Test Driven Development Process -Write a Test Write a complete test case describing the function. To make the test cases the developer must understand the features and requirements using user stories and use cases. This test should fail initially because the code doesn't exist yet. Run the Test Execute the test to confirm that it fails, as expected. This step ensures that the test is correctly assessing the absence of the desired functionality. Write the Code Now, write the minimum amount of code necessary to make the test pass. This means implementing the functionality required by the test. Run All Tests After writing the code, run all tests, not just the one you just wrote. This ensures that the new code didn't break any existing functionality. Refactor Code Once all tests pass, refactor the code to improve its design, readability, or performance. Refactoring ensures that the code remains clean and maintainable without altering its external behavior. Repeat Repeat this process for each new piece of functionality or enhancement, writing tests first, then code, and finally refactoring as needed.

Benefits -

Early Bug DetectionImproved Code QualityFaster DebuggingFacilitates Collaboration

• Customer Satisfaction

Faster Developmentand more...