Phase 5: Apex Programming (Developer)

Goal: Add advanced logic into the Membership & Subscription Manager project.

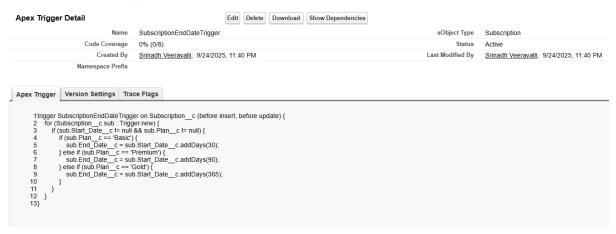
1. Apex Triggers

 Implemented a trigger on Subscription_c to automatically calculate End Date based on Plan.

Logic:

- Basic Plan → End Date = Start Date + 30 days
- o Premium Plan → End Date = Start Date + 90 days
- o Gold Plan → End Date = Start Date + 365 days

Apex Trigger SubscriptionEndDateTrigger



2. Reusability & Clean Code

- Logic written in trigger ensures automation without manual input.
- Can be extended later with a handler class if the system grows.

3. SOQL Usage

- Trigger handles record values using collections (Trigger.new).
- Prevents manual errors in subscription data entry.

Apex Triggers

This page allows you to view and modify all the triggers in your organization. To create a new trigger, navigate to the approp



Percent of Apex Used: 0.01%

You are currently using 566 characters of Apex Code (excluding comments and @isTest annotated classes) in your organiz Classes and Triggers defined in your organization.



View: All ✓ Create New View

					Developer Console	
Action	Name ↑	Namespace Prefix	sObject Type	Api Version	Status	
Edit Del	<u>SubscriptionEndDateTrigger</u>		Subscription	64.0	Active	

4. Exception Handling

• Null checks are added to avoid runtime errors when fields are missing.

5. Test Class (Planned)

- Will create Apex Test Class to validate different plan scenarios.
- Ensures higher code coverage and deployment readiness.

6. Future Extensions

- Batch Apex → Mark expired subscriptions daily.
- Scheduled Apex → Email admins with daily status reports.
- Queueable Apex → Handle async operations like discount calculations.

Conclusion:

With Apex Trigger implemented, subscriptions auto-calculate end dates, reducing manual work.