

Peer-graded Assignment: Static Analysis

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Week 3 - Static Analysis

by Anonymous Learner  
March 23, 2022

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PROMPT	RUBRIC
<p>Select a well-established static analysis tool which has online documentation of its capabilities. Select a feature of the tool. Briefly explain the feature's purpose, how to use it, and why it is important to have this analysis capability.</p> <p>Static analysis tool - PMD 6.43.0</p> <p>1. Feature 1 - detecting unmatched brackets</p> <p>This feature detect unmatched brackets for if/else blocks, for loops, while loops. It is important to have this feature because finding a missing bracket can be really difficult in a large amount of code.</p>	<p>Purpose is present</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>Purpose is clear</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>Purpose is reasonable</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>Purpose is well written (grammar/spelling)</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>How to use it is present</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>How to use it is clear</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>How to use it is reasonable</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>How to use it is well written</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>Importance discussion is present</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>Importance discussion is clear</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>Importance discussion is reasonable</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>Importance discussion is well written</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p>

PROMPT	RUBRIC
<p>Use the same static analysis tool selected for the previous prompt. Select another feature of the tool. Briefly explain this feature's purpose, how to use it, and why it is important to have this analysis capability.</p> <p>2. Feature 2 - detecting if a variable name is too short and unclear</p> <p>Lazy variable naming, such as using only a letter 'x' when not appropriate can lead to difficult debugging and confusion for others who read the code.</p>	<p>Purpose is present</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>Purpose is clear</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>Purpose is reasonable</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>Purpose is well written (grammar/spelling)</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>How to use it is present</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>How to use it is clear</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>How to use it is reasonable</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>How to use it is well written</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>Importance discussion is present</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>Importance discussion is clear</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>Importance discussion is reasonable</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p> <p>Importance discussion is well written</p> <p><input type="radio"/> 0 pts No</p> <p><input checked="" type="radio"/> 1 pt Yes</p>

OVERALL ASSIGNMENT RUBRIC

Is the tool documentation online and easily accessible?

☐ 0 pts  
No

☒ 20 pts  
Yes

Comments

Comments left for the learner are visible only to that learner and the person who left the comment.

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