Educational Organization Using ServiceNow

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Team Size: 4

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Team member: SHARMILA.K

Team member: SHARMILA.K

Team member: SHARMILA.S

Problem statement:

Managing educational organization data (students, staff, courses, subjects, and activities) is complex and requires automation. Manual processes often lead to inefficiencies and errors. ServiceNow provides a platform to simplify and optimize these

Objective:

To design and implement a ServiceNow-based solution that streamlines educational organization processes by setting up custom tables, forms, flows, and scripts.

Skills:

ServiceNow Administration

Table & Form Design

Update Set Management

Number Maintenance

Process Automation using Flow Designer

Client-side Scripting (Client Scri



Setting up ServiceNow Instance

- 1. Sign up for a developer account on the ServiceNow Developer site "https://developer.servicenow.com".
- 2.Once logged in, navigate to the "Personal Developer Instance" section.
- 3.Click on "Request Instance" to create a new ServiceNow instance.
- 4. Fill out the required information and submit the request.
- 5. You'll receive an email with the instance details once it's ready.
- 6.Log in to your ServiceNow instance using the provided credentials.
- 7. Now you will navigate to the Service Now.

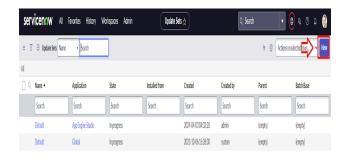
Creating a Update Set

1.Click on All >> Local update sets.

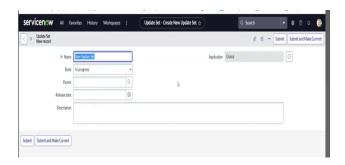


2.Click on New





3.Enter the Details Name: Educational Organisation >> Click on Submit and make Current



Createing a table

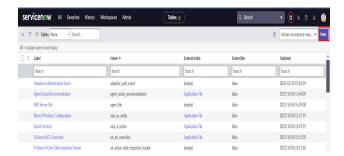
Creating Salesforce Table.

1.All » Tables.

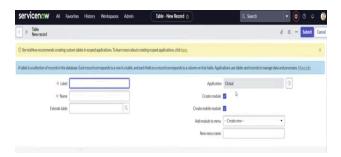


2.Click on New

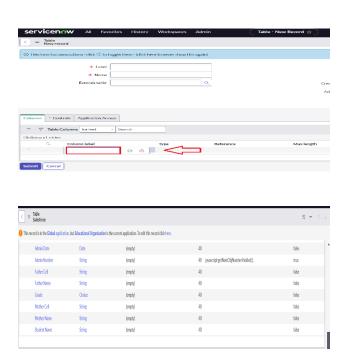




3.Enter the Label(Anything you want): Salesforce >> Click on Name it will Automatically generate Api name.

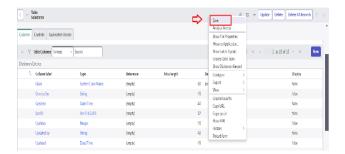


4.Create columns as given below, Double Click on Column label and Enter the Column labels and click on the tick mark >> Give Type as given .





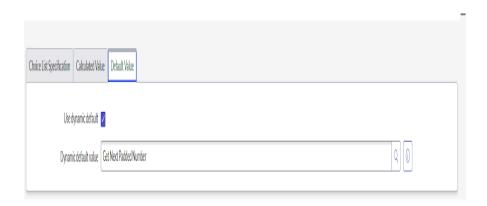
5. For "Admin Number" Give Display as True and right click on the toggle bar on top >> save.



6.Click on controls >> Enable Extensible.

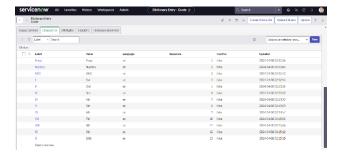


7.Click on "Admin Number" column, In Related Links Click on Advanced View >> Default View (Enable Use dynamic default) >> select Get Next Padded Number in Dynamic default value >> Update.



8.Click on "Grade" Column >> Click on Choices and give Label, Value and Sequence as given below.

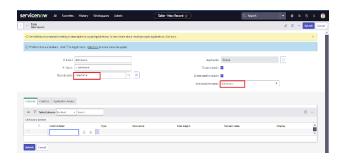




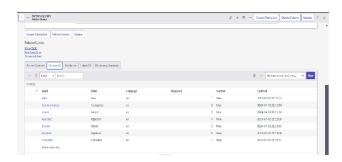
Creating Admission Table

1.Create an Admission Table with Columns given.Select Extends Table >> Salesforce and also Select Add module to menu >>

- 2. Salesforce.
- 3.Create Fields as shown



4.Create choice for Admin Status as:





5. Create choice for Pincode as:



6.Create choice for Purpose of Join as:



7. Create choice for School as:



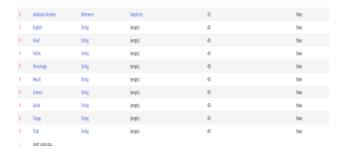
8.Create choice for School Area as:





Creating Student Progress Table

- 1.Create a Student Progress Table with Columns given.
- 2. Select Add module to menu >> Salesforce.
- 3. Create Fields as shown:



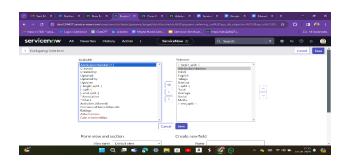
Form Layout

Configuring Table form for Student Progress Table

1.In the Student Progress Table Page, Click on Layout form.

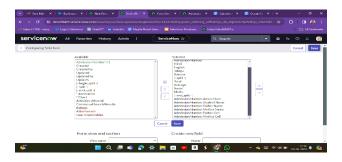


2.Click on Admission Number (+).





3. Select below Admission Number fields in Available side and send it to selected side as below >> save.

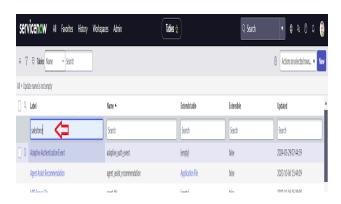


Form Design

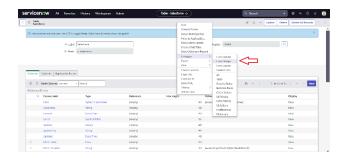
Creating Form Design for Salesforce Table

 $1.All \gg System Definition \gg Tables$.

2.In Label Search for Salesforce and open .



3. Right Click on top Toggle >> Configure >> Form Design.





4.In drop down select Salesforcelu_salesforcel.



5.Drag and drop the fields to the left side as below.



6.Save.

Creating Form Design for Admission Table

1. Follow the same steps as Activity 1, Configure the fields as below and Save.





Creating Form Design for Student progress Table

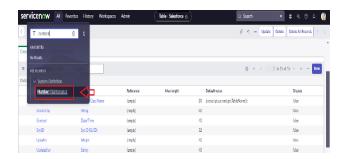
1. Follow the same steps as Activity 1, Configure the fields as below and Save.



Number Maintenance

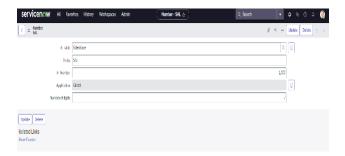
Creating Number Maintenance for Admin Number

1.All >> Number Maintenance >> New





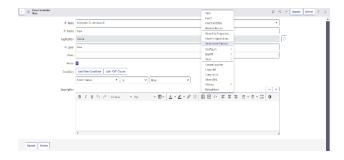
2. Fill the details >> Submit.



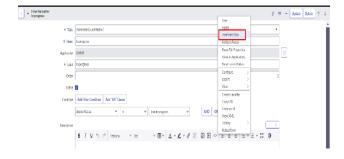
Process Flow

Creating Process Flow for Admission Table

- 1.All >> Process Flow>> New.
- 2. Fill the Details as given Below



- 3. Right Click on toggle and click on the save.
- 4. Replace the Name and Label as below and click on Insert on stay.



5. Replace the Name and Label in order and click on Insert on stay.



6. Joined >> Rejected >> Rejoined >> Closed >> Cancelled.

7.Order should be New >> InProgress >> Joined >> Rejected >> Rejoined >> Closed >> Cancelled.

Client Script

1.All >> Client Scripts >> New.

2. Fill the Details as given.



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

```
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.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_father_name',a.u_mother_name);

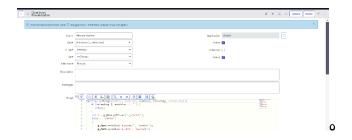
g_form.setDisabled('u_mother_name',a.u_mother_name);

g_form.setDisabled('u_father_cell',a.u_father_cell);

g_form.setDisabled('u_mother_cell',a.u_mother_cell);
```

Creating "Pincode Update" Client Scripts for Admission Table

1. Fill the Details as given.



Note: Make sure the Field names should be the same as you created.

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



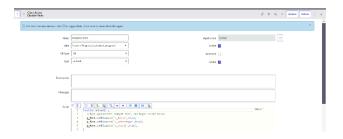
```
function on Changelcontrol, old Value, new Value, is Loading, is Template) {
  if (isLoading | newValue === ") {
     return;
  }
   var a = g_form.getValue('u_pincode');
if(a == '509358')
{
g_form.setValue('u_mandal', 'kadthal');
g_form.setValue('u_city', 'kadthal');
g_form.setValuel'u_district', 'RangaReddy');
}
else if(a == '500081')
£
g_form.setValuel'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
}
```

Creating "Disable Fields" Client Scripts for Student progress Table

1. Fill the Details as given



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

function onLoad() {

//Type appropriate comment here, and begin script below

g_form.setDisabled('u_total',true);

g_form.setDisabledl'u_percentage',true);

g_form.setDisabled('u_result',true);

}

Creating "Total Update" Client Scripts for Student progress Table

1. Fill the Details as given.

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



```
function on Changelcontrol, old Value, new Value, is Loading, is Template) {
  if lisLoading | newValue === ") {
     return;
  }
  //Type appropriate comment here, and begin script below
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 = parseIntlg_form.getValuel'u_science'));
var f = parseInt(g_form.getValue('u_social'));
```



```
var Total = parseInt(a+b+c+d+e+f);
g_form.setValue('u_total', Total);
}
```

Creating "Result" Client Scripts for Student progress Table

1. Fill the Details as given.

}



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

function on Changelcontrol, old Value, new Value, is Loading, is Template) {

if lisLoading | | newValue === ") {

return;



```
}
//Type appropriate comment here, and begin script below
if(newValue) {
  var a = parseInt(g_form.getValue('u_percentage')); // Convert the value to an integer for comparison
  if(a >= 0 \&\& a <= 59){
     g_form.setValue('u_result','Fail');
  } else if(a >= 60 \&\& a <= 100) {
    g_form.setValue('u_result','Pass');
  } else {
    // Handle the case if a is out of range (optional)
    g_form.addErrorMessagel'Percentage should be between 0 and 100.1;
    g_form.clearValue('u_result');
  }
```

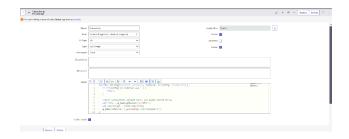


}

}

Creating "Percentage" Client Scripts for Student progress Table

1. Fill the Details as given.



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

function on Changelcontrol, old Value, new Value, is Loading, is Template) {

if lisLoading | newValue === ") {

return;

}



```
//Type appropriate comment here, and begin script below
var Total = g_form.getValue('u_total');
var Percentage = (Total/600)*100;
g_form.setValue('u_percentage',Percentage+'%');
```

Result

}



Conclusion:



By implementing these steps in ServiceNow, the educational organization can effectively manage student and staff data, automate workflows, and ensure accuracy and efficiency in processes. The use of Update Sets, Tables, Forms, Process Flows, and Client Scripts allows smooth customization and adaptability for academic needs.