



Project Document

Automating Data Population in ServiceNow Streamlining Program Management

1. Project Overview

This project is focused on implementing an automated **data lookup mechanism** in ServiceNow to streamline field population in the "Program" table. The primary challenge addressed is the manual and error-prone entry of "Trainer" values based on the "Technology" and "Tracker" fields. By leveraging ServiceNow's **Data Lookup Definitions** and related functionalities, this solution aims to improve **data accuracy, reduce operational overhead, and enhance user experience** for IT administrators managing programs.

2. Objectives

Business Goals

- **Automation:** Eliminate manual data entry errors in the "**Program**" table.
- Efficiency: Save time for administrators by automating field population.
- Accuracy: Ensure consistent and reliable data across the system.

Specific Outcomes

- Automatically populate the "Trainer" field in the "Program" table based on predefined mappings in the "Testing Lookups" table.
- Seamless integration of data lookup into the existing workflows.

3. Key Features and Concepts Utilized

Tables and Fields:

- Custom "**Program**" table with fields: Technology, Tracker, Trainer.
- "Testing Lookups" table with corresponding fields to provide predefined mappings.

Data Lookup Definitions:

Configure a Data Lookup Definition to fetch the trainer's value based on "Technology" and "Tracker."

Applications:

Leverage ServiceNow's platform capabilities to implement the solution without additional

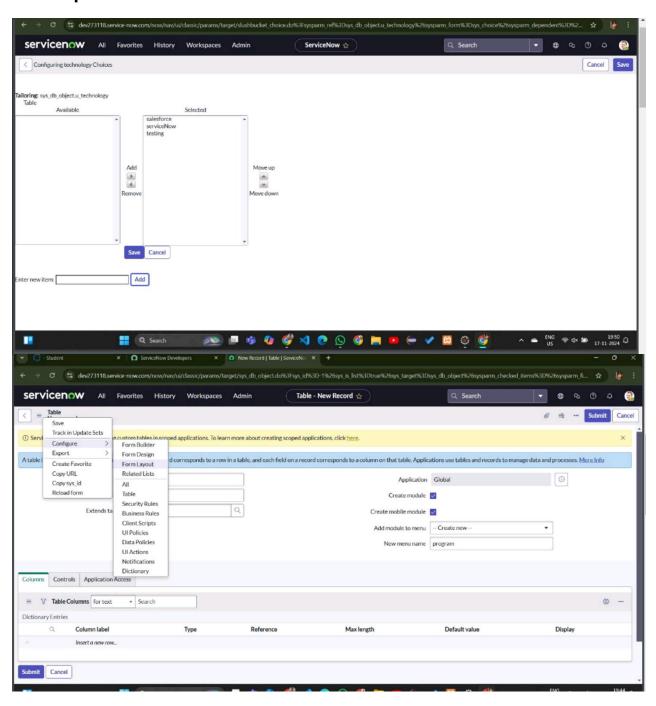


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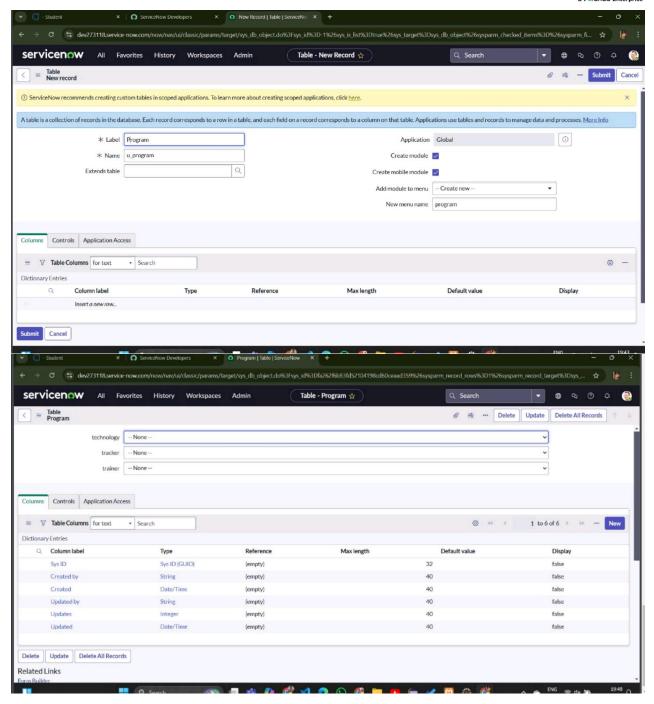
4. Detailed Steps to Solution Design

Step 1: Create Table





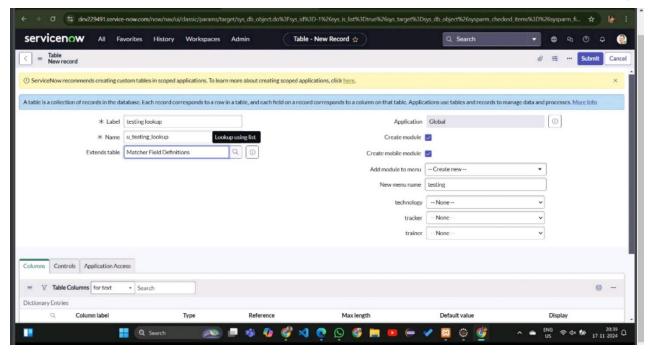




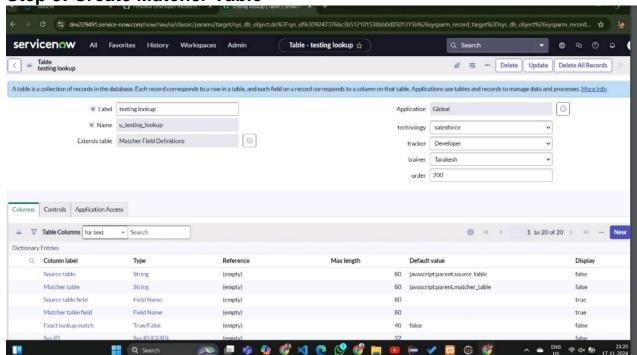
Step 2: Create Testing Lookup





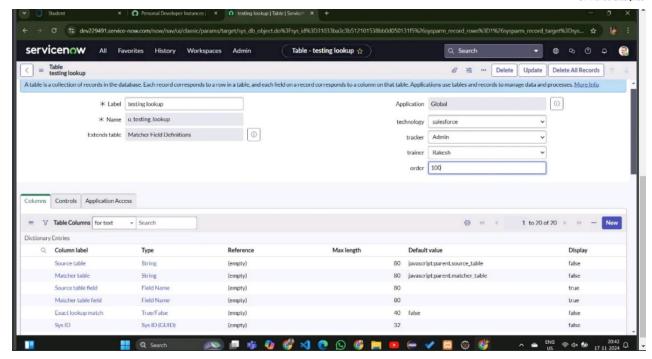


Step 3: Create Matcher Table

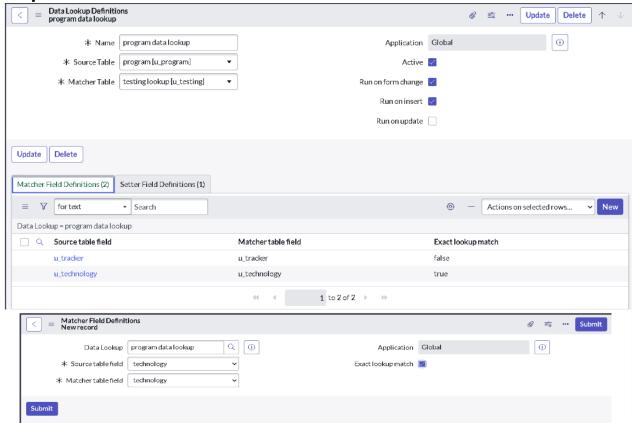








Step 4: Create Automation



5. Testing and Validation

Testing Approach

• Unit Testing: Validate each field mapping in the "Testing Lookups" table to ensure accurate trainer population.





- **Integration Testing:** Test the interaction between **"Program"** and **"Testing Lookups"** tables for data consistency.
- **User Interface Testing:** Ensure the automatic population mechanism is reflected correctly in the ServiceNow interface.

6. Key Scenarios Addressed by ServiceNow in the Implementation Project

Scenario 1:

An IT administrator enters a **"Technology**" and **"Tracker"** combination in the **"Program"** table, and the **"Trainer"** field is automatically populated.

Scenario 2:

Updates to the **"Testing Lookups"** table reflect instantly in subsequent entries in the **"Program"** table.

Scenario 3:

Validation ensures that any missing or incorrect combinations in the **"Testing Lookups"** table prompt a notification.

7. Conclusion

Summary of Achievements:

- Implemented an automated data lookup mechanism in ServiceNow, reducing errors and administrative effort.
- Enhanced data reliability and ensured adherence to predefined mappings.
- Delivered a user-friendly solution that integrates seamlessly into the existing ServiceNow environment.