SkillSync - Phase 4: Process Automation(Admin)

Project Title: SkillSync- Knowledge and Expertise Management

Phase4: Process Automation

Date: 25 September 2025

Prepared By: SHARANYA LAKSHMI S N

1. Validation Rules

- Purpose: Ensure data accuracy and integrity before saving a record.
- Examples in SkillSync:
 - o Prevent saving an **Employee** without an email.
 - Ensure Learning Path Completion Date is filled only when status = Completed.
- Steps:
 - o Setup → Object Manager → Employee_c → Validation Rules → New.
 - Example Formula:
 - ISBLANK(Email_c)

Error Message: "Email address is required."

2. Flow Builder (Recommended modern automation tool)

Salesforce Flows provide multiple automation types:

a. Points Allocation (Record-Triggered Flow)

Goal: When an Engagement Log is created/updated to Completed, award points to the relevant Employee(s) and store Points_Awarded__c.

Build steps (exact clicks)

- 1. Setup → Quick Find → Flows → New Flow.
- 2. Choose **Record-Triggered Flow** → Click **Create**.
- 3. Configure Start:
 - Object: Engagement_Log__c
 - Trigger: A record is created or updated

- Condition Requirements: Status_c Equals Completed (optional: add AND Points_Awarded_c Is Null to prevent double awarding)
- o When to Run the Flow: After the record is saved
- Optimize the Flow for: Actions and Related Records
- Click Done.

4. Add a Decision Element

- Label: Check Engagement Type
- Outcome 1: Task Completion → Condition: {!\$Record.Type_c} Equals
 'Task Completion'
- Outcome 2: Mentorship Session → {!\$Record.Type_c} Equals 'Mentorship Session'
- Outcome 3: Learning Path Completion → {!\$Record.Type_c} Equals
 'Learning Path Completion'
- Default Outcome: No Action
- o Save.

5. For Task Completion outcome:

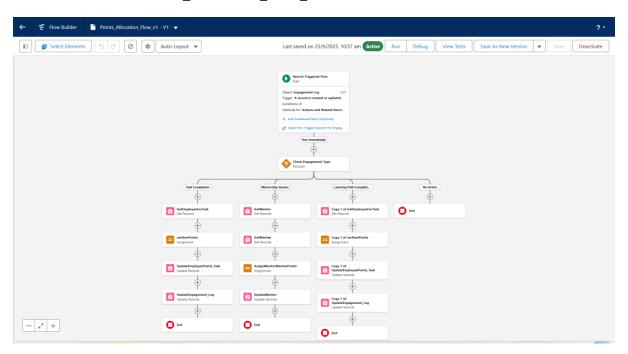
- Get Records: Name GetEmployeeForTask
 - Object: Employee__c
 - Filter: Id = {!\$Record.Employee__c}
 - Store all fields (or at least Points_c)
- Assignment: Create variable varNewPoints (Number) and set varNewPoints = GetEmployeeForTask.Points_c + 10
- Update Records: Name UpdateEmployeePoints_Task
 - Update the Employee record found by GetEmployeeForTask → set
 Points c = varNewPoints
- Update Records (optional): update the triggering Engagement_Log record
 → set Points_Awarded__c = 10
- Connect elements: Start → Decision outcome → Get → Assignment →
 Update Employee → Update Engagement Log.

6. For Mentorship Session outcome:

- Get Records GetMentor (Employee__c where Id = \$Record.Mentor__c)
- Get Records GetMentee (Employee_c where Id = \$Record.Mentee_c)
- Assignment: varMentorPoints = GetMentor.Points__c + 25 and varMenteePoints = GetMentee.Points__c + 15
- Update Records: Update Mentor record Points_c = varMentorPoints and Update Mentee record Points_c = varMenteePoints — you can do two separate Update Records elements or use a single Update with a collection.
- Update Engagement Log: set Points_Awarded__c = 25 (or store both mentor/mentee amounts in custom fields if needed).

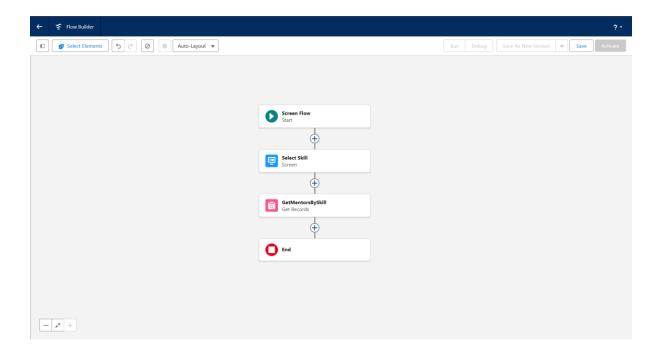
7. For Learning Path Completion outcome:

- Similar to Task: Get Employee → Assignment +30 → Update Employee →
 Update Engagement Log.
- 8. Save Flow: Points Allocation Flow v1 → Activate.



b) Screen Flow

- Used for guided UI experiences.
- Example: When an employee applies for a mentorship program, a guided form collects Mentor/Mentee details.

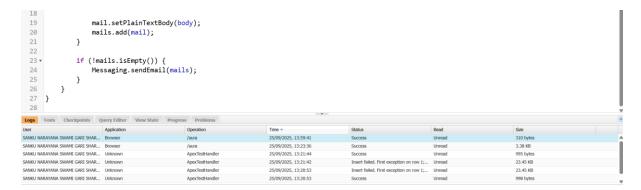


3. Email Alerts:

- Implemented via Apex Triggers
- In SkillSync, email triggers automatically notify employees when they are added with an active status.
- These triggers send welcome emails with login instructions, ensuring users can access the platform without delay.
- Implemented using Apex triggers and handler classes, the system ensures emails are sent only to active employees with valid roles.

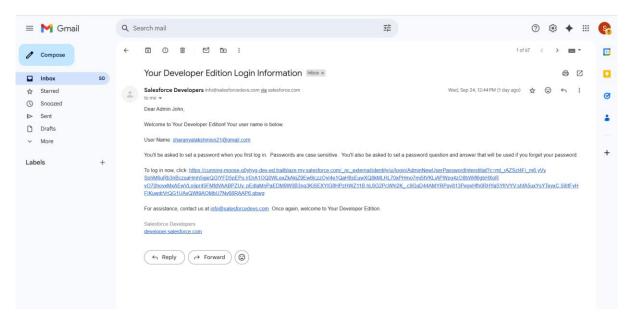
```
Conting-moose-(op/nyg-dev-edstmilloarsnysalesforce.com/_ul/common/apex/debug/Apex/SIRage

| Engloyer-olderInsertaput | EngloyerCamiltandicrapuc | EngloyerCa
```



Screenshot Suggestion:

Show a trigger sending email and the validation rule for email input in the object setup.



Optional:

Workflow Rules, Approval Process, Custom Notifications – Not required since all updates and notifications were handled via triggers and LWC actions.

Some workflows such as LearningPath and Mentorship Workflow are optional since all email alerts and points are handled by the record triggered flow.