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CSD380 Module 4.1 Discussion

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Behavior Driven Development

Hello,

For the Module 4 discussion I will be covering the main topic of Behavior Driven Development (BDD) and its set of subtopics. BDD is an agile development method that is a refined process building upon the Test-Driven Development (TDD). It applies the “Five Why’s” principle to user stories, so outcomes are related to the business purpose of the build. It focuses on behaviors that directly affect business outcomes to prevent waste focusing on other items. It lists behaviors in one note to be accessed by testers and developers to help with communication. Applies all techniques from the top down so that it remains cheaper than TDD (AgileAlliance).

BDD is used to ensure development matched business goals and helps clarify requirements and are written in the Given-When-Then format. Another reason BDD is used is because tests are written so non-technical staff can understand it so they can work together, and it is a technique that focuses on a software applications behavior (GeeksforGeeks(a)).

Because BDD focuses on an applications behavior, it may be preferred over TDD because of its outlook based on the users perspective rather than technical implementation allowing it to meet user needs and reduce miscommunication between team members (GeeksforGeeks(b)).

TDD seems like it is too much for building out of the gate unless a team is cranking out similar products over and over, while BDD can be implemented on any project to make sure clients/user needs are satisfied.

Thank you for your time,

Jeremiah K.

References:

AgileAlliance (2023, October 18). What is BDD (Behavior Driven Development)? | Agile Alliance. Agile Alliance |. <https://www.agilealliance.org/glossary/bdd/>

GeeksforGeeks(a). (2024, June 17). What is Behavior-Driven Development (BDD)? GeeksforGeeks. <https://www.geeksforgeeks.org/behavioral-driven-development-bdd-in-software-engineering/#>

GeeksforGeeks(b). (2024b, July 12). Difference between BDD vs TDD in Software Engineering. GeeksforGeeks. <https://www.geeksforgeeks.org/difference-between-bdd-vs-tdd-in-software-engineering/>