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CS-320 Software Test Automation & QA

Module Four Journal

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My testing approach for the module three assignment could have been more technically sound. Looking back at the code, I notice that I never set logic to check if the ID was not greater than 10. I did set my ID to a final String which kept it from being updatable. I did not set a numeric limit on any of my following fields as well.

Reflecting on the things I missed, I would certainly return to my ContactService classes and include the numeric limitations, along with the unique ID check to ensure I cannot add duplicate IDs in the map. Another thing I missed was checking if any of the fields were null.

For my module four assignment, I had better coverage for my testing criteria.

public Task(String taskId, String name, String description) {  
 if (taskId == *null* || taskId.isEmpty() || taskId.length() > *10*) {  
 throw new IllegalArgumentException("Task ID cannot not be null, empty, or exceed 10 characters");  
 }  
 if (name == *null* || name.isEmpty() || name.length() > *20*) {  
 throw new IllegalArgumentException("Name cannot not be null, empty, or exceed 20 characters");  
 }  
 if (description == *null* || description.isEmpty() || description.length() > *50*) {  
 throw new IllegalArgumentException("Description cannot not be null, empty, or exceed 50 characters");  
 }  
  
 this.taskId = taskId;  
 this.name = name;  
 this.description = description;  
}

In the snippet above, you can see that I check each field to the respective requirements such as length, null, and empty. Comparing module four to the previous module three, my test cases have increased in technicality by completing the requirements fully, adding exception throws, and checking each field to ensure proper function.

The code I wrote was efficient because it’s organized properly, there aren’t any blocks that are redundant, and if another developer was to review it, they could easily understand the process because of accurate comments. In the code provided, we see that each if statement covers the required parameters in one condition and is documented to be easy to understand what is required.