





# Project Title: CALCULATING FAMILY EXPENSES USING SERVICENOW

Team Id:NM2025TMID19493

Team Members: 4

Team Leader: B.GOPIKA

**Team Member 1:G.PRINCY** 

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**Problem Statement:** Daily and monthly expenses are hard to manage manually, so an automated solution is required.

**Objective:** To develop a small ServiceNow app for recording daily expenses and auto-calculating monthly totals.

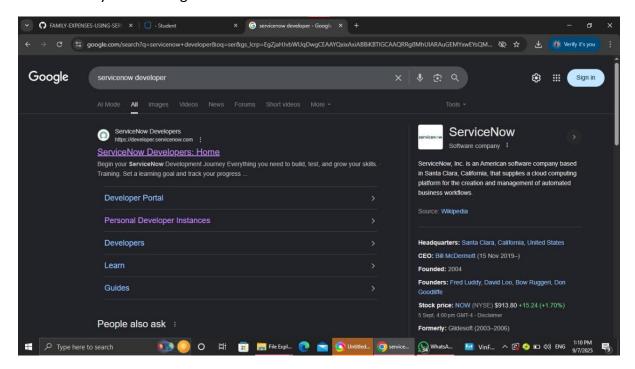
**Skills:** ServiceNow basics, JavaScript, reporting.

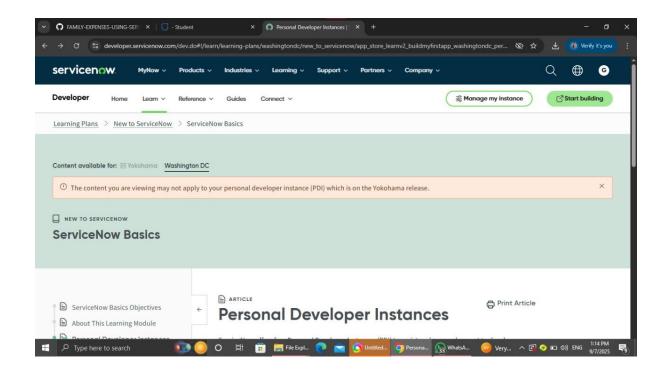
#### TASK INITIATION

Milestone 1:

**Activity 1: 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 ServiceNow.





#### Milestone 2:

# **Activity 2: Creation of New Update Set**

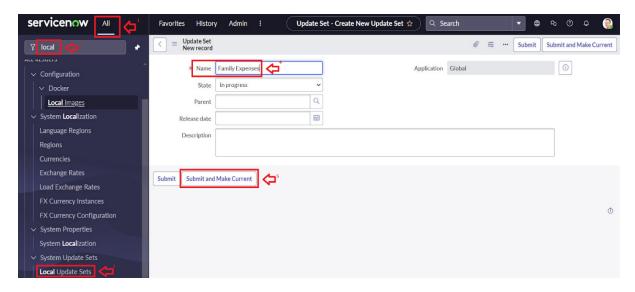
1. Go to All >> In the filter search for Local Update set > click on New.



2. Enter the Details as:

Name: Family Expenses

3. Then click on Submit and Make current.



#### Milestone 3: Creation of tables

### **Activity 1: Creation of Family Expenses Table**

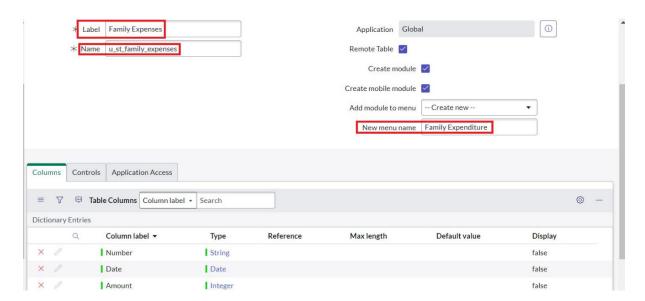
1. Go to All > In the filter search for Tables > click on New.

2. Enter the Details:

Label: Family Expenses

Name: Auto-Populated

New menu name: Family Expenditure



3. Go to the Header and right click there>> click on Save.

# **Activity2: Creation of Columns(Fields)**

1. Near Columns Double click near insert a new row.

2. Give the details as:

Column label: Number

Type: String

- 3. Double click on insert a new row again
- 4. Give the details as:

Column label: Date

Type: Date

- 5. Double click on insert a new row again
- 6. Give the details as:

Column label: Amount

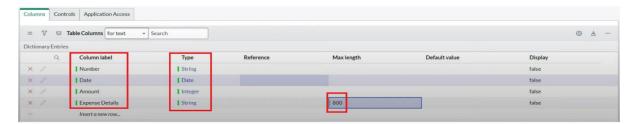
Type: Integer

- 7. Double click on insert a new row again
- 8. Give the details as:

Column label: Expense Details

Type: String

Max length: 800



9. Go to the Header and right click there>> click on Save.

# Activity3: Making Number Field an Auto-Number

- 1. Double click on the Number Field/Column.
- 2. Go down and double click on Advanced view
- 3. In Default Value:

Use dynamic default : check the box

Dynamic default value: Get Next Padded Number

4. Click on Update.



- 5.
- 6. Go to All >> In the filter search for Number Maintenance >> select Number Maintenance
- 7. Click on New.
- 8. Enter the below Details:

Table: Family Expenses

Prefix: MFE



9. Click on Submit.

# **Activity4: Configure the Form**

- 1. Go to All >> In the filter search for Family Expenses >> Open Family Expenses
- 2. Click on New

- 3. Go to the Header and right click there>> click on Configure >> Select Form Design
- 4. Customize or Drag Drop the form as per your requirement.



- 5. Make Number Read-Only Field by clicking on the gear icon and checking Read-Only
- 6. Make Date, Amount Mandatory Field by clicking on the gear icon and checking Mandatory
- 7. Click on Save.

### Milestone4:

# **Activity1: Creation of Daily Expenses Table**

- 1. Go to All > In the filter search for Tables > click on New.
- 2. Enter the Details:

Label: Daily Expenses

Name: Auto-Populated

Add Module to menu: Family Expenditure





3.Go to the Header and right click there>> click on Save.

# **Activity2: Creation of Columns(Fields)**

- 1. Near Columns Double click near insert a new row.
- 2. Give the details as:

Column label: Number

Type: String

- 3. Double click on insert a new row again
- 4. Give the details as:

Column label: Date

Type: Date

- 5. Double click on insert a new row again
- 6. Give the details as:

Column label : Expense

Type: Integer

- 7. Double click on insert a new row again
- 8. Give the details as:

Column label: Family Member Name

Type: Reference

Max length: 800

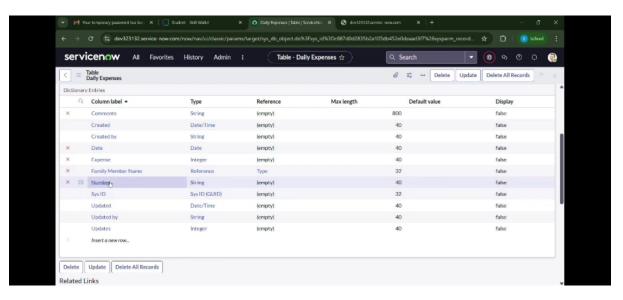
- 9. Double click on insert a new row again
- 10. Give the details as:

Column label: Comments

Type: String

Max length: 800

11. Go to the Header and right click there>> click on Save.



12.

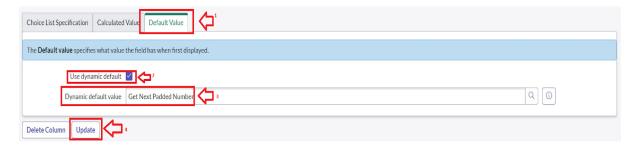
# **Activity3: Making Number Field an Auto-Number**

- 1. Double click on the Number Field/Column.
- 2. Go down and double click on Advanced view
- 3. In Default Value:

Use dynamic default : check the box

Dynamic default value : Get Next Padded Number

4. Click on Update.



- 6. Go to All >> In the filter search for Number Maintenance >> select Number Maintenance
- 7. Click on New.
- 8. Enter the below Details:

Table: Daily Expenses

Prefix: DFE



9. Click on Submit.

# **Activity4: Configure the Form**

- Go to All >> In the filter search for Daily Expenses >> Open Daily Expenses
- 2. Click on New
- 3. Go to the Header and right click there>> click on Configure >> Select Form Design
- 4. Customize or Drag Drop the form as per your requirement.



- 5. Make Number Read-Only Field by clicking on the gear icon and checking Read-Only
- 6. Make Date, Family Member Name Mandatory Field by clicking on the gear icon and checking Mandatory
- 7. Click on Save.

### Milestone5:

# Activity1: Creation of Relationship between Family Expenses and Daily Expenses tables

- 1. Go to All >> In the filter search for Relationships >> Open Relationships
- 2. Click on New.
- 3. Enter the details:

Name: Daily Expenses

Applies to table: Select Family Expenses

Daily Expenses : Select Daily Expenses

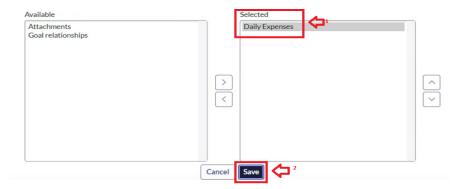
4. Click Save.

#### Milestone6:

# **Activity1: Configuring Related List on Family Expenses**

- Go to All >> In the filter search for Family Expenses >> Open Family Expenses
- 2. Click on New
- 3. Go to the Header and right click there>> click on Configure >> Select Related Lists

- 4. Add Daily Expenses to the Selected Area.
- 5. Click on Save



# Milestone7:

# **Activity1: Creation of Business Rules**

- 1. Go to All >> In the filter search for Business Rules.
- 2. Under System Definition Select Business Rules then click on New.
- 3. Enter the Details:

Name: Family Expenses BR

Table: Select Daily Expenses

**Check Advanced** 



4. In when to run Check Insert and Update



5. In Advance(we write the code): Write the below code >>

(function executeRule(current, previous /\*null when async\*/) {

var FamilyExpenses = new GlideRecord('u\_family\_expenses');
FamilyExpenses.addQuery('u\_date',current.u\_date);
FamilyExpenses.query();
if(FamilyExpenses.next())

```
{
FamilyExpenses.u_amount += current.u_expense;
FamilyExpenses.u expense details +=
">"+current.u_comments+":"+"Rs."+current.u_expense+"/-";
FamilyExpenses.update();
}
else
{
var NewFamilyExpenses = new GlideRecord('u_family_expenses');
NewFamilyExpenses.u_date = current.u_date;
NewFamilyExpenses.u_amount = current.u_expense;
NewFamilyExpenses.u expense details +=
">"+current.u_comments+":"+"Rs."+current.u_expense+"/-";
NewFamilyExpenses.insert();
}
})(current, previous);
```

```
Script
        (function executeRule(current, previous /*null when async*/) {
    2
            var FamilyExpenses = new GlideRecord('u_family_expenses');
    3
            FamilyExpenses.addQuery('u_date',current.u_date);
    5
            FamilyExpenses.query();
            if(FamilyExpenses.next())
               FamilyExpenses.u amount += current.u expense;
               FamilyExpenses.u_expense_details += ">"+current.u_comments+":"+"Rs."+current.u_expense+"/-";
    9
   10
               FamilyExpenses.update();
   11
           else
   12
   13
   14
               var NewFamilyExpenses = new GlideRecord('u_family_expenses');
               NewFamilyExpenses.u_date = current.u_date;
               NewFamilyExpenses.u_amount = current.u_expense;
   16
               NewFamilyExpenses.u expense details += ">"+current.u comments+":"+"Rs."+current.u expense+"/-";
   17
   18
               NewFamilyExpenses.insert();
   19
   20
       })(current, previous);
```

6. Go to the Header and right click there>> click on Save.

### Milestone8:

# Activity1:

# **Configure the Relationship**

- 1. Go to All >> In the filter search for Relationships >> Open Relationships.
- 2. In that, open Daily Expenses Relationship.
- 3. For Applies to table: Select Family Expenses.
- 4. In Query with: write the below Query.

```
(function refineQuery(current, parent) {
```

```
// Add your code here, such as current.addQuery(field, value);
current.addQuery('u_date',parent.u_date);
```

current.query();

})(current, parent);

5. Click on Update.

