Project Overview

• clUML is a UML editor for the browser
• Built for the CSE 335 website
• Replaces Visual Paradigm
• Add support for object diagrams
• Integrate UI with CourseLib back end
  ▪ Assignments and quizzes
  ▪ Demonstrations
System Architecture

Front end (browser)
- HTML
- CSS
- JavaScript
- clUML

Back end (server)
- Apache
- MySQL Database
- CourseLib
  - Core
  - clUML Support
Class Diagram With Packages
Object Diagram Creation

https://facweb.cse.msu.edu/cbowen/cse335/design4/pool1.obj

- Pool
  - address = Ash Street
  - capacity =

- SingleOrder
  - description = Open
  - when = 6/1/2023
  - attrName = value

- RecurrentOrder
  - description = Chemical Check
  - frequency = 7
  - duration = 0.5

- Pool
  - address = Willow Street
  - capacity =

- RecurrentOrder
  - description = Filter Backwash
  - frequency = 14
  - lastVisit = 5/14/2023
  - duration = 1

- PoolService
  - address =
  - name = Bob

- Customer
Redundancy Checker
New Tab
What’s left to do?

• Grade UML diagrams submitted in quizzes
• Show diagrams inline, without editing tools
• UML diagrams persist through pages on a Step assignment
• Test on all browsers and touch screens
• Stretch goals
  ▪ Collaborative UML designs
  ▪ Split Screen (two diagrams open simultaneously)
Questions?