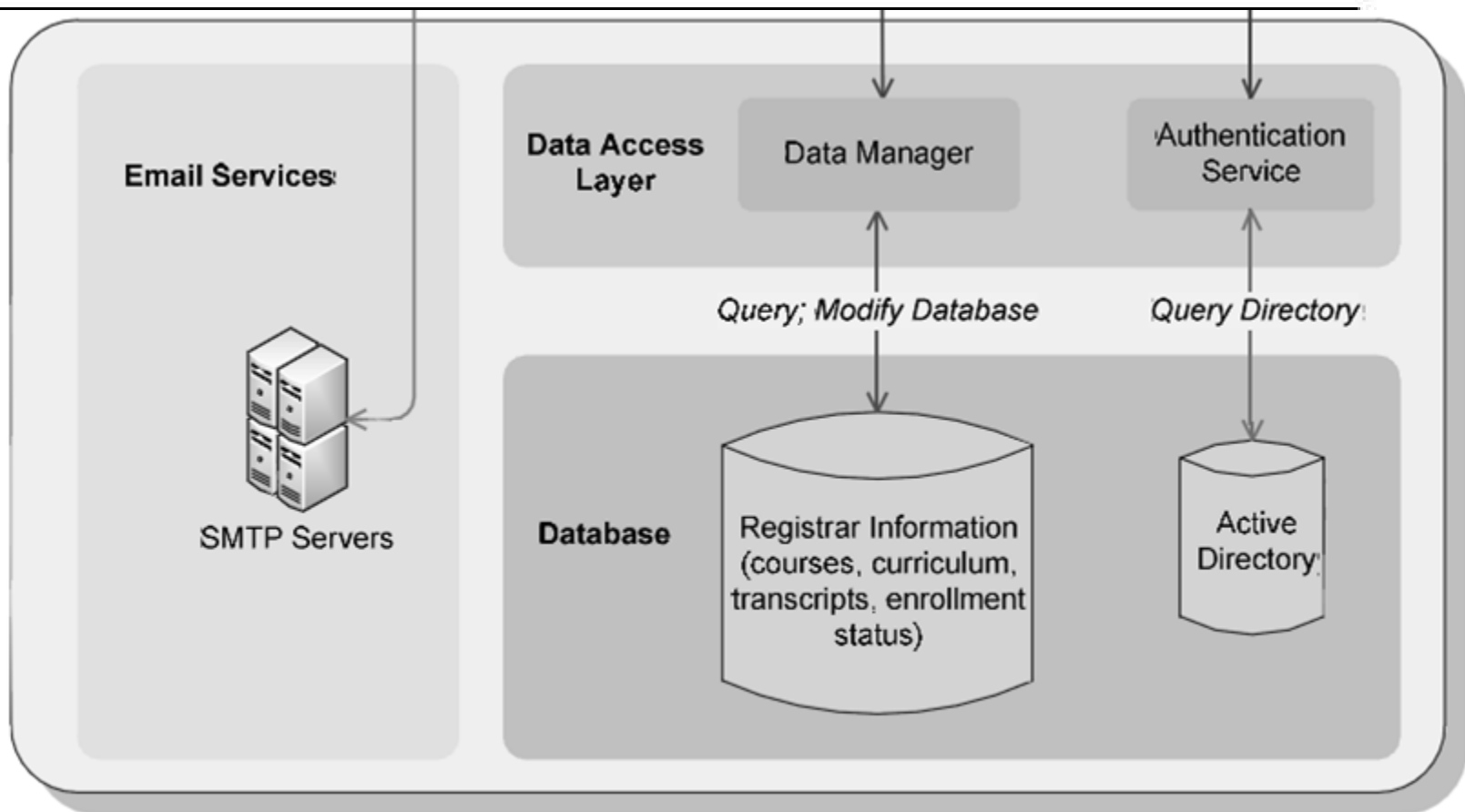- **Sequence diagram**

- **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!**