# Sush@123

# DB and Salesforce POC

**Specification Document**

**Business Requirement:**

**A Product based company intends to sync its Legacy Database system having all Person details into Salesforce based on the Role.**

**In this Integration, Person data flows from Database system to Salesforce every 30 minutes. The initial value of the Flag field in the Person Table should be ‘new’.**

1. **If the Person – Role is *Employee,* the data should be updated in the Salesforce Employee Standard Object.**
2. **If the Person – Role is *User,* the data should be updated in the Salesforce User Standard Object.**
3. **Lastly, if the Person – Role is *Seller,* the data should be updated in the Salesforce Seller Standard Object.**
4. **After successfully sending the record to Salesforce, update the Database table Flag field to ‘moved’ and ModifiedDate field with the current timestamp.**

**Design a POC to demonstrate the following.**

**1. Choice condition.**

**2. Dataweave must include map, splitBy, if else conditions at least**

**3. VM connector to send data across multiple flow (no use of flow ref)**

**4. Object store to store and retrieve values.**

**5. Aggregator to aggregate the response.**

**6. Implementation of batch**

**7. Must have batch steps to sort success and failure records.**

**8. Email notification with all error details in case of errors. In case of success response should be sent back to source system.**

**9. RAML must have security and should demonstrate use of traits.**

**10. POC must be in running state and should be working during the demo. (in your local system)**

**Mapping Logic:**

1. **FullName field in Person Table should be sent as FirstName and LastName in the Salesforce Objects.**
2. **Date formatting in Database and Salesforce systems should be different.**
3. **Phone Number should be only 10 digits. Handle any scenario where it is either more or less digits.**
4. **FullName and PhoneNumber are mandatory fields. If any issue found with this data, break the flow and throw an exception.**
5. **For any other mandatory fields in Salesforce, if data not received from Database table then default them to some value.**

**Exception Handling:**

**If the record is not updated in Salesforce due to Data error, mark the Flag field in the Person Table to ‘error’. If the record is not updated to Salesforce in 1st attempt due to connectivity issues, attempt to resend the data at most 3 times. If even after 3 attempts the record is not sent to Salesforce, it should be picked up in the next run after 30 minutes.**

**API Led Architecture:**

**Follow the API Led Connectivity approach**

**API Specification:**

**Please create API Specifications where applicable**

**Munit Testing:**

**Complete Munit Testing with over 75% coverage for the APIs.**

**Structure of Person Table:**

**Table Name: Person**

**Fields:**

1. **FullName**
2. **Gender**
3. **Address**
4. **Phone**
5. **EmailId**
6. **DateOfBirth**
7. **Role**
8. **RoleType**
9. **StartDate**
10. **EndDate**
11. **Description**
12. **IdentificationNumber**
13. **Flag**
14. **ModifiedDate**

**Structure of Employee Object in Salesforce:**

**Fields:**

1. **AboutMe**
2. **AvailabilityStartDate**
3. **AvailabilityEndDate**
4. **DateOfBirth**
5. **Email**
6. **EmployeeNumber**
7. **EmployeeType**
8. **FirstName**
9. **Gender**
10. **HomeAddress**
11. **HomePhone**
12. **LastName**

**Structure of User Object in Salesforce:**

**Fields:**

1. **ContactId**
2. **Department**
3. **Email**
4. **FirstName**
5. **LastName**
6. **MobilePhone**

**Structure of Seller Object in Salesforce:**

**Fields:**

1. **Name**
2. **SellerType**
3. **ActiveFromDate**
4. **ActiveToDate**

**POC Evaluation Criteria:**

1. **API Deployment (Assessment based on successful deployment and accessibility of APIs.) – 5 Marks**
2. **Implementation Accuracy (Evaluation of whether the POC meets all specified requirements and functions as intended.) – 5 Marks**
3. **Detailed Explanation (Assessment of the clarity, depth, and completeness of the explanation provided for the POC.) – 10 Marks**

**\*\*The use of ChatGPT or any other AI tools is strictly discouraged. Any substantiated instance of such usage will result in the invalidation of the POC Validation process\*\***

[**https://login.salesforce.com/services/Soap/u/61.0**](https://login.salesforce.com/services/Soap/u/61.0)

**{**

**"empName": "Rishika",**

**"age": 30,**

**"phoneNo": "9876543210",**

**"primarySkill": "Java",**

**"address": "Bangalore"**

**}**

**KUrWZmso3gDqDTY1f8qRngJD**

**{**

**"FirstName": "Tanish",**

**"LastName": "Desai",**

**"Email": "manish@example.com",**

**"Gender": "Male",**

**"DateOfBirth": "1990-01-01",**

**"AvailabilityStartDate": "2024-01-01",**

**"AvailabilityEndDate": "2025-01-01",**

**"EmployeeNumber": "EMP101",**

**"EmployeeType": "Full-Time",**

**"HomePhone": "9876543210",**

**"HomeAddress": "Bangalore",**

**"AboutMe": "Test employee"**

**}**

**{**

**"FirstName": "Anu",**

**"LastName": "Kumar",**

**"Email": "anu.kumar@example.com",**

**"Department": "Marketing",**

**"MobilePhone": "9876543210"**

**“ContactId”:”USR500”**

**}**

**{**

**"Name": "BestSeller Corp",**

**"SellerType": "Online",**

**"ActiveFromDate": "2025-06-01",**

**"ActiveToDate": "2025-12-31"**

**}**