Phase 5 : - Apex Programming

1. Apex Triggers

UpdateSkillOnApproval

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Apex Trigger Detail   Edit Delete Download Show Dependencies

Name	UpdateSkillOnApproval	sObject Type	Certification
Code Coverage	90% (10/11)	Status	Active
Created By	Gaurang Deotale, 9/25/2025, 2:04 PM	Last Modified By	Gaurang Deotale, 9/25/2025, 2:15 PM
Namespace Prefix			

Apex Trigger | Version Settings | Trace Flags

```
1 trigger UpdateSkillOnApproval on Certification__c (after update) {
2   List<Skill__c> skillsToUpdate = new List<Skill__c>();
3
4   for(Certification__c cert : Trigger.new){
5     Certification__c oldCert = Trigger.oldMap.get(cert.Id);
6
7     // Check if Status changed to Approved
8     if(cert.Status__c == 'Approved' && oldCert.Status__c != 'Approved'){
9       try {
10        Skill__c skill = [SELECT Id, Level__c FROM Skill__c WHERE Id = :cert.Skill__c LIMIT 1];
11        skill.Level__c = 'Advanced'; // simple update for demo
12        skillsToUpdate.add(skill);
13      } catch(Exception e){
14        System.debug('Error updating skill: ' + e.getMessage());
15      }
16    }
17  }
18
19  if(!skillsToUpdate.isEmpty()){
20    update skillsToUpdate;
```

2. Test Class

UpdateSkillOnApprovalTest

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Apex Class Detail   Edit Delete Download Run Test Show Dependencies

Name	UpdateSkillOnApprovalTest	Status	Active
Namespace Prefix		Created By	Gaurang Deotale, 9/25/2025, 2:15 PM
Last Modified By	Gaurang Deotale , 9/25/2025, 2:16 PM		

Class Body | Class Summary | Version Settings | Trace Flags

```
1   @isTest
2   public class UpdateSkillOnApprovalTest {
3     @isTest
4     static void testSkillUpdate() {
5       // Create Employee
6       Employee__c emp = new Employee__c(Name='Test Employee', Department__c='IT', Job_Role__c='Developer');
7       insert emp;
8
9       // Create Skill
10      Skill__c skill = new Skill__c(Skill_Name__c='Apex', Level__c='Beginner');
11      insert skill;
12
13      // Create Certification
14      Certification__c cert = new Certification__c(
15        Employee__c = emp.Id,
16        Skill__c = skill.Id,
17        Status__c = 'Pending',
18        Score__c = 80
19      );
20      insert cert;
21
22      // Update Certification to Approved
23      cert.Status__c = 'Approved';
24      update cert;
25
26      // Query updated Skill
27      Skill__c updatedSkill = [SELECT Id, Level__c FROM Skill__c WHERE Id = :skill.Id];
28      System.assertEquals('Advanced', updatedSkill.Level__c, 'Skill Level should update to Advanced');
29    }
30  }
```

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