

Small Group Activity - Small Group Peer Review of the design

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Activity Kind

Small group activity

Purpose

The purpose of this activity is to level the perspective of the various small groups to help each other improve their design and their code

Pre-requisite

Students are expected to have participated in:

- Small Group Activity - Design how to process values with units

Tasking

Working as small teams, teams are asked to peer review the proposed design. The mentors come up with a circular peer review scheme and the peer reviews take place (as much as possible) in parallel. The team that was a peer reviewer in the last iteration will have their solution peer reviewed in the next. There may need to be three rounds of peer reviews. A review needs to be limited to 25 minutes and no more.

The focus on the peer review will be the UML Diagrams and they flow to the Java code. This is the time to be honest. Are there real design documents available to explain the design to someone else? Don't accept "hand waving" explanations. Ask the awkward question: "If management informed you that you would be leaving for a key overseas assignment tomorrow morning and a more junior programmer would be assigned to complete the implementation of your design, are your design documents ready for this lesser developer to finish your work?" Ask to see those documents and have the author explain how the documents capture and communicate the key aspects of the design.

Deliverable

Students are responsible for producing and posting their notes and their code in their ENB as evidence that they performed this task as required.

Submission

Each student must produce and submit your ENB for the day.

Peer Review Items

1. Is it clear how the program will determine if the units for an operation are "proper"?
 - a. If so,
 - i. How will the result be computed?
 - ii. How will the result unit be determined?
 - b. If not, how will the program determine if the units for an operation are "compatible"?
 - i. If so,
 1. How will the normalization of operand1 take place?
 2. How will the normalization of operand2 take place?
 3. How will the results be computed?
 4. How will the result unit be determined?
 - ii. If not, an appropriate error message must be given
2. Is the information provided adequate to guide implementation?
 - a. If so, explain why
 - b. If not, explain the issue and give an example.