Phase 5: Apex Programming (Developer)

Custom Apex controllers were developed to fetch aggregated data for dashboards. This included counts of Jobs, Applications by stage, and Candidates.

Apex Classes Developed:

1. Class Name: UserUtil

What it does: Returns the current user's Id, Name, and Role/Profile as a map for use in Lightning components.

Methods used: @AuraEnabled, UserInfo.getUserId(), SOQL query on User, ternary operator, Map.put().

2. Class Name: TalentBridgeController

What it does: Handles fetching Jobs, Candidates, and Applications for the Candidate Portal based on search input.

Methods used: @AuraEnabled, String.escapeSingleQuotes(), SOQL queries with LIKE, ORDER BY, and LIMIT.

3. Class Name: TalentBridgeDashboardController

What it does: Generates and returns dashboard analytics, including total counts and daily trends for Jobs, Applications, and Candidates.

Methods used: @AuraEnabled, SOQL COUNT() and AggregateResult with GROUP BY, map and list operations to structure the results.

4. Class Name: CandidatePortalController

What it does: Manages candidate-facing operations—fetches picklist values, lists active jobs, retrieves job details, creates/updates candidates, allows candidates to apply for jobs, and retrieves candidate applications.

Methods used:

@AuraEnabled(cacheable=true)/@AuraEnabled, Schema.DescribeFieldResult and getPicklistValues(), SOQL queries on Candidate__c, Jobs_c__c, Application__c, insert and update DML operations, exception handling with AuraHandledException. 5. Class Name: HRPortalController — Manages HR Portal: create and list Jobs, fetch/update Applications, schedule and list Interviews, send Offers, manage Candidates/HR users, and create/list Onboarding tasks (exposed to Aura/LWC).

Methods/Calls & Relations: Uses @AuraEnabled methods (createJob, getPostedJobs, getApplicationsForJob, updateApplicationStatus, getScheduledInterviews, getPendingOffers, sendOfferLetter, getAllCandidates, getHRUsers, scheduleInterview, getOnboardingTasks, createOnboardingTask); sObject relations — Application __c looks up Candidate __c and Job_c __c; Interview __c links to Application __c; Offer _Management __c links to Application __c; Onboarding Task __c links to Candidate __c; Jobs_c __c is referenced by Application __c and Offer _Management __c; User is used as Interviewer and to identify HR users.

6. Class Name: EmailNotificationService — What it does: Sends automated emails (application status updates, interview schedules, offer letters, notify HR on offer acceptance, onboarding task notices); designed to be invoked from triggers/handlers.

Methods used: sendApplicationStatusEmail, sendInterviewScheduledEmail, sendOfferLetterEmail, sendOfferAcceptanceToHR, sendOnboardingTaskEmail—uses SOQL to load

Application__c/Interview__c/Offer_Management__c/Onb oarding_Task__c and related Candidate__r/Job_c__r, queries User for HR emails, and sends email via

Messaging.SingleEmailMessage + Messaging.sendEmail.

✓ TALENTBRIDGE

- .vscode
- > config
- ✓ force-app\main\default
 - applications
 - ✓ aura
 - classes
 - ApplicationTriggerHandler.cls
 - ApplicationTriggerHandler.cls-meta.xml
 - CandidatePortalController.cls
 - CandidatePortalController.cls-meta.xml
 - EmailNotificationService.cls
 - EmailNotificationService.cls-meta.xml
 - HRPortalController.cls
 - MRPortalController.cls-meta.xml
 - InterviewTriggerHandler.cls
 - InterviewTriggerHandler.cls-meta.xml
 - OfferTriggerHandler.cls
 - OfferTriggerHandler.cls-meta.xml
 - OnboardingTriggerHandler.cls
 - OnboardingTriggerHandler.cls-meta.xml
 - TalentBridgeController.cls
 - TalentBridgeController.cls-meta.xml
 - TalentBridgeDashboardController.cls
 - TalentBridgeDashboardController.cls-meta.xml
 - UserUtil.cls
 - UserUtil.cls-meta.xml

Apex Triggers used

- 1. **ApplicationTrigger:** Calls the handler after an Application record is updated to handle status changes or related actions.
- 2. **InterviewTrigger:** Calls the handler after a new Interview record is inserted to handle notifications or related logic.

- 3. **OfferTrigger:** Calls the handler after an Offer record is updated to handle status changes or notifications.
- 4. **OnboardingTrigger:** Calls the handler after a new Onboarding Task is inserted to handle notifications or related actions.

Apex Triger Handlers used

- 1. **ApplicationTriggerHandler:** Sends an email to the candidate whenever their application stage is updated.
- 2. **InterviewTriggerHandler:** Sends an email to the candidate whenever a new interview is scheduled.
- 3. **OfferTriggerHandler:** Sends offer-related emails—either the offer letter to the candidate when status is "Sent" or notifies HR when the offer is "Accepted."
- 4. **OnboardingTriggerHandler:** Sends an email to the candidate whenever a new onboarding task is created.

