Project Design

Team ID	LTVIP2025TMID30907
Project Name	Educational Organization Using ServiceNow

Proposed solution:

S. No	Parameters	Description
1.	Problem Statement	The Educational Management System is a comprehensive digital platform developed to streamline and automate various administrative tasks within educational institutions. It enables efficient and secure management of both student and teacher data, ensuring accuracy and easy accessibility.
2.	Solution Description	This is enables real-time tracking and service automation, allowing educational institutions to respond quickly to requests and manage resources more efficiently.
3.	Uniqueness	The uniqueness of the Educational Organization using ServiceNow project lies in its ability to ensure a secure digital transformation, significantly reducing the administrative burden while enhancing accuracy, operational efficiency, and transparency in academic processes.
4.	Social Impact	The Educational Organization using ServiceNow project creates a meaningful social impact by ensuring equal and timely access to academic resources and services for both students and staff, thereby promoting inclusivity and strengthening support across diverse educational communities.
5.	Business Model	Business model focused on enhancing institutional efficiency and user experience through digital transformation. The model leverages the capabilities of the ServiceNow platform to deliver smart, automated solutions for core educational services.
6.	Scalability Of The Solution	This project is built on a scalable architecture that can easily adapt to the growing needs of institutions of all sizes—from small colleges to large universities or education groups with multiple campuses.

Milestone-1: Setting up Instance

Purpose:

The ServiceNow instance is used to digitize and streamline key administrative processes in an educational organization. It helps manage student admissions, attendance, faculty data, and service requests through automated workflows. This improves efficiency, data accuracy, and collaboration while reducing manual work and paperwork.

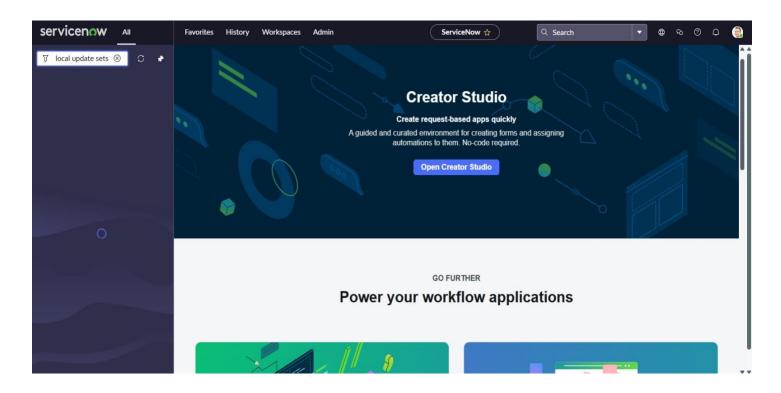
Uses:

The ServiceNow instance is used to automate student admissions, track attendance, manage faculty and student records, handle service requests, and monitor academic progress.

Activity-1: ServiceNow instance

Steps:

- 1. Sign in to your ServiceNow instance with the given credentials.
- 2. Go to the ServiceNow Developer site: developer.servicenow.com.
- 3. Sign up and log in to your developer account.
- 4. Navigate to Personal Developer Instance.
- 5. Click Request Instance and submit the required details.
- 6. Wait for an email with your instance access link



Milestone-2: Update Set

Purpose:

Update set is used to track, manage, and migrate customizations like forms, tables, and workflows related to student admissions, attendance, and academic records. It ensures safe deployment, error-free updates, and helps maintain consistency across development and production environments.

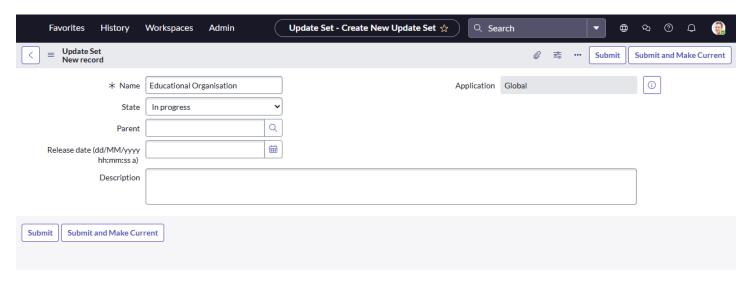
Uses:

Tracks modifications made to applications (like student admission or attendance modules), allowing rollback if needed. Once an update set is created for features like course registration or faculty evaluation, it can be reused or cloned for other departments or campuses.

Activity-1: Create update set

Steps:

- 1. Click on All >> Local update sets
- 2. Click on new



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

Milestone-3: Table

Purpose:

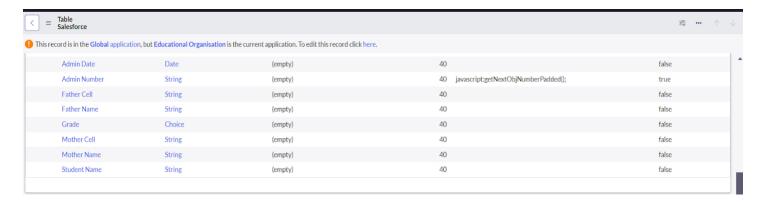
Tables are used to store and organize data such as student records, faculty details, attendance, admissions, and academic progress. They help in centralizing information, enabling easy access, retrieval, and management of educational data within the ServiceNow platform.

Uses:

Store and organize structured data ,Allow easy retrieval and filtering, Enable data relationships across systems, Support report generation, Help in process automation, Maintain data accuracy and integrity

Activity-1: Creating Salesforce Table.

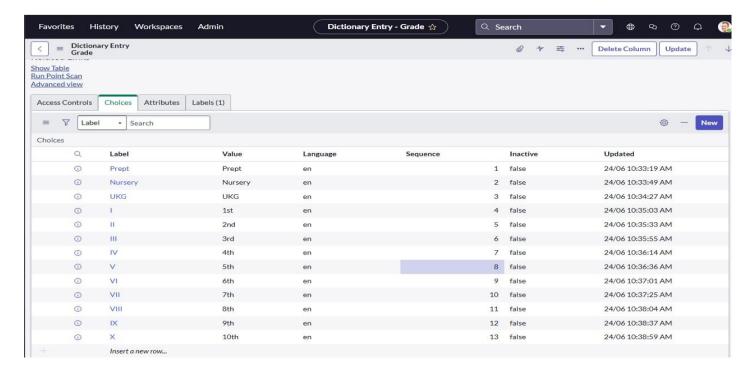
- 1. All >> Tables.
- 2. Click on new
- 3. Enter the Label Salesforce double Click on Name it will Automatically generate Api name.
- 4. Create columns as given below, Double Click on Column label and Enter the Column labels and click on the tick mark <<Give Type as given .



- 5. Click on controls >> Enable Extensible.
- 6. 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.

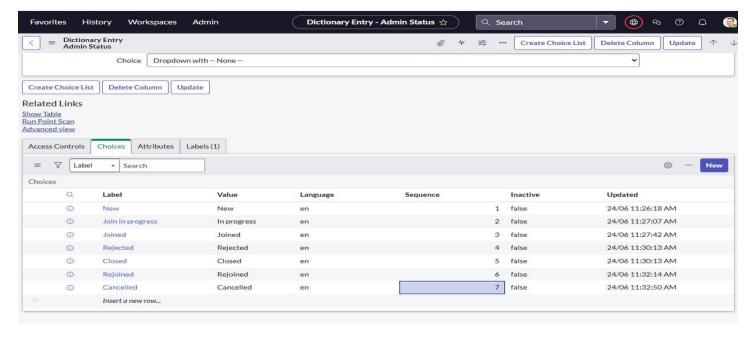


7. Click on "Grade" Column >> Click on Choices and give Label, Value and Sequence as given below.

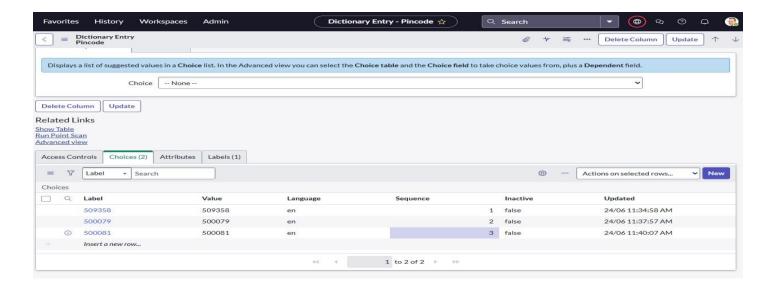


Activity-2: Creating Admission Table

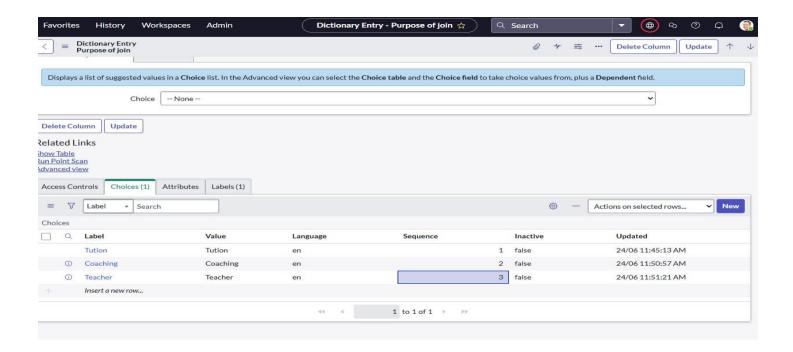
- 1. Create an Admission Table with Columns given.
- 2. Select Extends Table >> Salesforce and also Select Add module to menu >> Salesforce.
- 3. Create Fields as shown
- 4. Create choice for Admin Status as



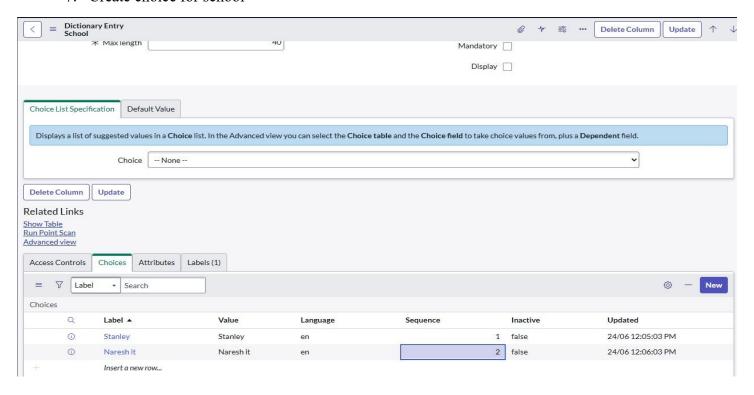
5. Create choice for Pincode as



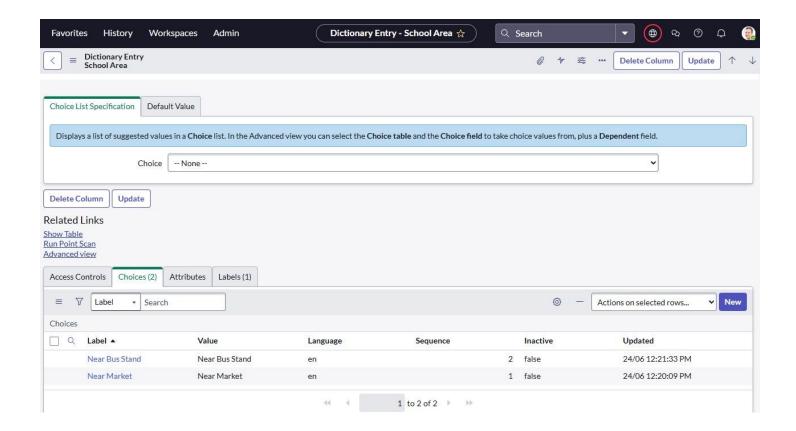
6. Create choice for purpose of join



7. Create choice for school



8. Create choice for school area



Activity-3: Creating Student Progress Table

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



Milestone-4: Form Layout

Purpose:

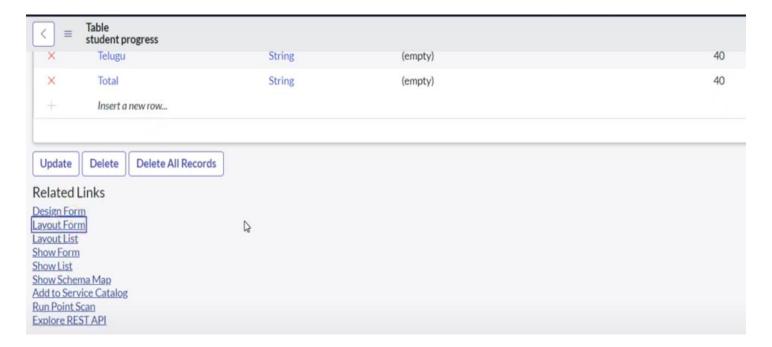
Form Layout is used to organize and display fields in a structured way on forms. It helps educational institutions separate student and faculty data, show important details clearly, and improve data entry and user experience.

Uses:

Organizes form fields for better clarity, Separates student, faculty, and admin data sections, Highlights mandatory fields for accurate data entry, Improves user experience and efficiency, Supports customized views for different users.

Acivity-1: 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.

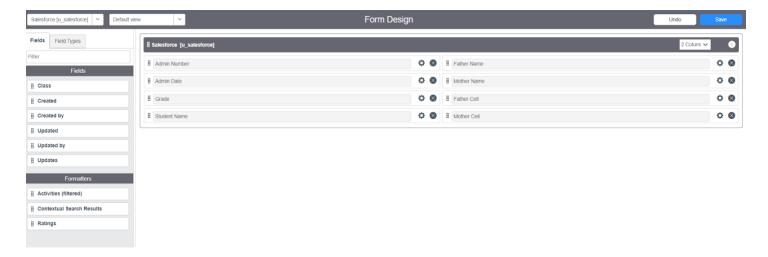
Milestone-5: Form Design

Purpose:

Form Design is used to customize the appearance and structure of forms to suit the institution's needs. It helps in displaying relevant fields, improving data accuracy, and creating user-friendly interfaces for managing student, faculty, and academic records.

Activity-1: Form design for salesforce table

- 1. All >> System Definition >> Tables.
- 2. In Label Search for Salesforce and open .
- 3. Right Click on top Toggle >> Configure >> Form Design.
- 4. In drop down select Salesforce(u_salesforce)
- 5. Drag and drop the fields to the left side as below.



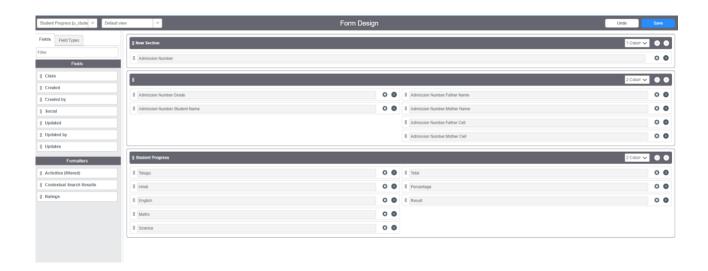
Activity-2: Form Design for Admission Table

1. Follow the same steps as Activity1, Configure the fields as below and Save.



Activity-3: Form Design for Student progress Table

1. Follow the same steps as Activity1, Configure the fields as below and Save.



Milestone-6: Number Maintenance

Purpose:

Number Maintenance is used to automatically generate unique identification numbers for records like student IDs, admission forms, and attendance entries. It ensures consistency, avoids duplication, and helps in easily tracking and managing records.

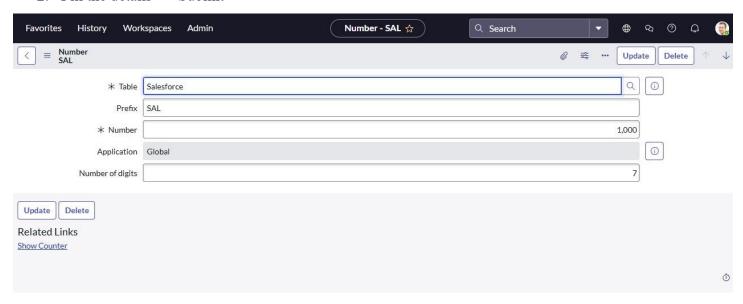
Uses:

Generates unique IDs for students, staff, and records, Prevents duplication of entries, Helps in tracking records efficiently, Maintains consistency across forms and module, Supports automated record creation for processes like admissions and attendance

Activity-1: Number Maintenance for Admin Number

1. All >> Number Maintenance >> New

2. Fill the details >> Submit



Milestone-7: Process Flow

Activity-1: Create flow

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

Milestone-8: Client Scripts

Purpose:

Client Scripts are used to run custom code on the client side (browser) to enhance form behavior. They help in validating data, auto-filling fields, and improving user interaction in real-time without needing a server request.

Uses:

Validate form data before submission, Show/hide fields dynamically, Auto-fill or modify fields based on user input, Improve user experience with real-time responses, Reduce server load by handling logic on the client side

Activity-1: Auto populate Client Scripts for Admission Table

- 1. All >> Client Scripts >> New.
- 2. Fill the Details as given
- 3. Write the Code as given, 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.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);

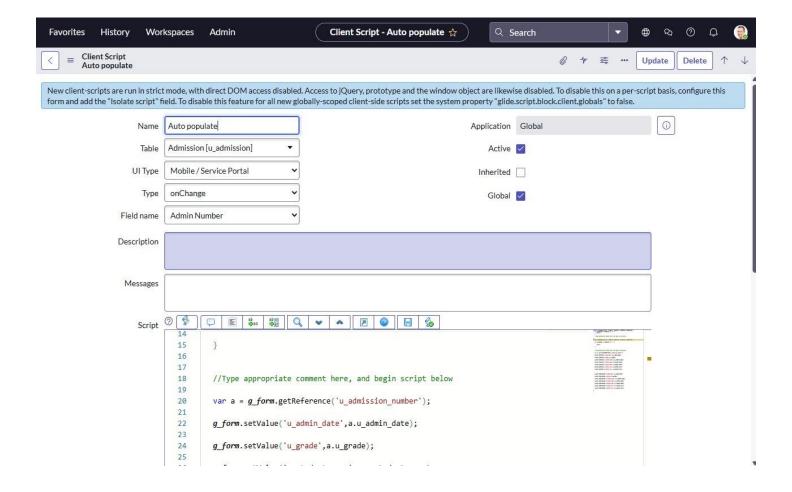
G_form.setDisabled('u_student_name',a.u_student_name);

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);
```



Activity-2: Pincode Update Client Scripts for Admission

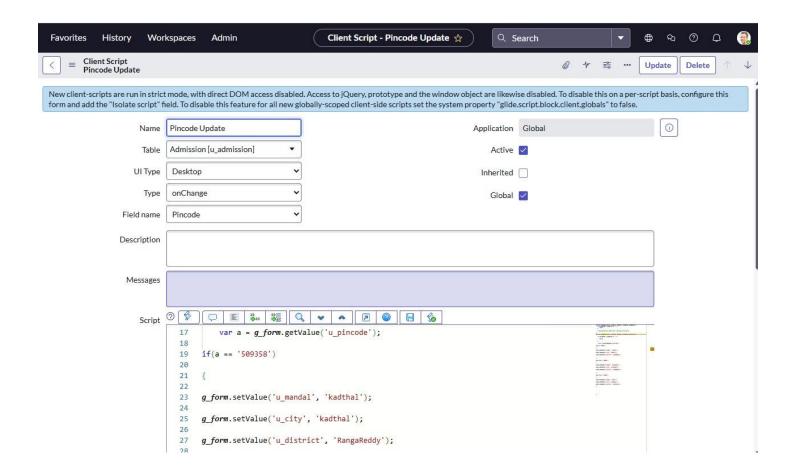
Table

- 1. Fill the Details as given.
- 2. Write the Code as given, Enable Isolate script and Save.

```
Function on Change (control, 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.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
}
```



Activity-3 : Disable Fields Client Scripts for Student progress Table

1. Fill the Details as given.

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

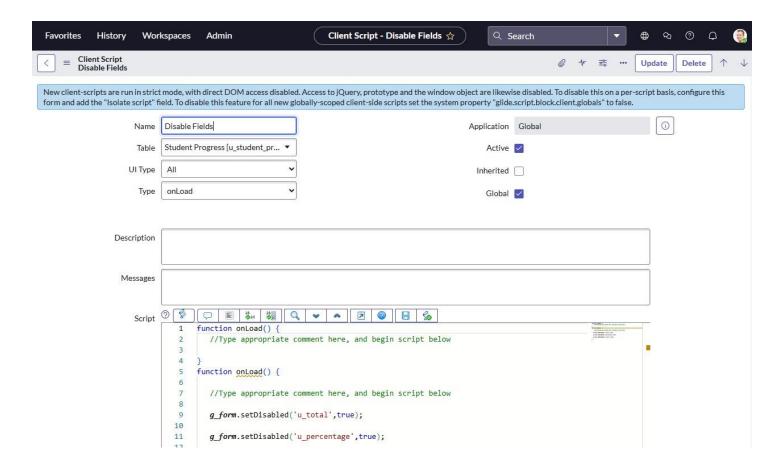
```
Function onLoad() {

//Type appropriate comment here, and begin script below

G_form.setDisabled('u_total',true);

G_form.setDisabled('u_percentage',true);

G_form.setDisabled('u_result',true);
```



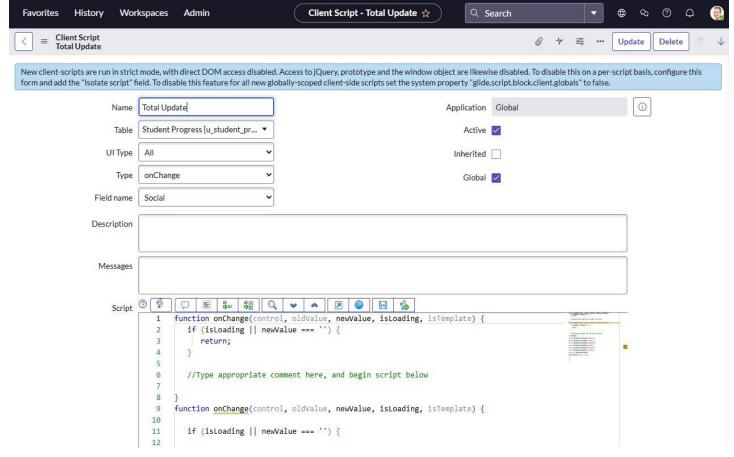
Activity-4: Total Update Client Scripts for Student progress Table

- 1. Fill the Details as given.
- 2. Write the Code as given, Enable Isolate script and Save.

Function on Change (control, old Value, new Value, is Loading, is Template) {

```
If (isLoading || 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 = parseInt(g_form.getValue('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);
}
```



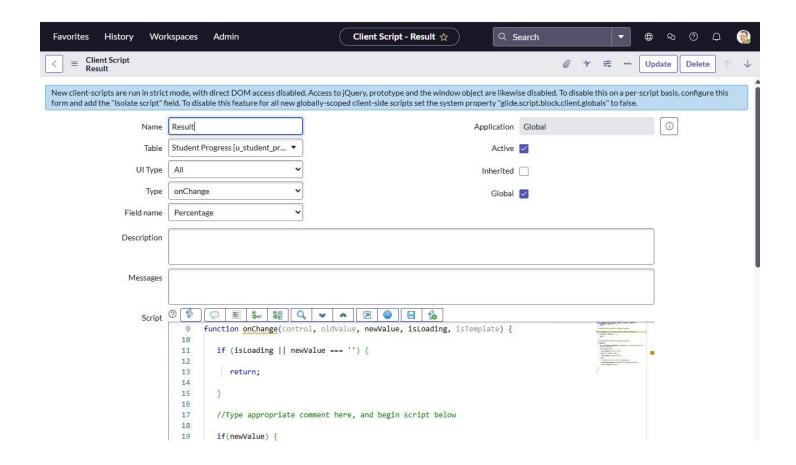
Activity-5: Result Client Scripts for Student progress

Table

- 1. Fill the Details as given.
- 2. Write the Code as given, Enable Isolate script and Save.

```
function onChange(control, oldValue, newValue, isLoading, isTemplate) {
    if (isLoading || 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');
        }
}</pre>
```

```
} 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.addErrorMessage('Percentage should be between 0 and 100.');
g_form.clearValue('u_result');
}
}</pre>
```



Activity-6: Percentage Client Scripts for Student progress Table

- 1. Fill the Details as given.
- 2. Write the Code as given, 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 Total = g_form.getValue('u_total');

Var Percentage = (Total/600)*100;

G_form.setValue('u_percentage',Percentage+'%');
```

