Running Case (PDQ)

Part 5: Project Quality

The PDQ Factory Locator Subsystem Project team is working hard to ensure they meet expectations. The team has a detailed scope statement, but you want to make sure you are not forgetting requirements that might affect how people view the quality of the project. You know that the project's sponsor and other key stakeholders are most concerned with getting other subsystems to use the factory locator subsystem.

Tasks

1. Develop a list of quality standards or requirements related to meeting the stakeholder expectations described in the running case. Provide a brief description of each requirement. For example, two requirements related to the new website might be that users can read the content in several different languages and that users provide good ratings for the online video training.
   - The Factory Locator subsystem should respond to other subsystem events within two seconds.
   - A user-friendly display message should be sent to other dependent subsystems incase the system malfunctions.
   - Web Servers must be placed in strategic locations to serve the sites and increase throughput and reduce delays.
   - Transactions performed on the Mongo database should be atomic.
   - Error checks. Proper error checking must be done when receiving other subsystems inputs.
   - The factory locator subsystem should return the list of all factories when requested from other subsystems.
   - The factory locator subsystem should choose the best new factory location.
   - The closest factory to a customer order coordinates must be returned when requested from other subsystems.

2. Based on the list you created for Task 1, determine how you will measure progress on meeting the requirements.

   - Unit, Integration and Systems Tests
   - Continuous Integration and Delivery Pipelines along with User Acceptance testing.
   - Constant communication with stakeholders of the other subsystems and top management.