Student Management System

Phase 5: Apex Programming (Developer)

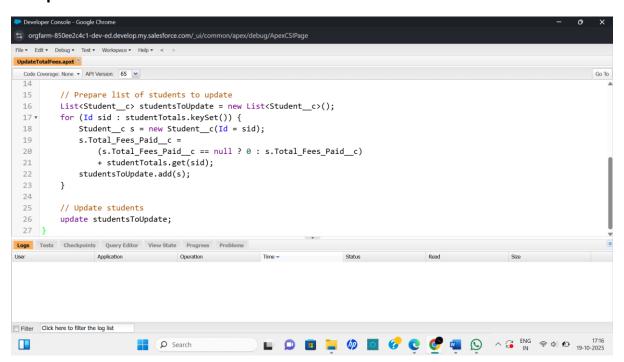
Overview

Phase 5 introduces server-side programming using Apex, Salesforce's proprietary programming language. While Phase 4 focused on declarative automation (Flows, Validations), Phase 5 handles complex business logic that requires code.

In my project, I implemented an Apex Trigger to automatically update the Total_Fees_Paid__c field on Student records whenever a Payment is created or updated. This ensures the student record always reflects accurate total payments without manual intervention.

5.1 Your Apex Trigger: UpdateTotalFees

Complete Code



Purpose

Automatically updates Total_Fees_Paid__c on the Student record each time a Payment is created or updated, ensuring the student record always reflects accurate total payments.

5.2 Deploy This Trigger

Step 1: Create Trigger in Salesforce

- 1. Go to Setup \rightarrow Apex Triggers \rightarrow New
- 2. Choose object: Payment__c
- 3. Paste the code from section 5.3
- 4. Click Save

Step 2: Test the Trigger

- 1. Create a test student: "Anjali"
- 2. Create test course: "Java", fee 100,000
- 3. Create enrollment linking student to course
- 4. Create payment: Amount 50,000
- 5. Open student record and check Total_Fees_Paid__c
- 6. Expected: Should show 50,000