**Phase 5 Overview: Apex Programming**

**Objective**

The objective of this phase was to enhance data integrity by implementing a business rule that cannot be enforced using declarative tools. This demonstrates foundational Apex development skills and the ability to protect critical business data programmatically.

**Procedure / Key Activities Performed**

* An **Apex Trigger** was created on the Subsidy\_Application\_\_c object, configured to run before a record is updated.
* The trigger's logic checks if a record's original status was "Approved" or "Disbursed." If the condition is met, it adds an error to the record, preventing any further modifications.
* A dedicated **Test Class** was written to validate this logic, ensuring the trigger correctly blocks invalid updates and achieves sufficient code coverage for deployment.

**Result / Key Outcomes**

* Enhanced data integrity by programmatically locking approved and disbursed subsidy records from unauthorized edits.
* A successful demonstration of core Apex skills, including trigger context variables and error handling.
* Ensured code quality and deployability through a comprehensive unit test.