# **Educational Organisation Using ServiceNow**

## **Objective / Abstract:**

The Educational Organisation Using ServiceNow project focuses on automating and simplifying the administrative and academic management processes within educational institutions. This system leverages the **ServiceNow low-code development platform** to manage student admissions, maintain teacher and student records, and track academic progress efficiently. It aims to minimize manual effort and errors by providing dynamic forms, process automation, and client scripts that streamline operations. The project ensures data consistency, real-time updates, and structured record handling, thereby improving transparency and productivity across the educational environment.

## **Technologies Used:**

- ServiceNow Platform (Low-Code Development Environment)
- JavaScript (for Client Scripts)
- ServiceNow Tables, Forms, and Modules
- Process Flow Designer
- Update Sets and Form Layout Configuration

## **Modules or Features:**

#### Salesforce Table

- Core table designed to store student and admission data.
- Includes key columns such as Admin Number, Grade, and Student Information.
- Dynamic default values and choice fields for improved usability.

#### Admission Table

- Extends from the Salesforce table to handle admission processes.
- Includes fields like Admission Number, Admin Date, Grade, Student Name,
  Parent Details, and Admission Status.
- Choice fields defined for Pincode, Purpose of Join, School, and Area.

## Student Progress Table

- Manages academic progress and subject scores.
- Automatically calculates total marks, percentage, and result status (Pass/Fail).
- Integrated with client scripts for automation and data validation.

## • Process Flow for Admission

- Defines a complete workflow from New → In Progress → Joined → Rejected
  → Rejoined → Closed → Cancelled.
- Automates stage transitions for better tracking.

#### • Client Scripts for Automation

- Auto Populate Script: Automatically fills in student details in the Admission
  Table based on the Admission Number.
- Pincode Update Script: Updates Mandal, City, and District fields based on entered Pincode.
- **Disable Fields Script**: Restricts editing for calculated fields (Total, Percentage, Result) in Student Progress Table.
- **Total Update Script**: Calculates the total marks dynamically as subjects are filled.
- **Percentage Script**: Computes percentage based on total marks.
- **Result Script**: Displays Pass/Fail result depending on the calculated percentage.

# **System Architecture / Workflow:**

## Setup Phase

- Request a personal developer instance from developer.servicenow.com.
- Configure and log in to the ServiceNow instance.
- Create an Update Set and make it current for tracking all customizations.

## Database Configuration

- Create the Salesforce table and extend it for Admissions and Student Progress.
- Define fields, data types, and enable extensibility.
- Configure choice fields for flexibility in dropdown data selection.

## Form and Layout Design

- Use Form Design and Layout configuration to structure the form views.
- Set dynamic defaults using "Get Next Padded Number" for Admin Numbers.
- Maintain clear data grouping for readability.

## Workflow Management

- Create Process Flow with distinct states for Admission tracking.
- Assign order and transitions to ensure proper record movement.

## Automation through Client Scripts

- Develop JavaScript-based scripts for automatic field updates, validations, and calculations.
- Enable Isolate Script to ensure script security.

## Testing and Validation

- Test all workflows, scripts, and field behaviors.
- Ensure data consistency and correctness of automated updates.

## **Results / Screenshots:**

The final system successfully automates the core administrative operations of educational management within ServiceNow.

It ensures that student admission, data entry, and academic progress are handled efficiently and with minimal









