# **Phase 5: Apex Programming (Developer)**

#### Goal:

- Match youth to jobs based on skills using Apex.
- Automatically create Interview\_\_c records.
- Handle bulk data safely and meet Salesforce deployment standards.

# Step 1: Apex Class — JobMatchingController

**Purpose:** Perform matching and create interviews programmatically.

# **Steps to create Apex Class:**

- 1. Click Setup (○) → Quick Find → Apex Classes → New.
- 2. Copy and paste the JobMatchingController code below.
- 3. Click Save.

#### **Code Logic Overview:**

- Method 1: getMatchedJobs(youthId)
  - Fetch youth skills.
  - o Find jobs requiring those skills.
  - o Return matched jobs (up to 100 records).
- Method 2: createInterview(youthId, jobId, interviewDateIso, interviewerId)
  - Converts ISO date string → Datetime.
  - Creates Interview\_\_c record with Status\_\_c = Scheduled.

Returns the created interview Id.

code works for these tasks. **Small improvement:** In AutoInterviewScheduler, query COUNT() inside a loop — for very large data, consider bulkifying (collect all youth + jobs, then insert interviews in one DML).



# Step 2: Apex Test Class — JobMatchingControllerTest

**Purpose:** Ensure at least 75% coverage and test functionality.

#### **Steps to create Test Class:**

- 1. Click Setup → Apex Classes → New.
- 2. Copy and paste the JobMatchingControllerTest code below.
- 3. Click Save.

```
Developer Console - Giorgie Chrome

25 orgham-44c2b239c0-dev-eddevelop my.saledorce.com/ ut/common/apoy/debug/ApoxCSIPage

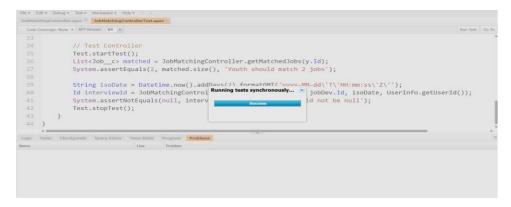
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```

## **Test Logic Overview:**

- Creates test Skill\_c, Youth\_c, YouthSkill\_c, Job\_c, JobSkill\_c.
- Tests getMatchedJobs() → asserts correct number of jobs.

Tests createInterview() → asserts interview Id is not null.



## Step 3: Execute Apex for Individual Youth

# Steps:

- 1. Open **Developer Console** → **Execute Anonymous Window**.
- 2. Run this snippet (replace YID-0010 with actual youth auto-number):

This works — it will create an interview for the first matched job.

#### Step 4: Scheduler — AutoInterviewScheduler

**Purpose:** Automatically create interviews for all youth.

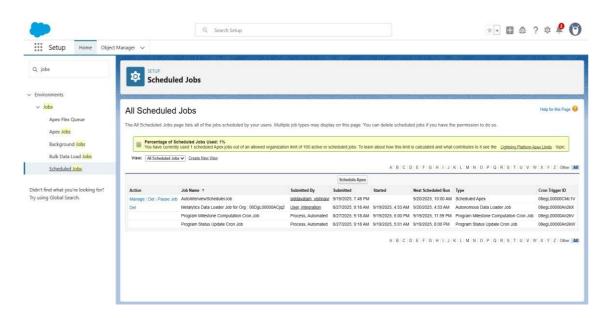
# Steps to schedule:

- 1. Click Setup → Apex Classes → Schedule Apex → New.
- 2. Choose AutoInterviewScheduler class.
- 3. Set frequency (daily/hourly) and start/end dates.

4. Click **Save** to activate scheduler.

#### Logic:

- Loops through all youth → gets matched jobs → creates interview if none exists.
- System.debug() logs each creation.



Step 5: Apex Helper Class — JobMatchingHelper

**Purpose** Handle automatic interview creation and email sending when youth skills match jobs. **Steps to create Helper Class:** 

- 1. Click Setup → Apex Classes → New.
- 2. Copy and paste the **JobMatchingHelper** Code below.
- 3. Click Save.

```
File ▼ Edit ▼ Debug ▼ Test ▼ Workspace ▼ Help ▼ < >
JobMatchingController.apxc X JobMatchingHelper.apxc X JobMatchingControllerTest1.apxc X
Code Coverage: None • API Version: 64 •
  1 ▼ public class JobMatchingHelper {
            public static void processYouthSkills(Id youthId, List<Messaging.SingleEmailMessage> emailsToSend, List<Interview_c> interviewsTo
                // Get Youth Skills
                 Set<Id> youthSkillIds = new Set<Id>();
                 for(YouthSkill\_c\ ys\ :\ [SELECT\ Skill\_c\ FROM\ YouthSkill\_c\ WHERE\ Youth\_c\ =\ :youthId])\{
                      if(ys.Skill__c != null) youthSkillIds.add(ys.Skill__c);
  9
                if(youthSkillIds.isEmpty()) return;
  10
                // Find matching jobs
Map<Id, Job_c> matchedJobs = new Map<Id, Job_c>();
for(JobSkill_c js : [SELECT Job_c, Job_r.Name FROM JobSkill_c WHERE Skill_c IN :youthSkillIds]){
    matchedJobs.put(js.Job_c, js.Job_r);
  11
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Logs Tests Checkpoints Query Editor View State Progress Problems
```