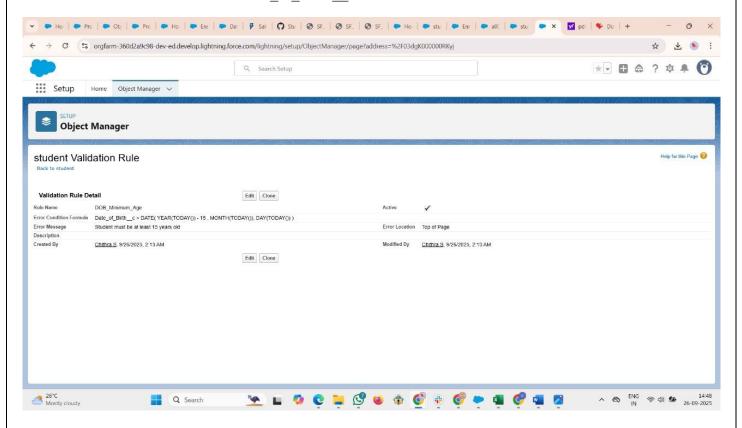
Salesforce Project Phase-4

Smart Education & E-Learning Management System

Phase 4: Process Automation (Admin)

Validation Rules

- **❖** Validation Rule 1: Minimum Age for Student
 - Setup \rightarrow Object Manager \rightarrow Student $c \rightarrow$ Validation Rules \rightarrow New
 - **Purpose:** Ensure students are at least 15 years old.
 - Rule Name: DOB_Minimum_Age
 - Error Condition Formula:
 - Date of Birth c > DATE(YEAR(TODAY()) 15, MONTH(TODAY()), DAY(TODAY()))
 - Error Message: Student must be at least 15 years old.
 - Error Location: Field → Date of Birth c



***** Validation Rule 2: Completion Percentage

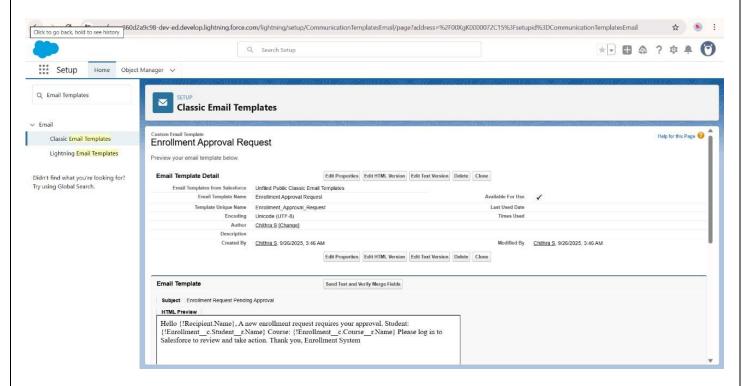
• **Purpose:** Ensure Completion % is between 0 and 100.

- Rule Name: Completion Valid Range
- Error Condition Formula:
- OR(Completion c < 0, Completion c > 100)
- Error Message: Completion must be between 0 and 100.
- Error Location: Field → Completion_c

Record-Triggered Flows

❖ Flow 1: Set Submission Status (OnTime / Late)

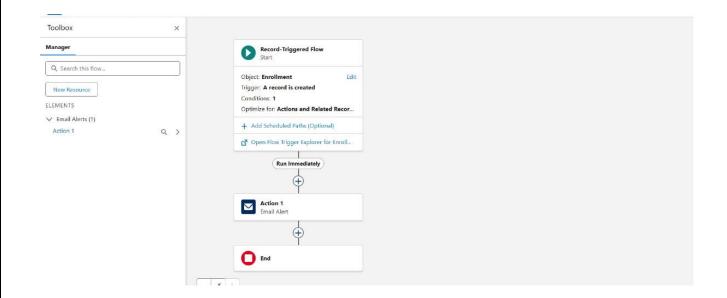
- Setup → Flow → New Flow → Record-Triggered Flow
- Object: Submission c
- Trigger: Record Created (Before Save)
- Logic:
 - Get Assignment Due_Date__c
 - o If Submission_Date_ $c \le Due_Date_c \longrightarrow Status = OnTime$
 - \circ Else \rightarrow Status = Late



❖ Flow 2: Auto-Create / Update Progress

- Setup \rightarrow Flow \rightarrow New Flow \rightarrow Record-Triggered Flow (After Save)
- Object: Submission c
- Logic:

- Get Progress__c where Student__c = \$Record.Student__c AND Course__c = \$Record.Assignment__r.Course__c
- o If Progress exists → Update Completion / Last Accessed
- o Else → Create new Progress record with:
 - Student c = \$Record.Student c
 - Course_c = \$Record.Assignment_r.Course_c
 - Last Accessed c = \$Record.Submission Date c



Email Alerts

❖ Flow 3: Email Students when New Assignment is Created

- Setup \rightarrow Flow \rightarrow New Flow \rightarrow Record-Triggered Flow
- **Object:** Assignment c (After Save, on Create)
- Steps:
 - o Get Enrollment c where Course c = \$Record.Course c AND Status = Active
 - Loop through enrollments
 - o Action: **Send Email** → To Student r.Email using Assignment template

Approval Process

***** Enrollment Approval Process

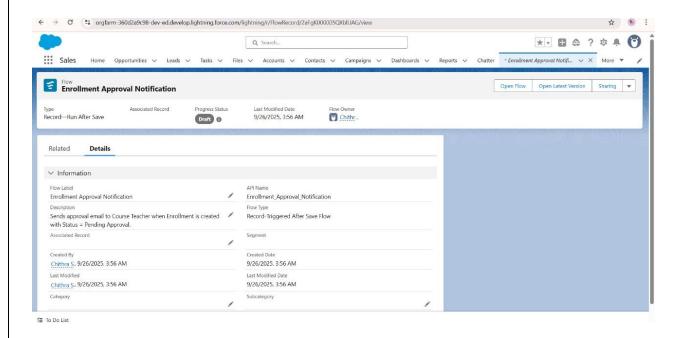
- Setup \rightarrow Approval Processes \rightarrow New \rightarrow Standard Wizard
- **Object:** Enrollment c
- Process Name: Enrollment Approval

- Entry Criteria: Status_c = Pending Approval
- **Approver:** Course_r.Teacher_c
- Initial Submission Action: (Optional) Email to Teacher
- Final Approval Action:
 - Update Status_c = Approved
 - o (Optional) Email to Student
- Final Rejection Action:
 - Update Status_c = Rejected
 - o (Optional) Email to Student
- Page Layout Update: Added Approval History related list to Enrollment_c

Tasks (via Flow)

❖ Late Submission Task

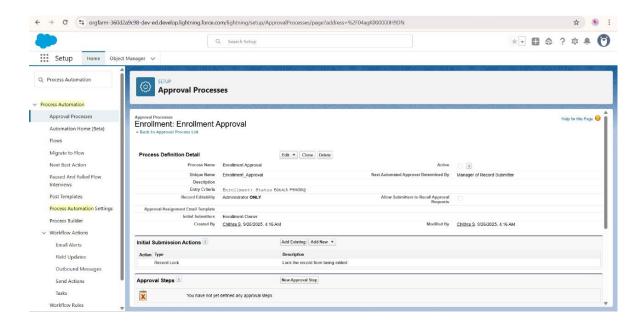
- Record-Triggered Flow on Submission_c (After Save)
- Condition: Status_c = Late
- Action: Create Task for Teacher
 - Subject: Review Late Submission
 - o WhoId: Student c
 - o OwnerId: Assignment r.OwnerId



Field Updates (via Flow)

❖ Mark Assignment Overdue

- Scheduled Flow → Daily
- Get Records: Assignment_c where Due_Date_c < TODAY() AND Status_c != Overdue
- **Update Records:** Set Status_c = Overdue



Custom Notifications

***** Notification Types Created:

- 1. Assignment_Due_Reminder → Channels: Desktop, Mobile
- 2. Late_Submission_Alert → Channels: Desktop, Mobile

Send Notifications via Flow:

- Scheduled Flow → Find Assignments due in 48 hours
- Action: Send Custom Notification → Recipient = Student_c