COMP 504: Graduate Object-Oriented Programming and Design

Lecture 18: Moving Ball and Inner Wall Interactions cont.

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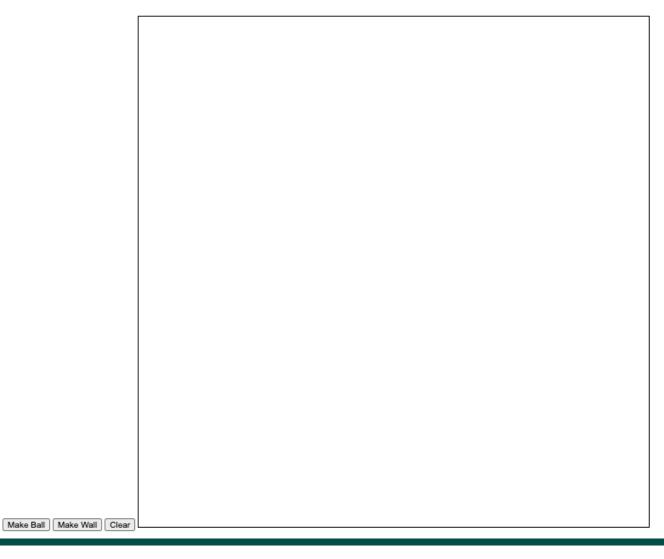
https://www.clear.rice.edu/comp504

Announcements & Reminders

Hw #3 due Wednesday, Oct. 7th at 11:59pm

Moving Ball and Inner Wall Interactions

[Make Ball][Make Wall][Clear]

Design Decisions

What design decisions did you need to make for in-class exercise 6?

Group Projects

- Homework assignments #5 and #6 will be done in groups

- Groups will be comprised of 5-6 people
  - 1 project team lead
  - 1 tech lead
  - 1 documentation lead
  - multiple developers

- Each person in the group will be assigned a role
  - Must keep role during project, may switch role for next project

Project Team Lead Role

- Oversees project completion process

- Sets up team meetings

- Ensures that project tasks are completed on time

- Provides guidance and direction for each team member

- Fills in where needed most

Tech Lead Role

- Responsible for creating and maintaining the architecture structure
  - Interfaces/abstract classes
  - Communication between controller, model, view, adapter(s)
  - UML diagram

- Communicates with Documentation Lead to create/maintain document architecture specification.

- Communicates with Developers to ensure interfaces/abstract classes are adequate to solve technical problems
  - Deadline for interfaces/abstract classes

Documentation Lead Role

- Ensures that all code (classes, interfaces, methods) are well documented (no checkstyle errors)

- Creates a project specification document that outlines
  - Contains project description
  - UML diagrams
  - Explanation for interfaces, use cases
  - Design decisions

- Creates presentation material (design review, final presentation)
  - Ensures required information is present (e.g. code coverage)

Developer Role

- Implements application functionality based on project specification using defined interfaces/abstract classes

- Helps tech lead understand interface/abstract class needs

- Writes unit tests and ensures code coverage goals are met

- Finds and fixes known bugs

Worksheet #12: Group Team Member Role

- Homework assignments #5 and #6 will be group projects.

- Each team will have:
  - 1 project team lead
  - 1 tech lead
  - 1 documentation lead
  - At least 2 developers

- Please indicate in Canvas what role you would like? You may indicate a first and second choice.