

Knowledge Assessment

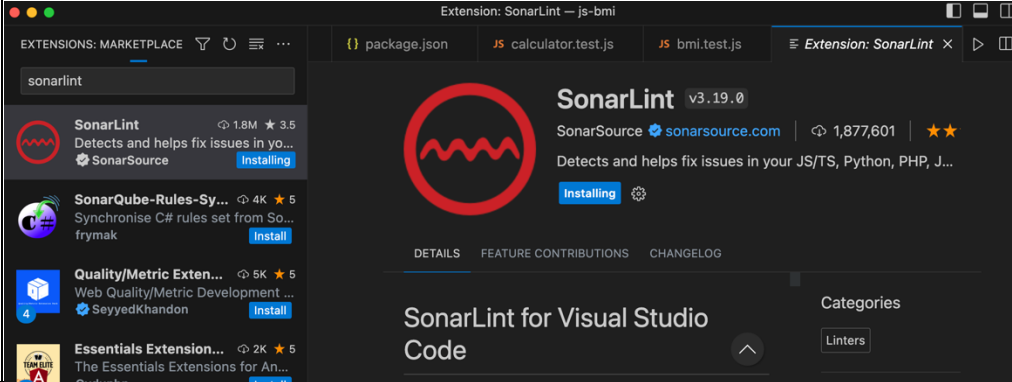
This is a Practical knowledge Assessment. It consists of several open book instructions.

Take home questions

Description:

*Know how to design tests using several testing techniques on the BMI Calculator
Implement the tests, execute and include them as part of the test suite
Know how to use Static analysis tools (SonarQube) in the existing code, analyse the error and fix them*

Question.	Details of Question
1.	Load the vsproj from Week 3 with the BMI javascript
2.	<p>There is a requirement change from Product on the BMI calculator specifically to the minimum and maximum of weight and height. In bmi.test.js, line 9-11</p> <pre>weight.min = 1; weight.max = 635; heightu.innerHTML = "CM"; height.min = 54; height.max = 272;</pre> <p>Change weight min = 50; weight max = 200; Height min = 70; height max = 350</p> <p>Review the existing tests developed in Week 4 and determine</p> <ol style="list-style-type: none"> 1. If the tests are still passing or failing 2. In the step 1 during the review of the existing tests, walkthrough the debug section in the article https://gist.github.com/jherax/231b2dda7f9cce20e13f4590594fdb70 3. Analyse the code and elaborate the reason where there is a change of test results 4. Modify the tests to make them passes <p>Note: Execute “npm test” on the command line and verify the unit tests could be executed without any errors</p> <p>Reference: https://learn.microsoft.com/en-us/visualstudio/javascript/debug-nodejs?view=vs-2022</p>
3.	Install the SonarQube extension in the VSCode market place extension

	
4.	Review the existing test files which has problems. Hint: View -> Problems
5.	Fix them and recompile the file
6.	Verify you are able to <ol style="list-style-type: none">perform the test execution of on the modified tests in #2 for the respective test design techniquescompile bmi.test.js filesee static analysis issuesresolve and recompile them successfully