

Project Design

TEAM ID	LTVIP2025TMID29135
PROJECT NAME	Educational Organization Management Using ServiceNow

Proposed Solution Template

Project Design Overview

S. No	Parameter	Description
1	Problem Statement	Educational institutions often rely on manual processes for student admissions, academic tracking, and faculty coordination, leading to inefficiencies and delays.
2	Idea/Description	Design a centralized digital platform using ServiceNow to manage admissions, academic data, and staff workflows efficiently and transparently.
3	Novelty/Uniqueness	Utilizes ServiceNow's low-code/no-code tools to build scalable modules for student progress tracking, automated workflows, and dynamic client scripts.
4	Social Impact / Satisfaction	Reduces administrative burden, improves accuracy, and enhances service delivery to students and faculty.
5	Business Model	The solution can be licensed to schools and colleges through a SaaS model with integrations for fee management and academic analytics.
6	Scalability	Can be expanded to universities with modular additions such as LMS integration, parent portals, or hostel management.

Implementation Steps in ServiceNow

1 Setting Up the Instance

- Sign up at: <https://developer.servicenow.com>
 - Request and activate a Personal Developer Instance
 - Log in using credentials sent via email
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2 Creating an Update Set

- Navigate to: All → Local Update Sets → New
 - Name: Educational Organisation
 - Submit and click **Make Current**
-

3 Creating the Salesforce Table

- Go to All → Tables → New
 - Label: Salesforce, API name auto-generated
 - Create columns like Admin Number, Name, Grade, etc.
 - Set Admin Number as **Display = True**
 - Enable **Extensible** in Controls
 - For Admin Number, use Dynamic Default → Get Next Padded Number
 - For Grade, add choices with label, value, and sequence
-

4 Creating the Admission Table

- Go to Tables → New
- Label: Admission, extends table: Salesforce
- Add to Menu → Salesforce

- Fields: Student Name, Phone, Email, Grade, DOB, etc.
 - Add **choice lists** for:
 - Admin Status
 - Pincode
 - Purpose of Join
 - School
 - School Area
-

5 Creating Student Progress Table

- Go to Tables → New
 - Label: Student Progress
 - Add to Menu → Salesforce
 - Add fields: Telugu, Hindi, English, Maths, Science, Social, Total, Percentage, Result
-

6 Configuring Student Progress Form

- Navigate to: Student Progress Table → Layout Form
 - Add fields from Admission table (linked via Admission Number)
 - Click Admission Number [+] → Move fields from Available to Selected
 - Save
-

Additional Configuration Activities

Form Design for Salesforce Table

- Go to System Definition → Tables
- Search and open Salesforce
- Right-click → Configure → Form Design

- Select Salesforce (u_salesforce)
 - Drag-and-drop fields into the form
 - Save
-

◆ Number Maintenance for Admin Number

- Go to: All → Number Maintenance → New
 - Fill details and click Submit
-

🔄 Process Flow for Admission Table

- Navigate to All → Process Flow → New
 - Save form, then replace **Name & Label** for each state:
 - New → In Progress → Joined → Rejected → Rejoined → Closed → Cancelled
 - Use "Insert and Stay" to add states in order
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🧠 Client Scripts for Automation

✅ Auto-Populate Fields from Admission Table

javascript

CopyEdit

```
function onChange(control, oldValue, newValue, isLoading, isTemplate) {  
    if (isLoading || newValue === '') return;  
    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', true);
g_form.setDisabled('u_grade', true);
g_form.setDisabled('u_student_name', true);
g_form.setDisabled('u_father_name', true);
g_form.setDisabled('u_mother_name', true);
g_form.setDisabled('u_father_cell', true);
g_form.setDisabled('u_mother_cell', true);
}
```

Pincode Auto-Fill Script

javascript

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```
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');  
}  
}
```

Disable Total, Percentage, Result Fields

javascript

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```
function onLoad() {  
    g_form.setDisabled('u_total', true);  
    g_form.setDisabled('u_percentage', true);  
    g_form.setDisabled('u_result', true);  
}
```

Calculate Total from Subjects

javascript

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```
function onChange(control, oldValue, newValue, isLoading, isTemplate) {  
    if (isLoading || newValue === '') return;  
    if (newValue) {  
        var a = parseInt(g_form.getValue('u_telugu'));  
        var b = parseInt(g_form.getValue('u_hindi'));  
        var c = parseInt(g_form.getValue('u_english'));  
        var d = parseInt(g_form.getValue('u_maths'));  
    }  
}
```

```
var e = parseInt(g_form.getValue('u_science'));

var f = parseInt(g_form.getValue('u_social'));

var Total = a + b + c + d + e + f;

g_form.setValue('u_total', Total);

}

}
```

Calculate Result Based on Percentage

javascript

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```
function onChange(control, oldValue, newValue, isLoading, isTemplate) {

    if (isLoading || newValue === '') return;

    if(newValue) {

        var a = parseInt(g_form.getValue('u_percentage'));

        if(a >= 0 && a <= 59){

            g_form.setValue('u_result','Fail');

        } else if(a >= 60 && a <= 100) {

            g_form.setValue('u_result','Pass');

        } else {

            g_form.addErrorMessage('Percentage should be between 0 and 100.');
```

```
            g_form.clearValue('u_result');

        }

    }

}
```

Calculate Percentage from Total

javascript

CopyEdit

```
function onChange(control, oldValue, newValue, isLoading, isTemplate) {  
    if (isLoading || newValue === '') return;  
    var Total = g_form.getValue('u_total');  
    var Percentage = (Total / 600) * 100;  
    g_form.setValue('u_percentage', Percentage + '%');  
}
```

❏ Conclusion

This ServiceNow-based solution offers a powerful, low-code approach to digitizing education workflows. With features like automated admissions, role-based dashboards, and smart form behavior using client scripts, it enhances operational speed, accuracy, and accountability in academic institutions. It is a robust model ready to scale across departments and campuses.