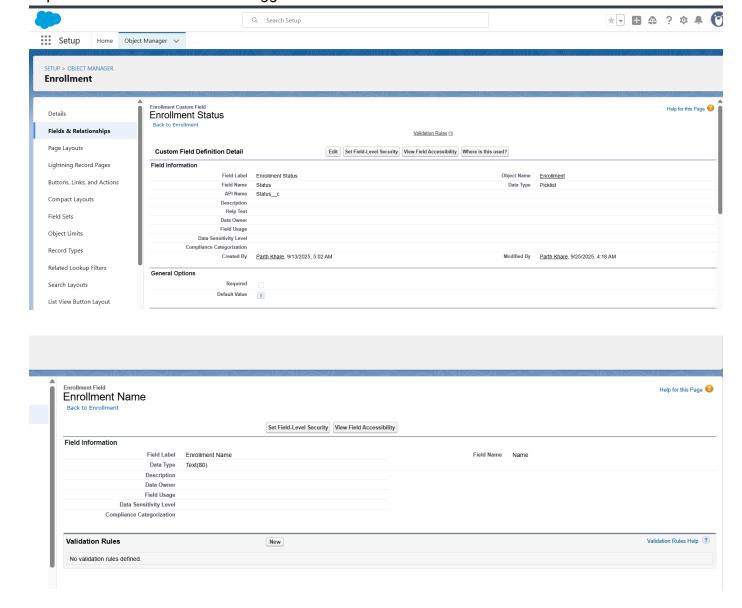
Phase 5: Data Management & Deployment

Project: EdTech Enrollment Automation | Author: Parth Khare

Data Management Strategy

1. Field Audit & Naming Consistency

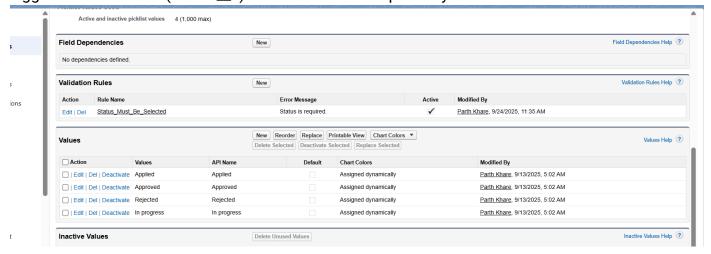
Reviewed all custom fields on Enrollment_c, Student_c, and Course_c Ensured consistent naming conventions (Enrollment_Status_c, Enrollment_Date_c) Added help text for admin usability and future maintenance Deprecated unused fields and flagged them for archival



2. Picklist Handling

Identified Status_c as a picklist field

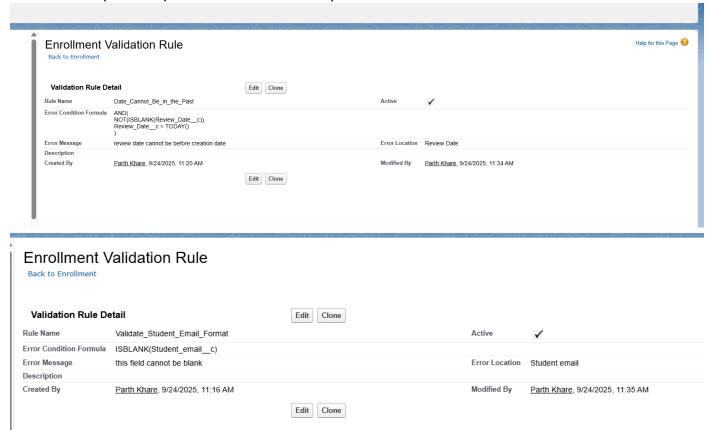
Used ISPICKVAL(Status_c, "Approved") in validation rules and Apex triggers Avoided TEXT(Status_c) due to formula compatibility issues



3. Validation Rule Optimization

Refactored Require_Status_Selection to: ISPICKVAL(Status__c, "") && NOT(ISNEW())

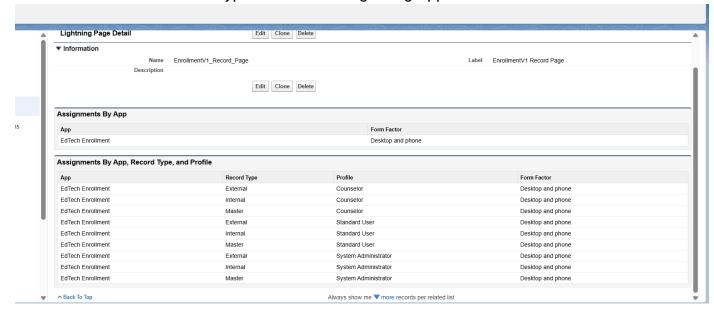
Prevented premature modal errors during record creation Documented picklist quirks and safe formula practices



4. Record Type Strategy

Confirmed use of "Internal" and "External" Record Types for Enrollment

Created formula fields (IsInternal_c, IsExternal_c) to support Lightning Page visibility filters Avoided direct Record Type filters due to Lightning App Builder limitations



5. Email Template Management

Migrated from Email Alerts to Send Email Actions for dynamic notifications Organized templates under "Enrollment Notifications" folder Enabled merge fields and conditional logic for personalized messaging

Deployment Strategy

1. Packaging & Metadata

Created Change Set with:

Flows: Enrollment Automation, Fault Logging

Apex Triggers: PreventFutureEnrollmentDate, AutoAssignEnrollmentOwner,

LogEnrollmentStatusChange

Custom Fields, Validation Rules, Email Templates Quick Actions and Lightning Page assignments

2. Pre-Deployment Checklist

Sandbox testing: simulated record creation, Flow triggers, Apex logic Profile & Permission Set review: ensured access to all fields and objects

Types 3. Post-Deployment Tasks

Created test Enrollment record to validate:

Flow execution Trigger logic Email delivery Status change logging

Monitored Enrollment_Log__c and Flow_Error_Log__c for 48 hours

Issue	Resolution	Notes
Validation rule firing on modal open	Added NOT(ISNEW())	Prevented UI block
Picklist field causing formula errors	Used ISPICKVAL()	Avoided TEXT() pitfalls
Blank screen on record creation	Set default value for Status_c	Ensured UI stability

Visibility filters failing	Used formula fields	Avoided Record Type limitations
Field renaming risk	Relabeled instead of renaming API name	Preserved Flow and Apex references