

DEVELOPMENT METHODOLOGIES

1. DDD (Domain-Driven Design):

- Focuses on modelling software based on the real-world domain.
- Encourages close collaboration between developers and domain experts.
- Uses a common language (Ubiquitous Language) to define and communicate system behaviour.

2. TDD (Test-Driven Development):

- Write tests before writing code.
- Follows the Red-Green-Refactor cycle:

Red: Write a failing test.

Green: Write the minimal code to pass the test.

Refactor: Clean up the code.

Improves code quality and ensures test coverage from the start.

3. BDD (Behaviour-Driven Development):

- Extension of TDD but focuses on the behaviour of the application.
- Uses natural language (often in the form of "Given-When-Then" statements) to define test cases.
- Encourages collaboration between developers, testers, and business stakeholders.

4. FDD (Feature-Driven Development):

- A model-driven, short-iteration process focused on delivering features.
- Begins with modelling the domain and building a feature list.
- Each feature is developed in small, client-valued increments.
- Best suited for large-scale, team-based projects.