SRI VIDYA COLLEGE OF ENGINEERING & TECHNOLOGY

VIRUDHUNAGAR 626005

Approved by AICTE, New Delhi and Affiliated to

Anna University, Chennai

Subject Name : ServiceNow Administator (NM1051)

(Under Naan Mudhalvan Scheme)

Project Title : School Organizations Using ServiceNow

Team ID : NM2025MID04738

Team Members

P. Mathi Vadhana Sri - 922022104021

T.Ishwarya Maya -922022104009

V. Pranesh Sundar -922022104026

K. Mahesh -922022104014

School Organizations Using ServiceNow

---

1. Objective

The main objective of this project is to To design and implement a **School Organization Management System** using **ServiceNow** that streamlines the management of academic departments, staff, students, and events by automating workflows, improving record tracking, and enabling communication within the school ecosystem.

---

2. Introduction

The *School Organization Management System* in ServiceNow is designed to simplify and automate the administrative processes within educational institutions. It provides a centralized platform to manage students, teachers, departments, and events efficiently. By leveraging ServiceNow's low-code development environment, the system enables schools to handle tasks such as admissions, attendance, leave approvals, and event scheduling through automated workflows. This not only reduces manual effort but also ensures transparency, accuracy, and faster communication among staff and students. The project aims to enhance operational efficiency and support better decision-making through real-time data access and reporting tools.

---

3. Project Scope

- Development of tables for Students, Teachers, Classes, Departments, and Events.
- Implementation of dashboards and reports for monitoring academic and administrative data
- Ensuring data consistency, security, and through ServiceNow's low-code platform.

---

5. Tools and Technologies Used

Tool/Technology	Description
ServiceNow	Cloud platform for workflow automation
Workflow Editor	To capture and move customizations
Tables & Fields	Used to store expense records
Forms & Lists	For user interaction and record display
Reports Module	For data visualization and analytics
Browser	Any modern browser (Chrome/Edge)

---

6. System Requirements

Hardware Requirements

- Processor: Dual Core or higher
- RAM: Minimum 4 GB

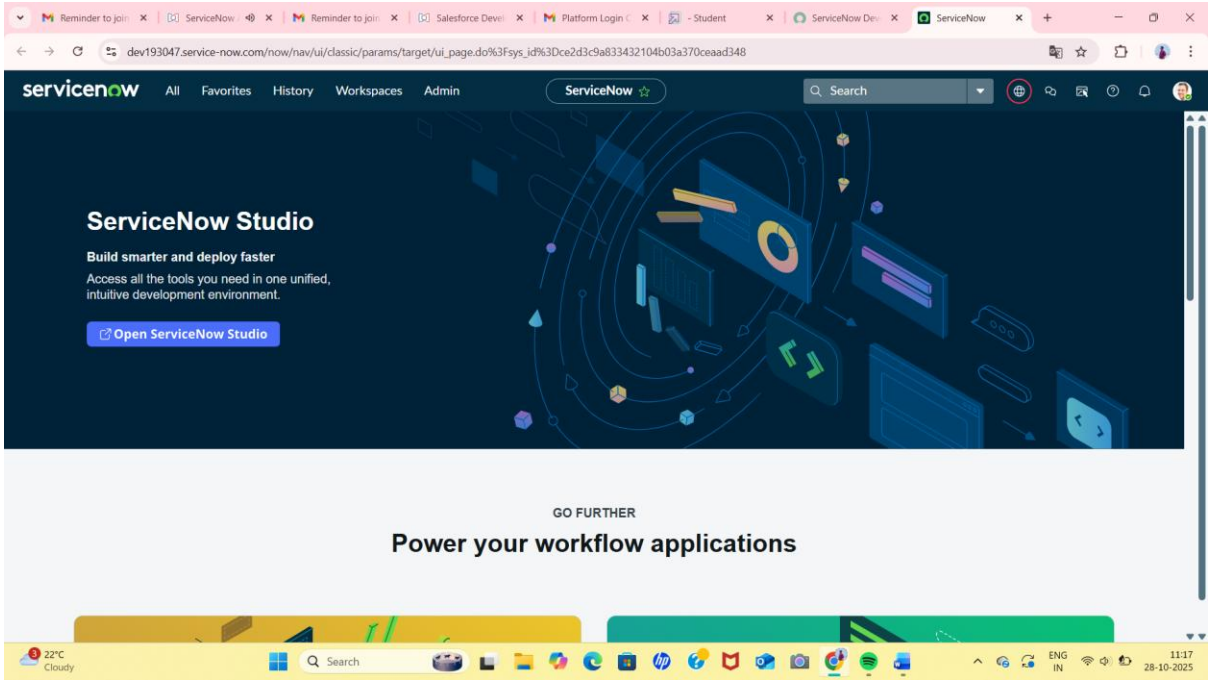
Software Requirements

- Web Browser (Google Chrome preferred)
- ServiceNow Developer Instance
- ServiceNow Account (developer.servicenow.com)
- ---

7. Project Implementation Steps

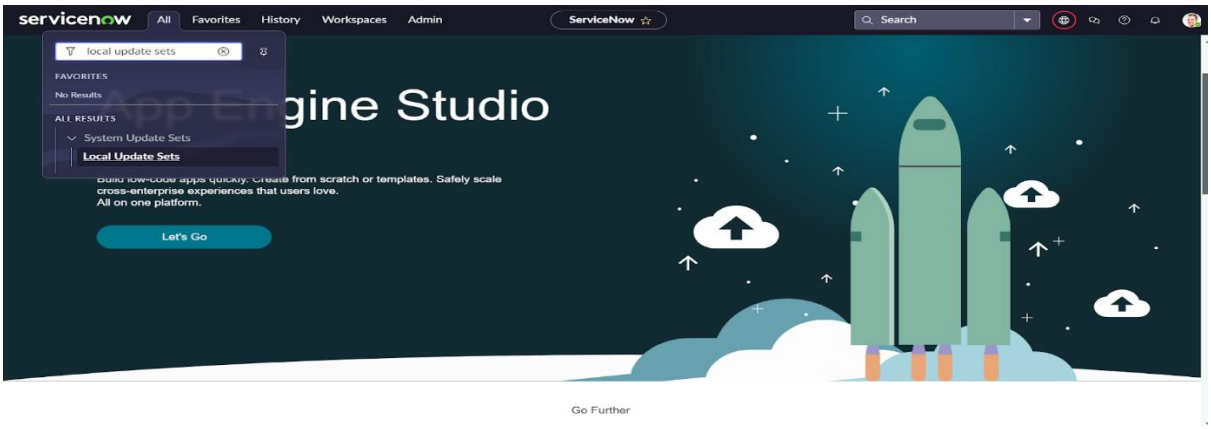
Step 1: Setting up ServiceNow Instance

1. Visit https://developer.servicenow.com
2. Sign up for a free developer account.
3. Log in to your instance to start customizing.

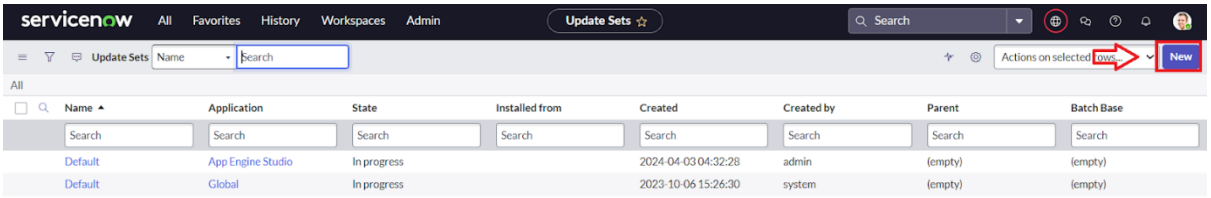


Step 2: Creating an Update Set in ServiceNow

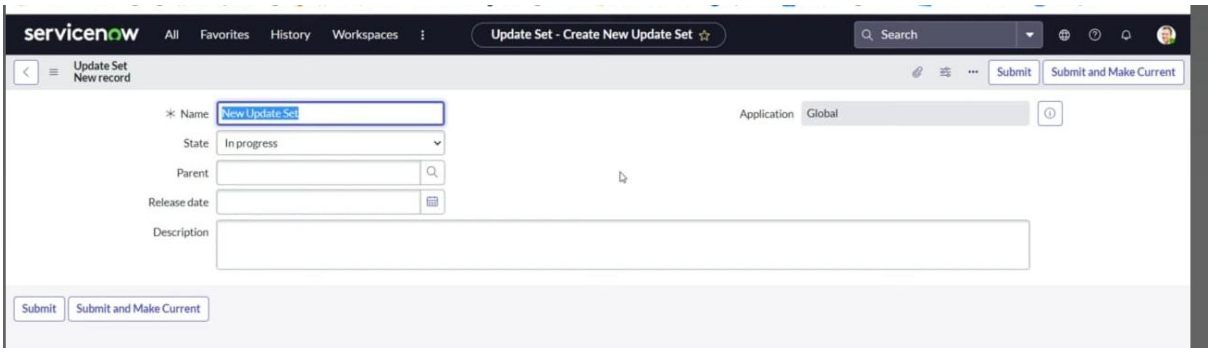
1. Navigate to **All → Local Update Sets** from the Application Navigator.



2.Click on the **New** button to create a new update set.



3.In the form, enter the **Name** as *Educational Organisation*.



4.Click **Submit** to save the update set

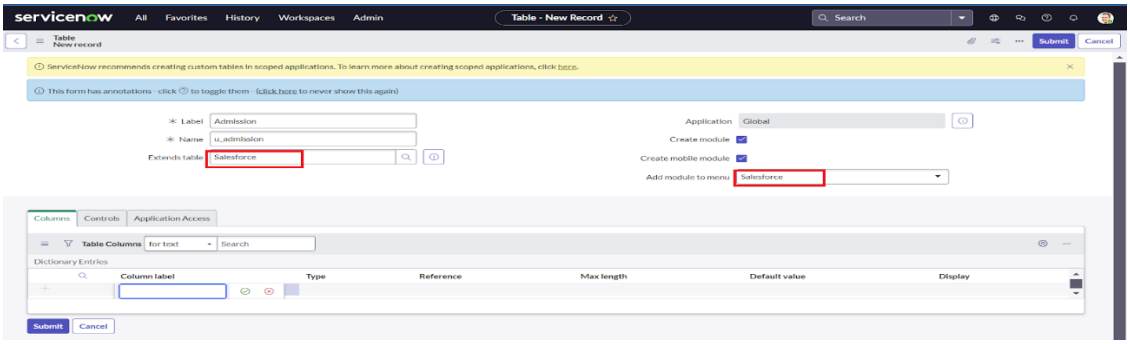
5.After submission, click **Make Current** to set it as the active update set.

Step 3: Creating Salesforce Table in ServiceNow

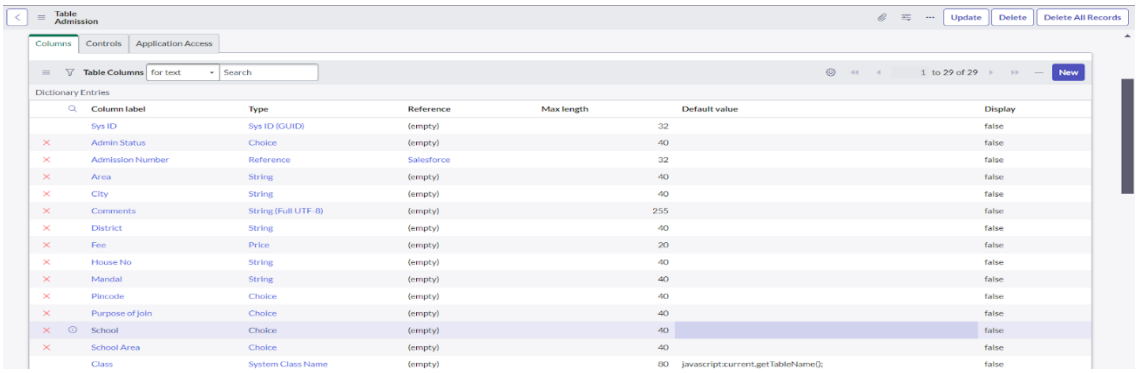
1. Navigate to **All → Tables** from the Application Navigator.
2. Click on the **New** button to create a new table.
3. In the form, enter the **Label** as *Salesforce* and click on the **Name** field — the system will automatically generate the API name.
4. Create the required **columns** by double-clicking on the *Column label* area, entering the label names, selecting the appropriate data **Type**, and clicking the **tick mark** to save each column.
5. For the column **"Admin Number"**, set **Display = True** and then **right-click on the header bar → Save** the table.
6. Go to **Controls** and **Enable Extensible** to allow other tables to extend this table.
7. Open the **"Admin Number"** column → scroll to **Related Links → Advanced View** → under **Default Value**, enable **Use dynamic default** and select **Get Next Padded Number**. Then click **Update** to save changes.
8. For the **"Grade"** column, open **Choices**, and enter the **Label, Value, and Sequence** as per the given data.

Step 4: Creating Admission Table in ServiceNow

1. Navigate to **All → Tables** and click on the **New** button to create a new table.
2. Enter the **Label** as *Admission* to represent the admission details of students.
3. Under the **Extends Table** field, select **Salesforce** to inherit its structure and functionalities.
4. Check the option **Add module to menu → Salesforce** to make the Admission table accessible under the Salesforce application menu.



5. Create all the required **fields (columns)** as per the project specifications, assigning appropriate **field types** such as String, Choice, Integer, or Reference.



6. For each field that requires fixed options, define **Choice values** as follows:
    - **Admin Status:** Pending, Approved, Rejected
    - **Pincode:** (Add appropriate pincode values relevant to the school location)
    - **Purpose of Join:** Admission, Transfer, Scholarship, Others
    - **School:** Primary School, High School, Higher Secondary
    - **School Area:** Urban, Rural, Suburban
7. After defining all fields and choices, click **Submit** to save the table.

Step 5: Creating Student Progress Table in ServiceNow

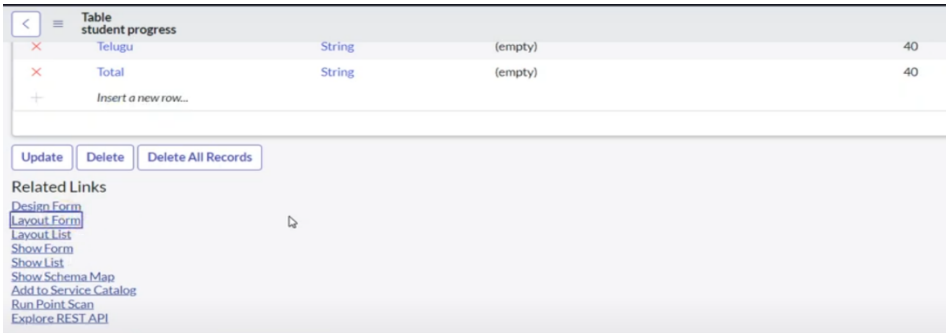
1. Navigate to **All → Tables** and click on the **New** button to create a new table.
2. Enter the **Label** as *Student Progress* to represent the academic performance details of students.
3. Under **Add module to menu**, select **Salesforce** to make this table accessible from the Salesforce application menu.
4. Create all required **fields (columns)** as per the project requirements, such as:
    - **Student Name** – Reference field (linked to Admission Table)
    - **Subject** – String or Choice field
    - **Marks Obtained** – Integer or Number field
    - **Total Marks** – Integer field
    - **Percentage** – Decimal field
    - **Grade** – Choice field (e.g., A, B, C, D, F)
    - **Remarks** – String field for teacher feedback

×	Admission Number	Reference	Salesforce	32	false
×	English	String	(empty)	40	false
×	Hindi	String	(empty)	40	false
×	Maths	String	(empty)	40	false
×	Percentage	String	(empty)	40	false
×	Result	String	(empty)	40	false
×	Science	String	(empty)	40	false
×	Social	String	(empty)	40	false
×	Telugu	String	(empty)	40	false
×	Total	String	(empty)	40	false
	Insert a new row...				

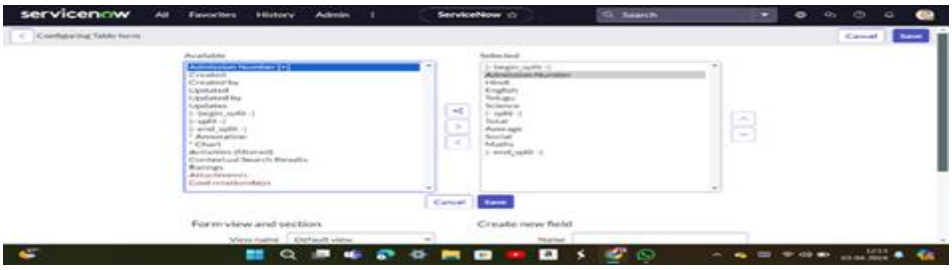
5. Save the table once all columns are created and verified.

Step 6: Configuring Table Form for Student Progress Table

1. Open the **Student Progress Table** and click on **Layout Form**.



2. Click the **Admission Number [+]** option.

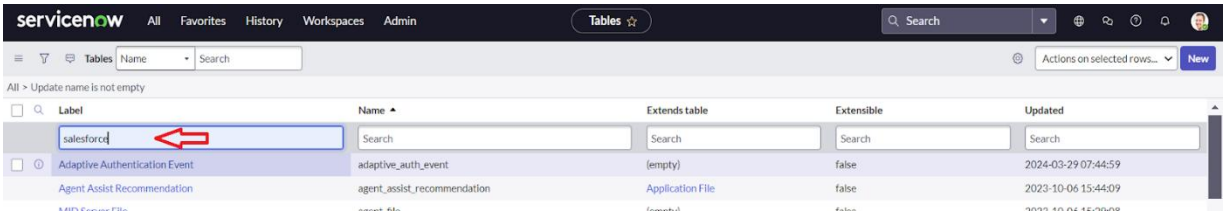


3. From the **Available** list, select the required **Admission Number fields** and move them to the **Selected** side.

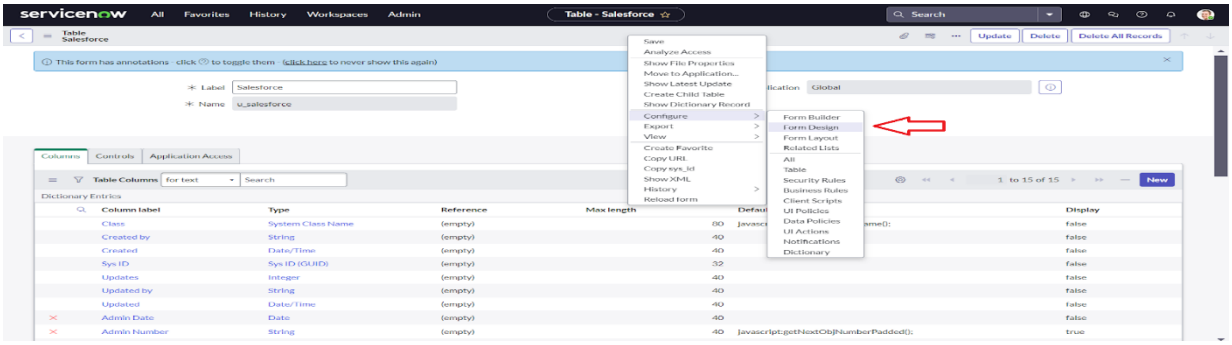
4. Click **Save** to apply the changes.

Step 7: Creating Form Design for Salesforce Table

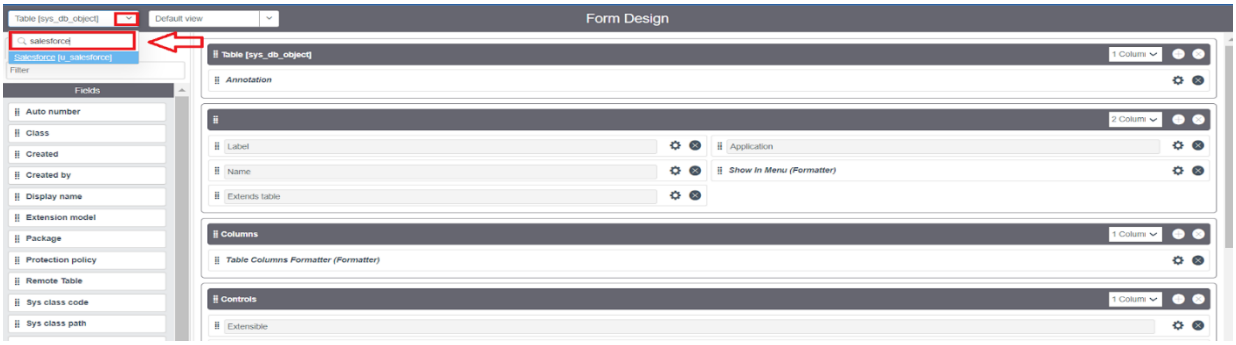
1. Navigate to **All → System Definition → Tables**.



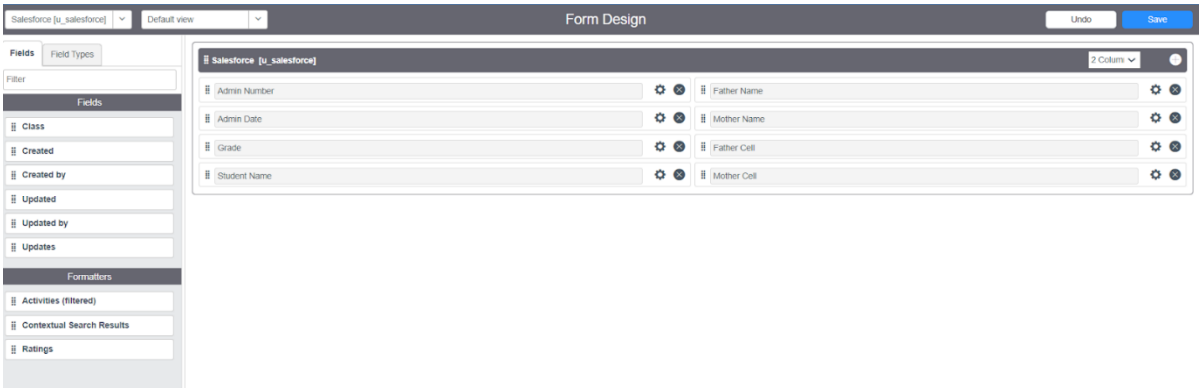
2. Search for **Salesforce** in the Label field and open it.



3. Right-click the header bar and select **Configure → Form Design**.



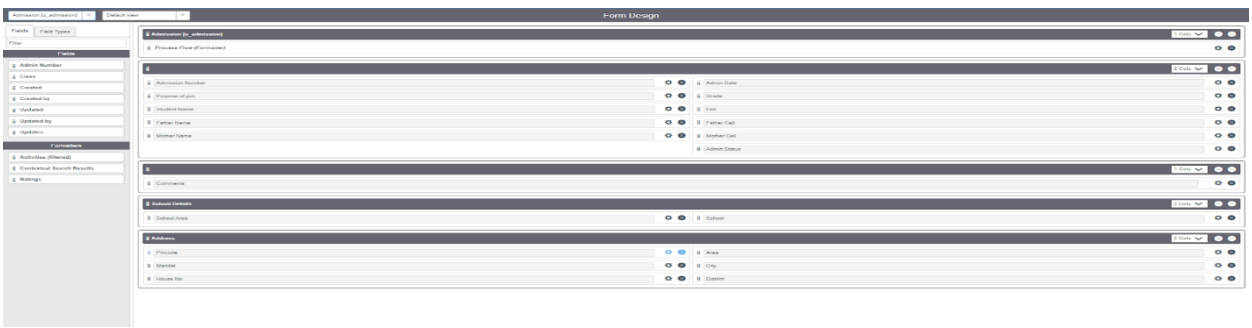
4. In the dropdown, choose **Salesforce (u_salesforce)**.
5. **Drag and drop** the required fields to arrange them in the desired layout.



6. Click **Save** to apply the form design changes.

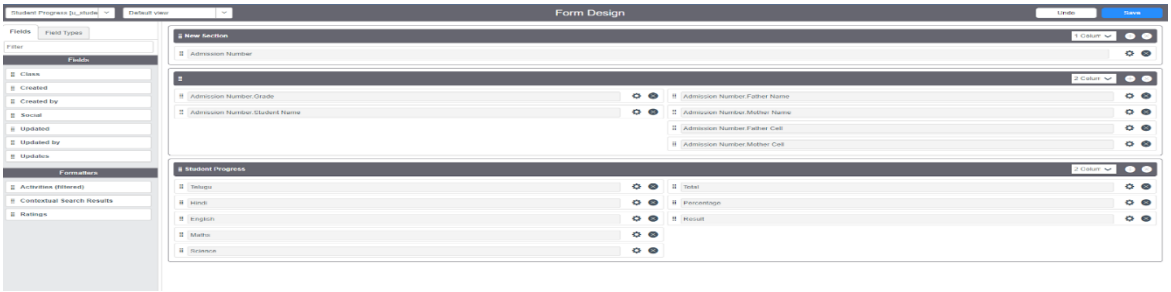
Step 8: Creating Form Design for Admission Table

1. Follow the same steps as in **Activity 1 (Salesforce Form Design)**.
2. Open the **Admission Table** and navigate to **Configure → Form Design**.
3. Arrange and configure the required fields in the desired order on the form.
4. Click **Save** to apply and update the layout.



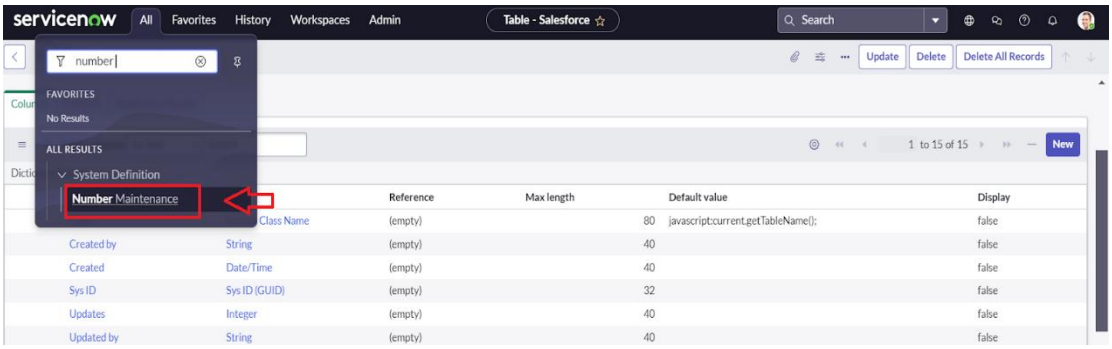
Step 9: Creating Form Design for Student Progress Table

1. Follow the same procedure as in **Activity 1 (Salesforce Form Design)**.
2. Open the **Student Progress Table** and go to **Configure → Form Design**.
3. Arrange and configure all required fields in the appropriate order on the form.
4. Click **Save** to finalize and apply the design.

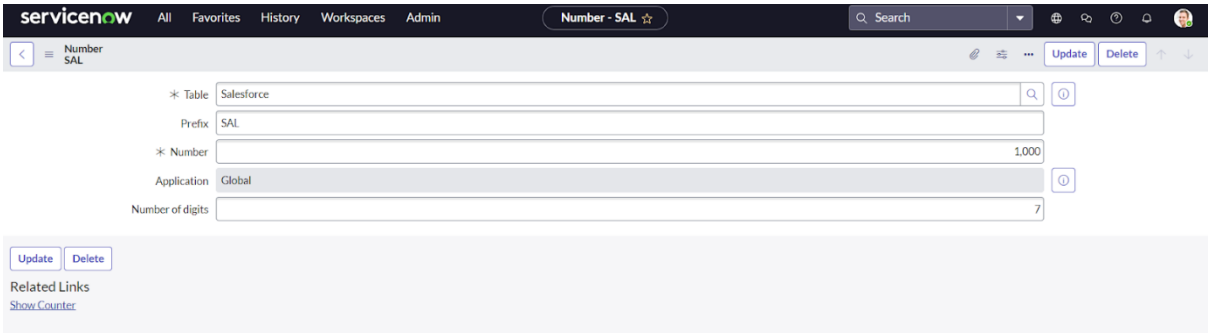


Step 10: Creating Number Maintenance for Admin Number

1. Navigate to **All → Number Maintenance → New**.

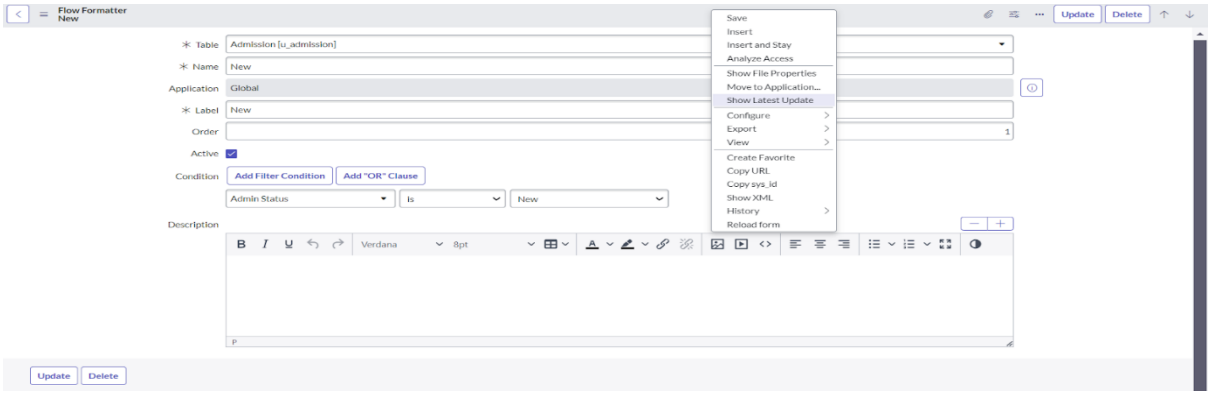


2. Fill in the required details for **Admin Number**.
3. Click **Submit** to save the record.

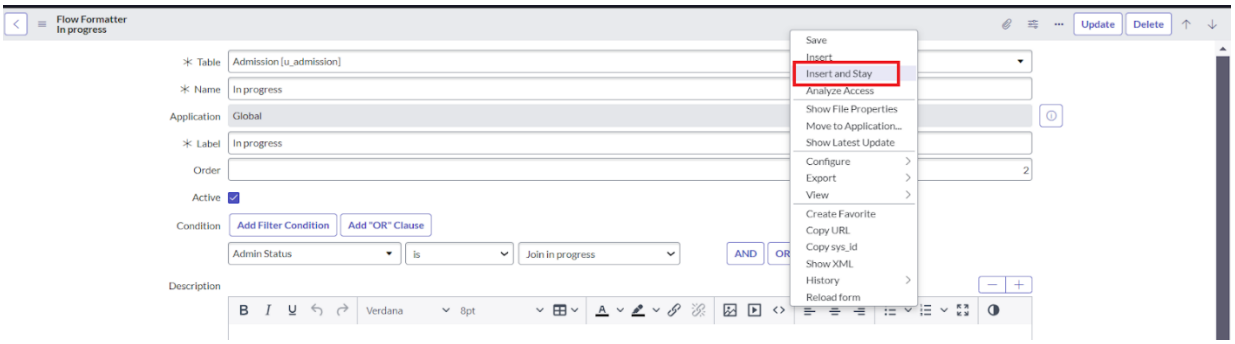


Step 11: Creating Process Flow for Admission Table

1. Navigate to **All → Process Flow → New**.



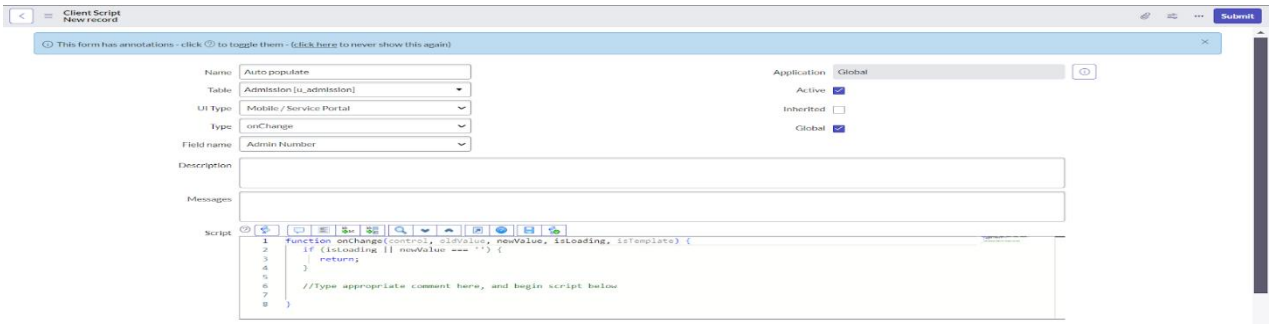
2. Enter the required details for the **Admission Table** process.
3. Right-click on the header bar and select **Save**.
4. Replace the **Name** and **Label** fields as instructed, then click **Insert and Stay**.



5. Add and arrange the flow stages in the following order:
   New → In Progress → Joined → Rejected → Rejoined → Closed → Cancelled.

Step 12: Creating "Auto Populate" Client Script for Admission Table

1. Navigate to **All → Client Scripts → New**.
2. Fill in the required details such as **Name, Table (Admission), and Type (onChange)**.



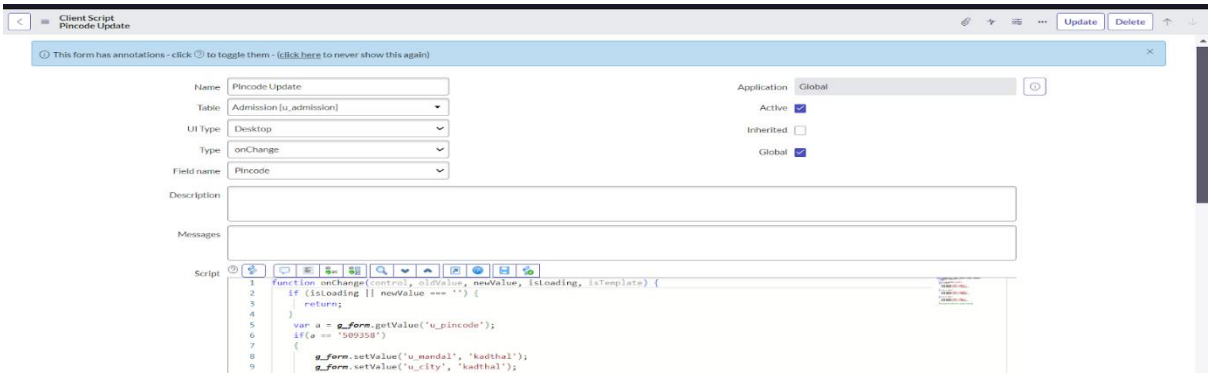
3. Enter the provided JavaScript code in the script editor.

```
function onChange(control, oldValue, newValue, isLoading, isTemplate) {
  if (isLoading || newValue === '') {
    return;
  }

  //Type appropriate comment here, and begin script below
  var a = g_form.getReference('u_admission_number');
  g_form.setValue('u_admin_date',a.u_admin_date);
  g_form.setValue('u_grade',a.u_grade);
  g_form.setValue('u_student_name',a.u_student_name);
  g_form.setValue('u_father_name',a.u_father_name);
  g_form.setValue('u_mother_name',a.u_mother_name);
  g_form.setValue('u_father_cell',a.u_father_cell);
  g_form.setValue('u_mother_cell',a.u_mother_cell);

  g_form.setDisabled('u_admin_date',a.u_admin_date);
  g_form.setDisabled('u_grade',a.u_grade);
  g_form.setDisabled('u_student_name',a.u_student_name);
  g_form.setDisabled('u_father_name',a.u_father_name);
  g_form.setDisabled('u_mother_name',a.u_mother_name);
  g_form.setDisabled('u_father_cell',a.u_father_cell);
  g_form.setDisabled('u_mother_cell',a.u_mother_cell);
}
```

4. Enable **Isolate Script** to ensure secure script execution.
5. Click **Save** to apply the client script.
6. Ensure that the **field names** used in the script match exactly with the fields created in the Admission Table.

Step 13: Creating “Pincode Update” Client Script for Admission Table

1. Navigate to **All → Client Scripts → New**.
2. Fill in the required details such as **Name, Table (Admission), and Type (onChange)**.



- Write the Code as below, Enable Isolate script and Save.

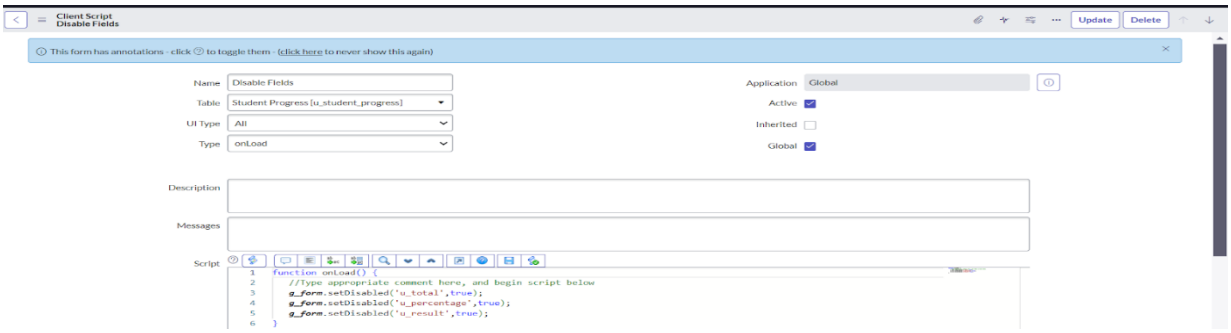
```
function onChange(control, oldValue, newValue, isLoading, isTemplate) {
    if (isLoading || newValue === '') {
        return;
    }
    var a = g_form.getValue('u_pincode');
    if(a == '509358')
    {
        g_form.setValue('u_mandal', 'kadthal');
        g_form.setValue('u_city', 'kadthal');
        g_form.setValue('u_district', 'RangaReddy');


    }
    else if(a == '500081')
    {
        g_form.setValue('u_mandal', 'karmanghat');
        g_form.setValue('u_city', 'karmanghat');
        g_form.setValue('u_district', 'RangaReddy');
```

```
    }
 else if(a == '500079')
{
 g_form.setValue('u_mandal', 'Abids');
g_form.setValue('u_city', 'AsifNagar');
g_form.setValue('u_district', 'Hyderabad');
}
```

```
  //Type appropriate comment here, and begin script below


}
```

Step 14: Creating "Disable Fields" Client Script for Student Progress Table

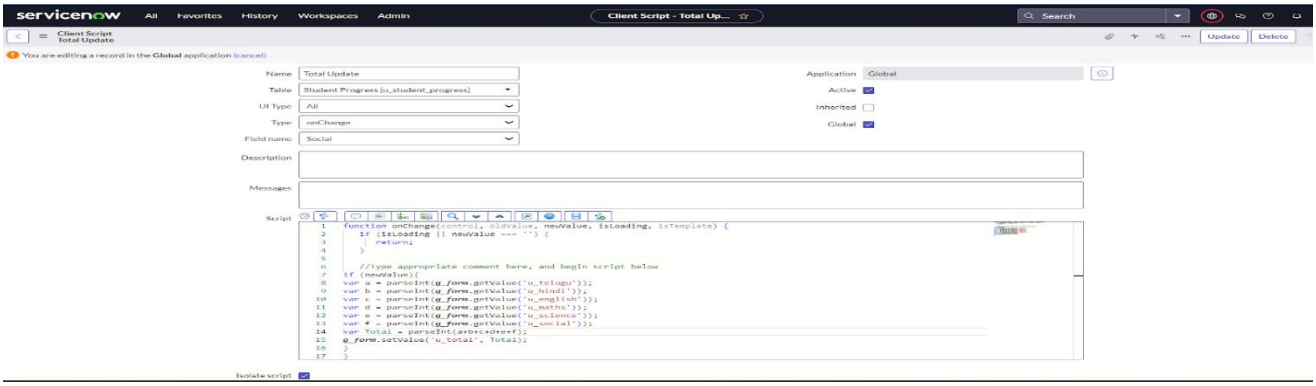
1. Navigate to **All → Client Scripts → New**.



2. Enter the required details such as **Name, Table (Student Progress), and Type (onLoad)**.
3. Copy and paste the given JavaScript code into the script editor.
4. Enable **Isolate Script** for secure execution.
5. Click **Save** to apply the client script.

Step 15: Creating "Total Update" Client Script for Student Progress Table

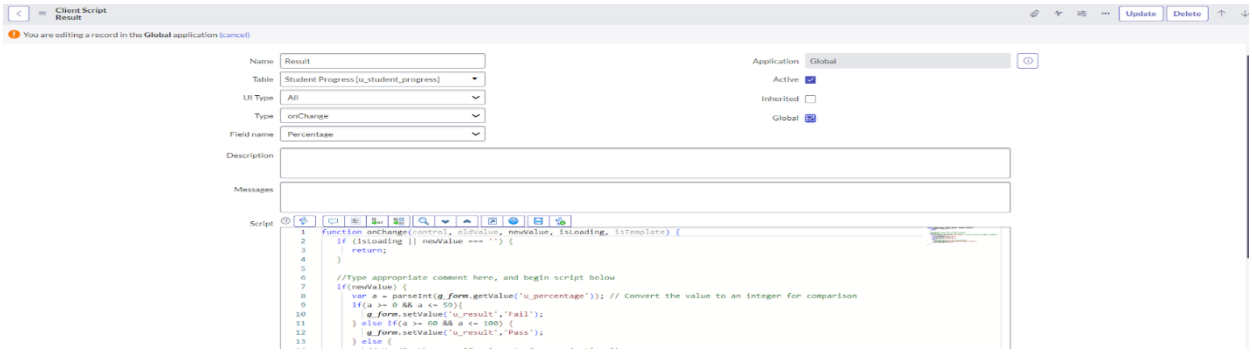
1. Navigate to **All → Client Scripts → New**.



2. Enter the details such as **Name, Table (Student Progress), and Type (onChange)**.
3. Paste the given JavaScript code into the script editor.
4. Enable **Isolate Script** for secure execution.
5. Click **Save** to apply the client script.

Step 16: Creating "Result" Client Script for Student Progress Table

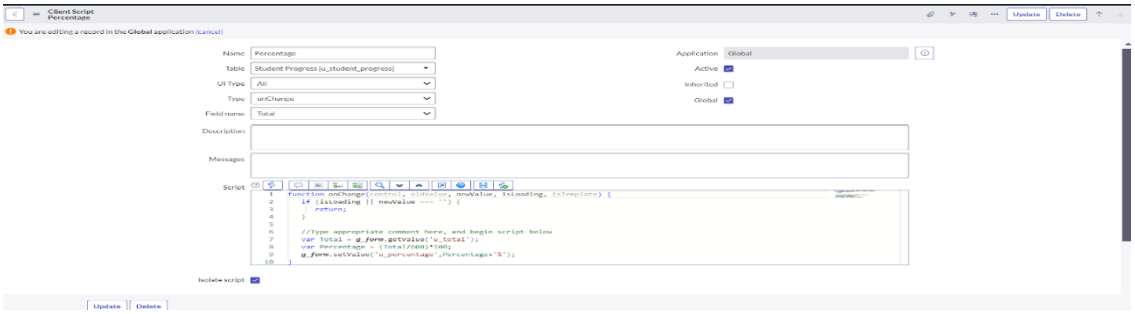
1. Navigate to **All → Client Scripts → New**.



2. Enter the required details such as **Name, Table (Student Progress), and Type (onChange)**.
3. Copy and paste the provided JavaScript code into the script editor.
4. Enable **Isolate Script** to ensure safe execution.
5. Click **Save** to apply the client script.

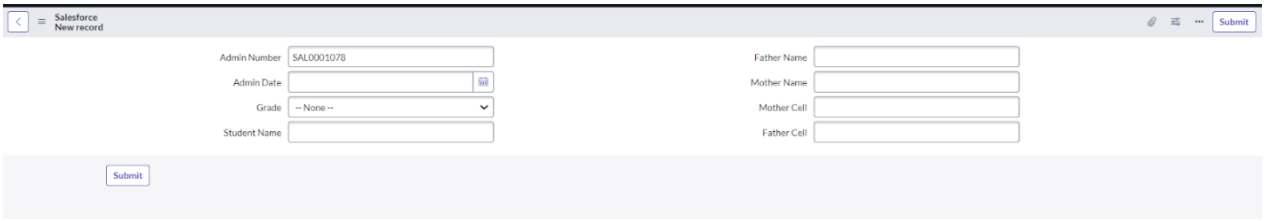
Step 17: Creating "Percentage" Client Script for Student Progress Table

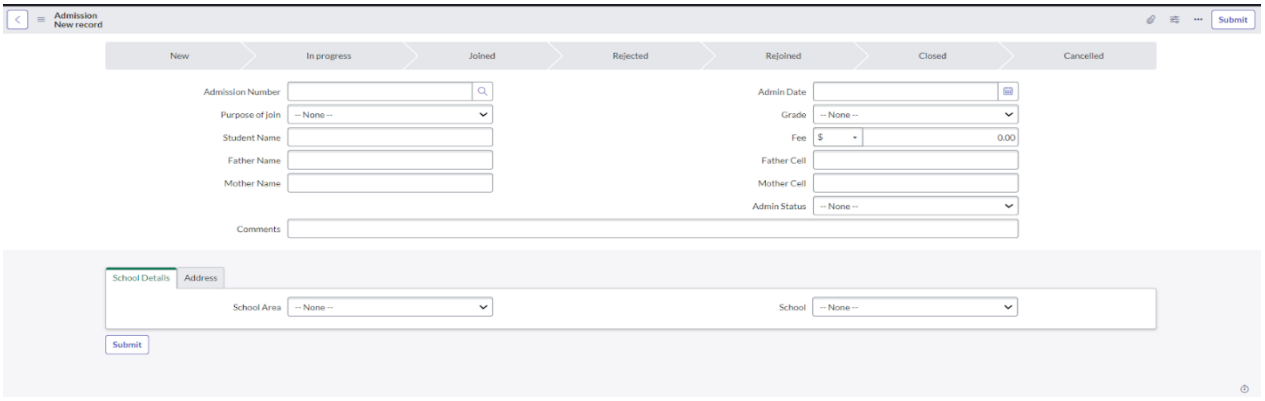
1. Navigate to **All → Client Scripts → New**.

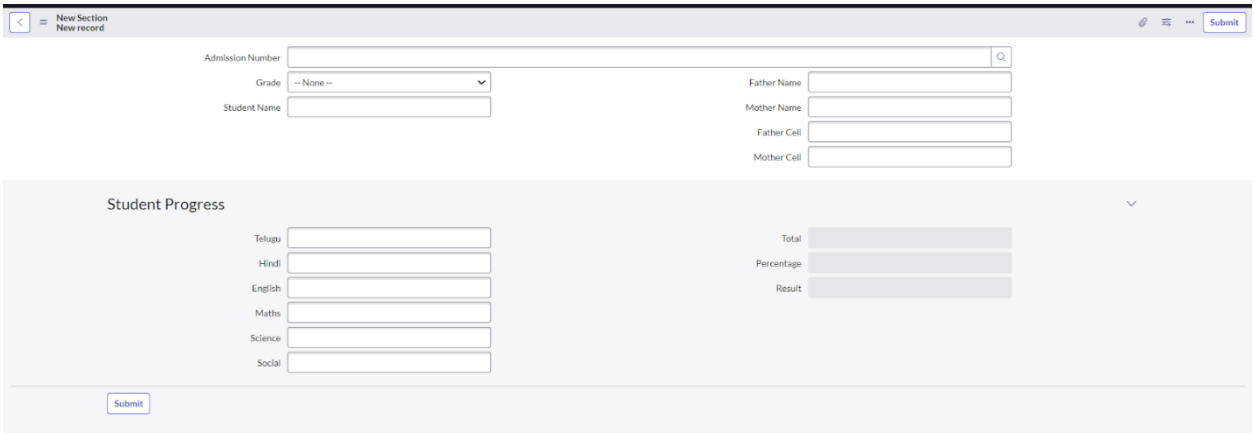


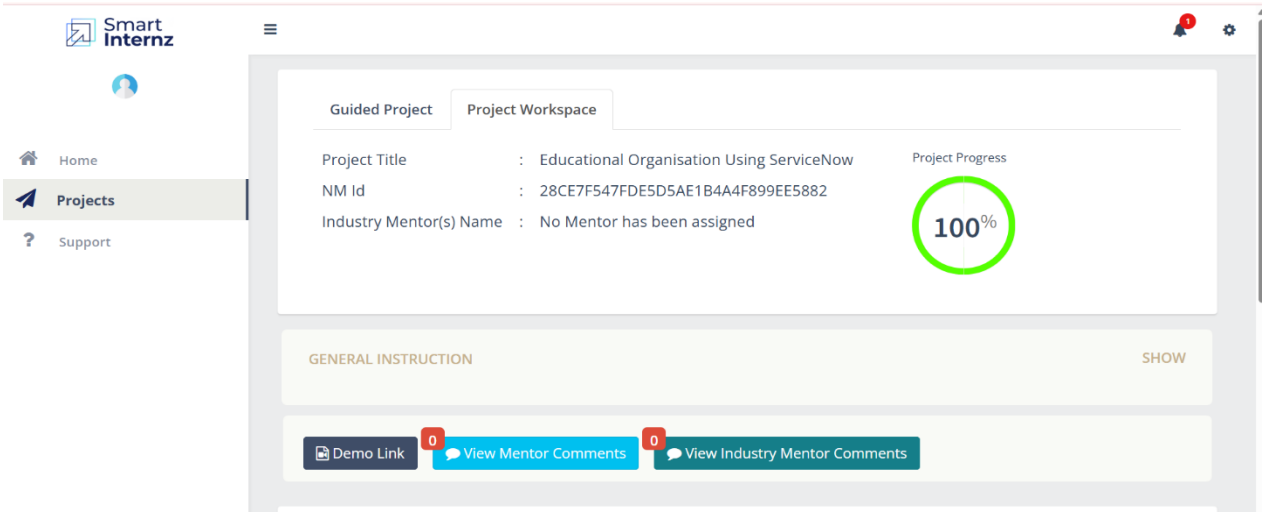
2. Enter the required details such as **Name, Table (Student Progress), and Type (onChange)**.
3. Paste the given JavaScript code into the script editor.
4. Enable **Isolate Script** for secure execution.
5. Click **Save** to apply the client script.

Result:


Salesforce
New record
Submit
Admin Number
SAL0001078
Admin Date
Grade
-- None --
Student Name
Father Name
Mother Name
Mother Cell
Father Cell
Submit


Admission
New record
Submit
New
In progress
Joined
Rejected
Rejoined
Closed
Cancelled
Admission Number
Purpose of Join
-- None --
Student Name
Father Name
Mother Name
Admin Date
Grade
-- None --
Fee
$
0.00
Father Cell
Mother Cell
Admin Status
-- None --
Comments
School Details
Address
School Area
-- None --
School
-- None --
Submit


New Section
New record
Submit
Admission Number
Grade
-- None --
Student Name
Father Name
Mother Name
Father Cell
Mother Cell
Student Progress
Telugu
Hindi
English
Maths
Science
Social
Total
Percentage
Result
Submit


Smart Internz
Home
Projects
Support
Guided Project
Project Workspace
Project Title : Educational Organisation Using ServiceNow
NM Id : 28CE7F547FDE5D5AE1B4A4F899EE5882
Industry Mentor(s) Name : No Mentor has been assigned
Project Progress
100%
GENERAL INSTRUCTION
SHOW
Demo Link
0
View Mentor Comments
0
View Industry Mentor Comments

Conclusion

The *Educational Organisation* project in **ServiceNow** effectively automates school management processes such as admissions and student progress tracking. Using tables, client scripts, and process flows, the system improves data accuracy and reduces manual work. Overall, it demonstrates how ServiceNow can be used to build efficient and user-friendly educational management solutions.