Assignment 2**: Produce a comparative infographic of TDD, BDD, and FDD methodologies. Illustrate their unique approaches, benefits, and suitability for different software development contexts. Use visuals to enhance understanding.**

Test-Driven Development (TDD), Behavior-Driven Development (BDD), and Feature-Driven Development (FDD) are three distinct methodologies in software development. Each has its unique approaches, benefits, and suitability for different contexts.

Comparative Infographic: TDD, BDD, and FDD Methodologies

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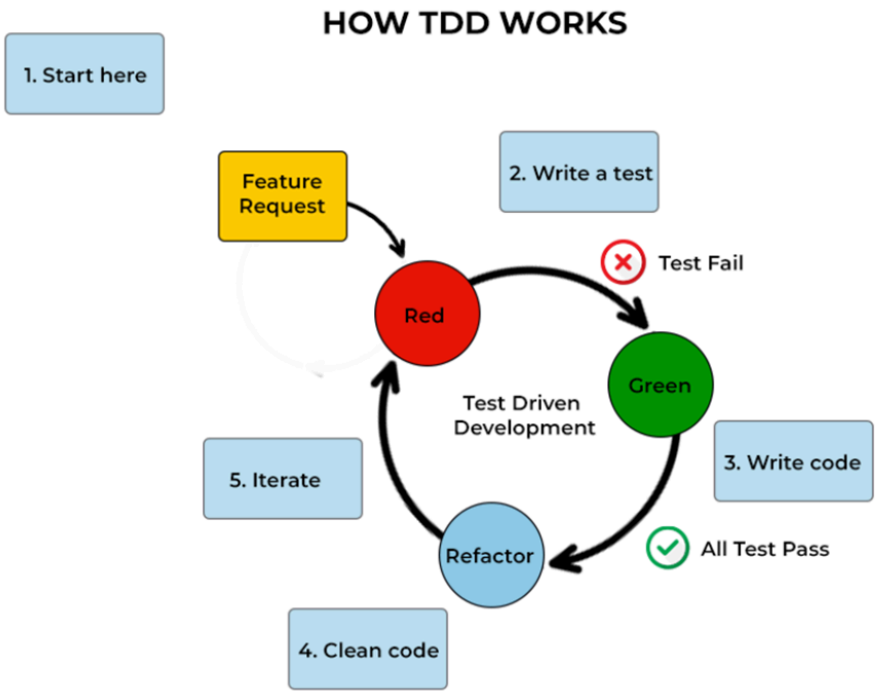
1. Test-Driven Development (TDD)

Approach:

- **Write tests before writing the actual code.**
- **Develop code to pass the tests.**
- **Refactor code to improve quality while ensuring tests still pass.**

Visual:



Benefits:

- **Ensures code quality and reliability.**

- **Encourages simple, clean code design.**
- **Early detection of bugs.**

Suitability:

- **Ideal for projects requiring high reliability and maintainability.**
- **Suitable for unit testing and detailed code verification.**

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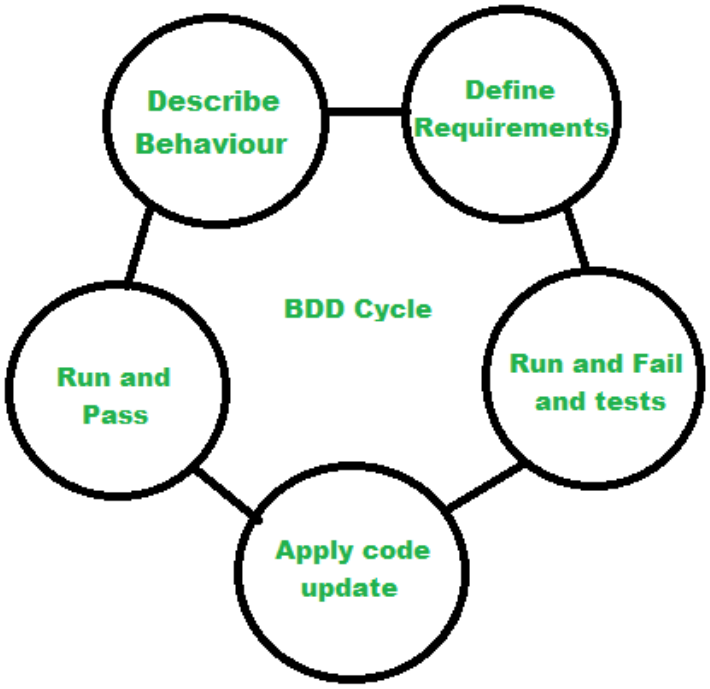
2. Behavior-Driven Development (BDD)

Approach:

- **Focus on the behavior of the application from the end user's perspective.**
- **Use natural language descriptions (Given-When-Then) for test cases.**
- **Collaboration between developers, testers, and non-technical stakeholders.**

Visual:



Benefits:

- **Enhances communication and collaboration.**
- **Ensures alignment with business requirements.**
- **Improves test coverage and understanding of user behavior.**

Suitability:

- **Ideal for projects with significant stakeholder involvement.**
- **Suitable for acceptance testing and ensuring user requirements are met.**

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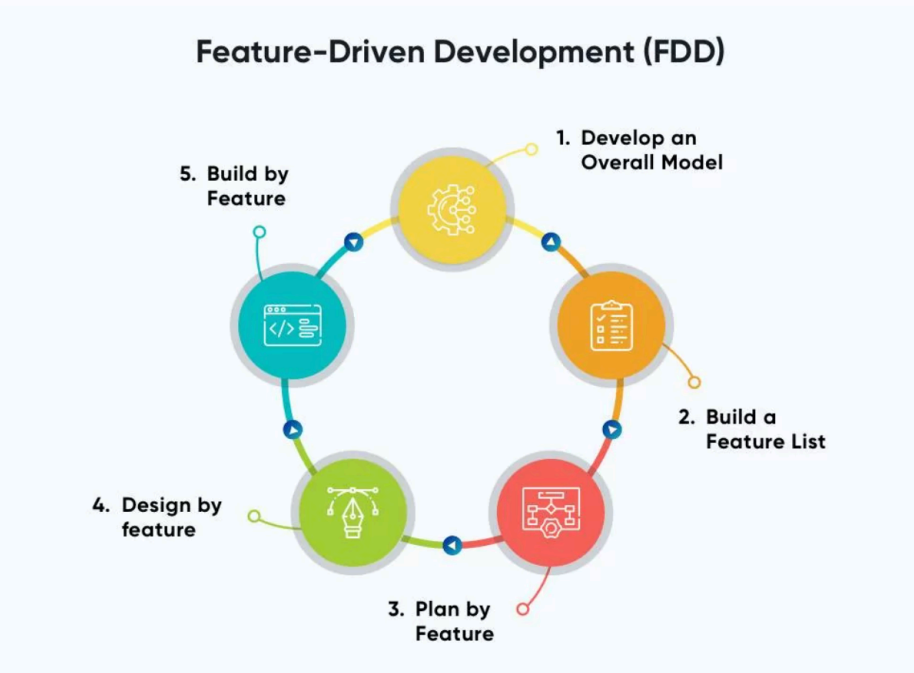
3. Feature-Driven Development (FDD)

Approach:

- **Develop software features iteratively.**
- **Each feature is designed, built, and tested in short iterations.**
- **Focus on delivering tangible, working features.**

Visual:



Benefits:

- **Delivers frequent, tangible progress.**
- **Facilitates clear milestones and project tracking.**
- **Encourages modular design and development.**

Suitability:

- **Ideal for large, complex projects with many features.**
- **Suitable for iterative and incremental development.**