Lesson 14: Problem Analysis and Use Cases

CS 393: Database Systems

# Lesson Overview

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| **Topic** | **Timing** | **Key Ideas** |
| Review | ~5 minutes | Course overview (where we’ve been, where we’re going) |
| Problem Statements | ~10 minutes | How to create a problem statement for a business |
| Problem Statement ICE | ~7 minutes | Students read situations and create a problem statement |
| Use Cases | ~10 minutes | Use cases, actors, relationships, extends, includes, use case diagrams |
| Use Case ICE | ~25 minutes | Create use case diagrams from situations, discuss as a class |
| Wrap-up | ~5 minutes | Discuss how use cases are used in the real world |

## Required Readings

* DS 16.1, 16.2
* [Use Case Diagram - Unified Modeling Language (UML) - GeeksforGeeks](https://www.geeksforgeeks.org/use-case-diagram/)

## Supplementary Reading

* [System Use Cases: An Agile Introduction](https://agilemodeling.com/artifacts/systemUseCase.htm)
* [How To describe Use cases? | T4Tutorials.com](https://t4tutorials.com/how-to-describe-use-cases/)

# Lesson Objectives & Assessment

* Create problem statements to outline a business’s priorities
* Document use cases to model users’ interactions with the system

# Lesson Plan

## Timeline

## Comments