

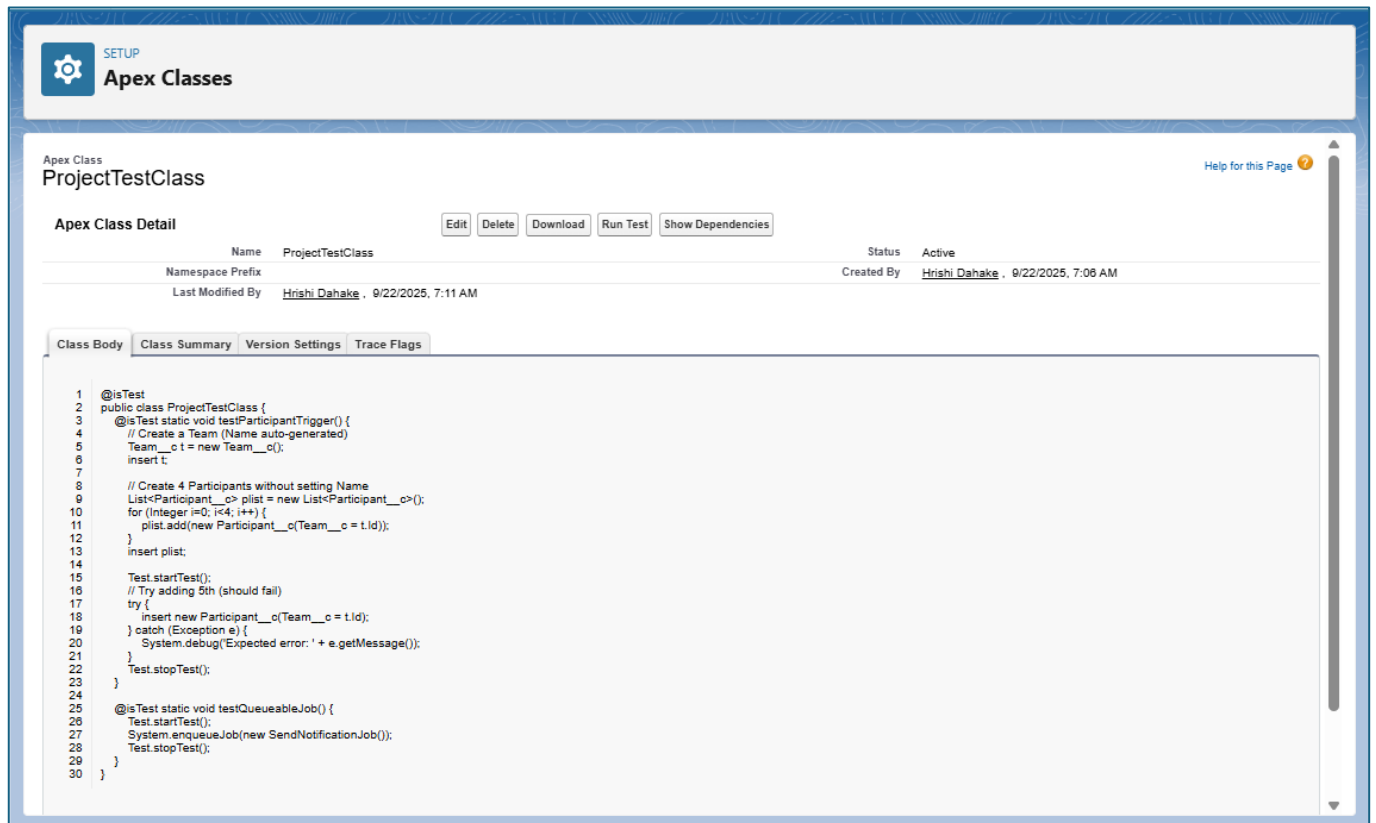
Phase 5: Apex Programming

1. Trigger: Participant Team Limit

Goal: Prevent teams from having more than 4 participants.

Implementation:

- Created ParticipantTeamLimit trigger on Participant__c object.
- Trigger runs **after insert**.
- Checks number of participants in a team; blocks if > 4.



2. SOQL Query: Fetch Participants by Skill

Goal: Fetch participants with specific skills (e.g., "AI").

Implementation:

- Used Developer Console → Query Editor → Execute SOQL.

Query Example:

```
SELECT Name, Skill__c, Team__c FROM Participant__c WHERE Skill__c = 'AI'
```

Developer Console - Google Chrome

orgfarm-54d1d47afb-dev-ed.develop.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

File Edit Debug Test Workspace Help < >

Participant__c@7:09 PM

SELECT Name, Skills__c, Team__c FROM Participant__c WHERE Skills__c = 'AI'

Query Results - Total Rows: 0

Name	Skills__c	Team__c
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Query Grid: Save Rows Insert Row Delete Row Refresh Grid

Access in Salesforce: Create New Open Detail Page Edit Page

Logs Tests Checkpoints Query Editor View State Progress Problems

SELECT Name, Skills__c, Team__c FROM Participant__c WHERE Skills__c = 'AI'

Any query errors will appear here...

Execute Use Tooling API

History

Executed

SELECT Name, Skills__c, Team__c FROM Participant__c WHERE ...

3. Queueable Apex: Bulk Notifications

Goal: Send notifications asynchronously to all participants.

Implementation:

- Created SendNotificationJob class implementing Queueable.
- Debug logs simulate email/SMS notifications.

SETUP

Apex Classes

Apex Class

SendNotificationJob

Help for this Page

Apex Class Detail

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Name	SendNotificationJob	Status	Active
Namespace Prefix		Code Coverage	100% (3/3)
Created By	Hrishi Dahake , 9/22/2025, 6:42 AM	Last Modified By	Hrishi Dahake , 9/22/2025, 6:42 AM

Class Body

Class Summary Version Settings Trace Flags

```
1 public class SendNotificationJob implements Queueable {
2     public void execute(QueueableContext context) {
3         List<Participant__c> participants = [SELECT Name, Email__c FROM Participant__c];
4         for (Participant__c p : participants) {
5             System.debug('Notification sent to: ' + p.Email__c);
6         }
7     }
8 }
```

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4. Test Class: ProjectTestClass

Goal: Ensure trigger and queueable job run correctly.

Implementation:

- Created ProjectTestClass with @isTest.
 - Tests:
 1. Trigger prevents adding >4 participants.
 2. Queueable Apex runs without errors.
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