

Test-Driven Development (TDD)

Test-driven development starts with developing the test for each one of the features. The test might fail as the tests are developed even before the development. The development team then develops and refactors the code to pass the test.

Test-driven development is related to the test-first programming evolved as part of extreme programming concepts.

Test-Driven Development Process:

- Add a Test
- Run all tests and see if the new one fails
- Write some code
- Run tests and Refactor code
- Repeat

Benefits of TDD:

- Much less debug time
- Code has proven to meet requirements
- Tests become Safety Net
- Near zero defects
- Shorter development cycles

Work Breakdown Structure (WBS)

Work Breakdown Structure (WBS) in project management is a method for completing a complex, multi-step project. It's a way to divide and conquer large projects to get things done faster and more efficiently.

The goal of a WBS is to make a large project more manageable. Breaking it down into smaller chunks means work can be done simultaneously by different team members, leading to better team productivity and easier project management.