### **1. DDD – Domain Driven Design**

* Focuses on modeling software based on the **core business domain**.
* Encourages close collaboration between developers and domain experts.
* Uses a **ubiquitous language** shared by both technical and business teams.
* Emphasizes designing around **business logic** and not just data or structure.

### **2. TDD – Test Driven Development**

* A development process where **tests are written before code**.
* Follows the **Red-Green-Refactor** cycle: write a failing test, make it pass, then improve the code.
* Ensures better **code quality**, fewer bugs, and easier maintenance.
* Helps developers think through the design before implementation.

### **3. BDD – Behavior Driven Development**

* An extension of TDD that focuses on **user behavior and expectations**.
* Uses **plain language** to describe test cases (e.g., Given-When-Then).
* Bridges the gap between developers, testers, and non-technical stakeholders.
* Promotes better understanding of **business requirements**.

### **4. FDD – Feature Driven Development**

* A lightweight Agile method focused on **building and delivering features**.
* Development is organized around **specific, client-valued features**.
* Follows five main steps: Develop overall model, build feature list, plan by feature, design by feature, build by feature.
* Works well for **larger teams** and structured environments.