

Phase 8 Report

Data Management & Deployment

Project: College Placement & Internship Management System

Batch: 4

Program: TCS Last Mile SmartBridge

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1. Introduction

Phase 8 emphasizes managing data efficiently, ensuring data integrity, avoiding duplicates, and deploying the solution from Sandbox to Production. This ensures all users have consistent access to accurate records while safeguarding sensitive placement information.

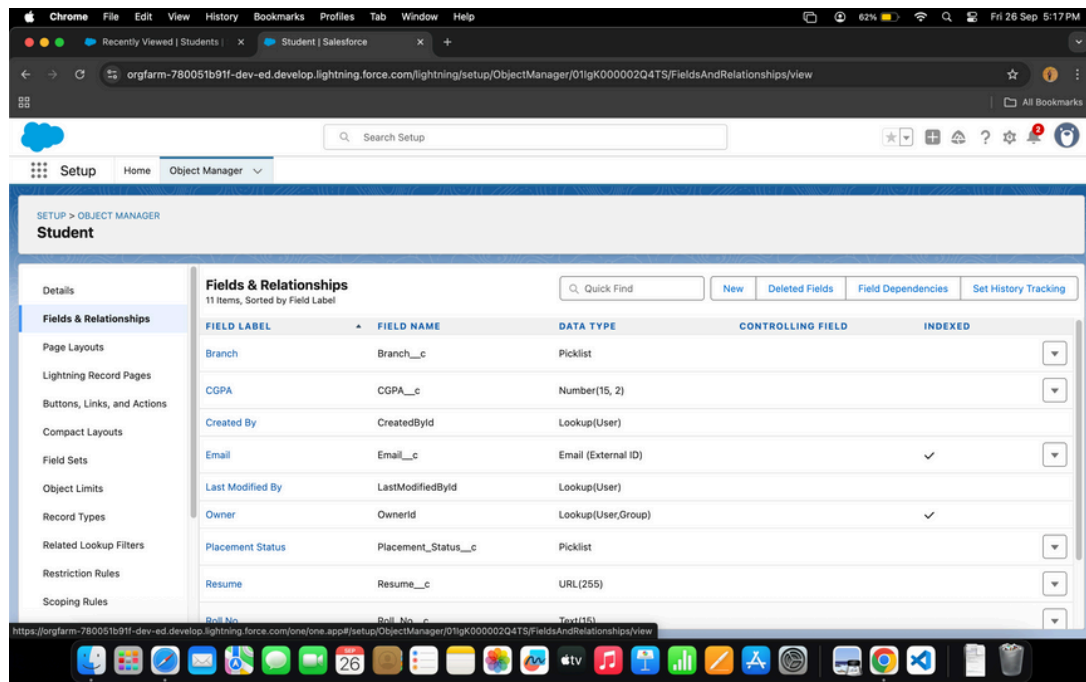
2. Objectives

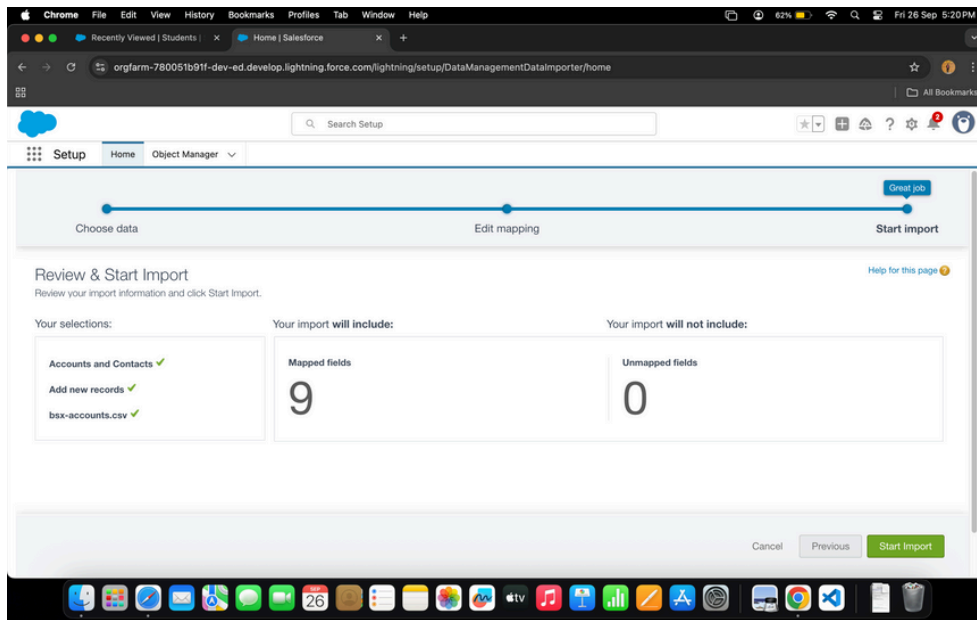
- Import and validate Student, Company, Job Posting, and Application data.
- Implement Duplicate Rules to prevent repeated entries.
- Perform data backup and export for safety.
- Deploy custom objects, Apex classes, triggers, and flows from Sandbox to Production using Change Sets or SFDX.
- Verify successful deployment and data integrity.

3. Steps Performed

3.1 Data Import

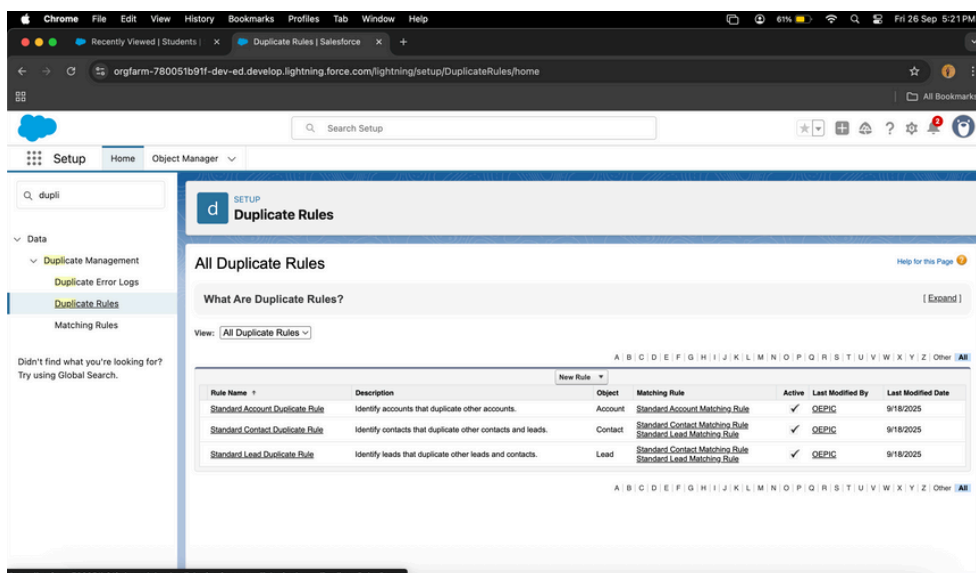
- Used **Data Import Wizard** for Students and Companies.
- Mapped CSV fields to Salesforce fields.
- Ensured records validated against required fields and picklist values.



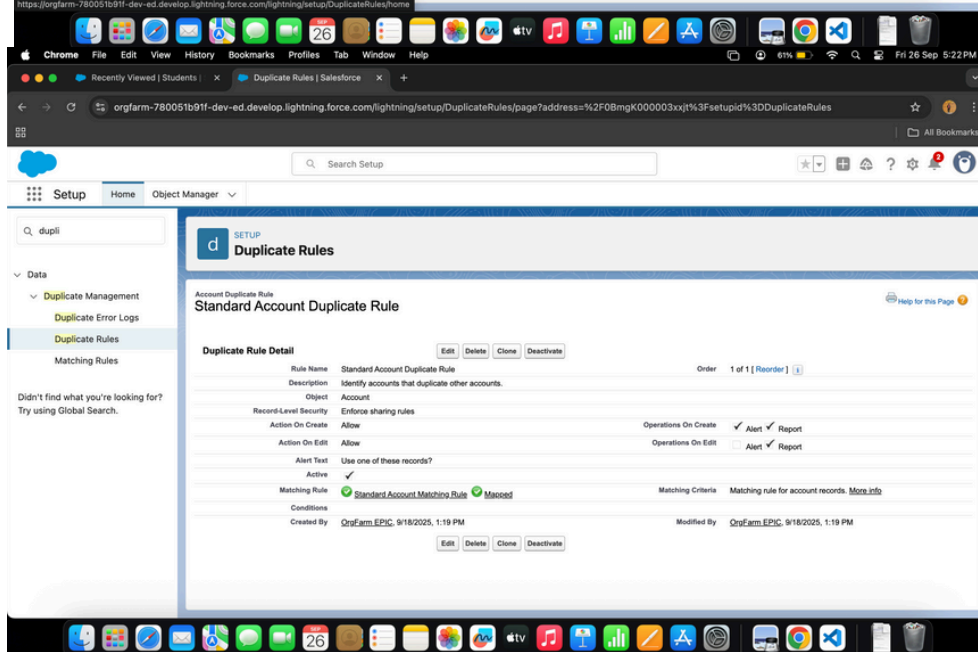


3.2 Duplicate Rules & Matching Rules

- Created **Matching Rules** on Student Email and Roll Number.
- Configured **Duplicate Rules** to block duplicate Student and Job Application entries.
- Tested by attempting to create duplicate records → system blocked creation with error mes-

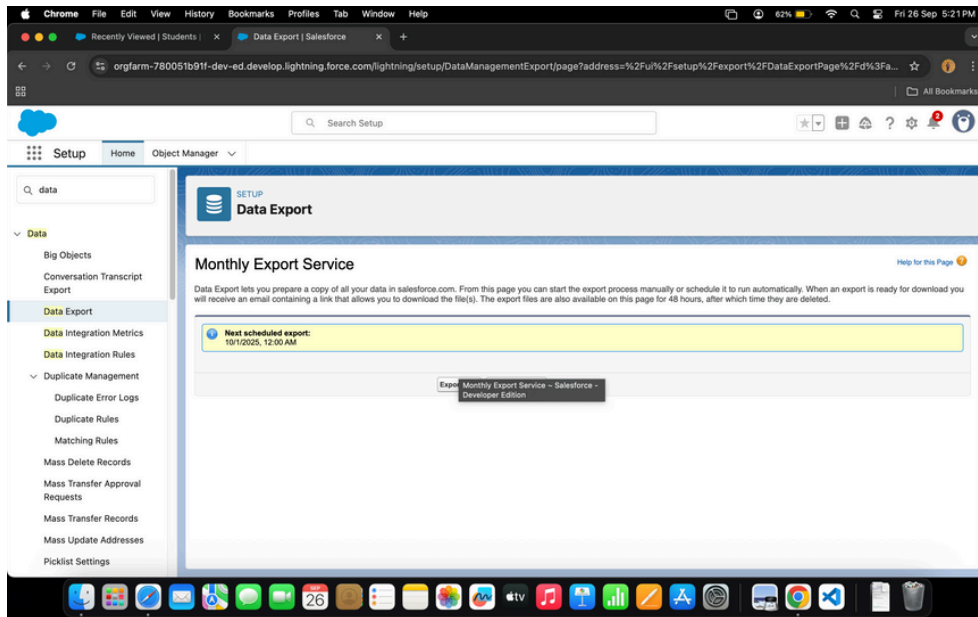


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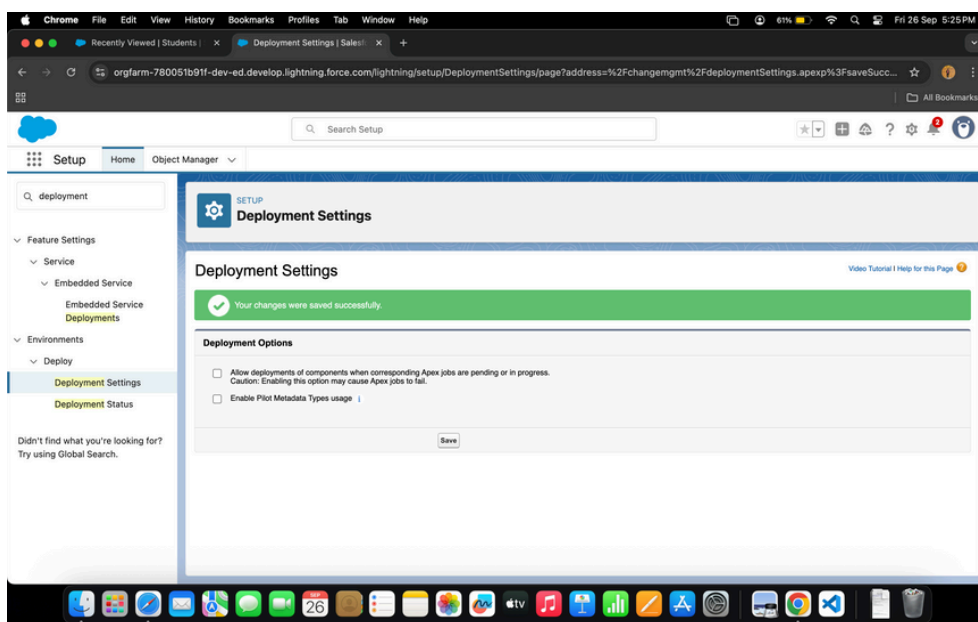
3.3 Data Export & Backup

- Used **Data Loader** and **Data Export** to backup all Student, Job Posting, Company, and Application records.
- Stored backup files securely for disaster recovery.



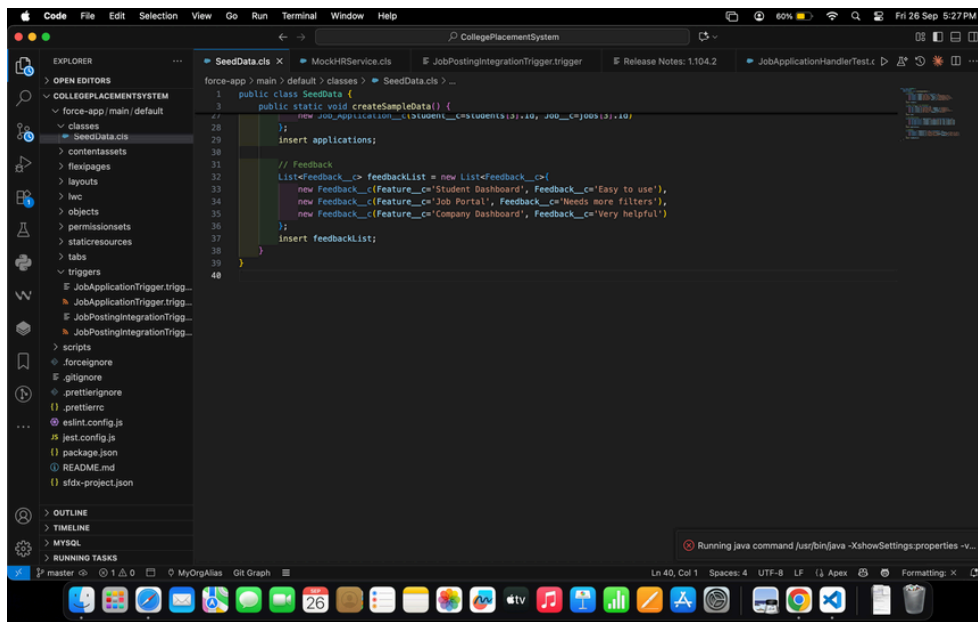
3.4 Deployment using Change Sets

- Created Outbound Change Set in Sandbox.
- Added custom objects, fields, Apex classes, triggers, validation rules, flows, and profiles.
- Uploaded Change Set to Production and deployed.
- Verified all metadata deployed correctly with proper field-level security and profiles.



3.5 Deployment using SFDX (Optional)

- Retrieved metadata using `sfdx force:source:retrieve`.
- Deployed to Production with `sfdx force:source:deploy`.
- Verified logs for errors and resolved conflicts if any.



3.6 Data Validation After Deployment

- Created sample Students, Companies, and Job Applications to verify triggers, flows, and validationrules.
- Confirmed that Duplicate Rules worked, and CGPA-based status updates were triggered correctly.
- Validated role-based access and record visibility.

4. Expected Outcomes

- Student, Company, Job Posting, and Application data imported successfully.
- Duplicate prevention in place and validated.
- Backup completed for disaster recovery.
- Deployment completed with full metadata and role access intact.
- Sample testing confirmed triggers, flows, and automation are functional.

5. Conclusion

Phase 8 ensures that the College Placement & Internship Management System is fully populated with accurate data, protected from duplicates, and successfully deployed to Production. All deployment and backup steps provide a secure and stable foundation for Phase 9: Reporting, Dashboards, and Security Review.

