**Calculating Family Expenses using Service Now** 

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**Problem Statement:** 

Calculating family expenses can be a tedious and time-consuming task,

especially when done manually. Families often struggle to keep track of their

expenses, leading to overspending, financial stress, and difficulty in achieving

long-term financial goals. The lack of a streamlined and automated process for

calculating family expenses can result in inaccurate budgeting, financial

uncertainty, and poor decision-making.

**Objectives**:

1

The objective of this project is to design and develop a user-friendly

application or tool that can help families calculate and track their expenses

efficiently and accurately. The tool should be able to:

1. <u>Categorize expenses</u>: Allow users to categorize their expenses into different

categories, such as housing, food, transportation, and entertainment.

2. **Track expenses:** Enable users to track their expenses over time, providing a

clear picture of their spending habits.

3. **Generate reports:** Provide users with detailed reports and insights on their

spending habits, helping them identify areas for improvement.

4. **Set budgets:** Allow users to set budgets for different categories and alert them

when they exceed their limits.

5. **Provide financial insights:** Offer users valuable insights and recommendations

on how to optimize their expenses and achieve their financial goals.

**TASK INITIATION** 

Milestone 1: Setting up ServiceNow Instance.

2

- Sign up for a developer account on the ServiceNow Developer site "<a href="https://developer.servicenow.com">https://developer.servicenow.com</a>".
- 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:** Creations of New Update Sets.

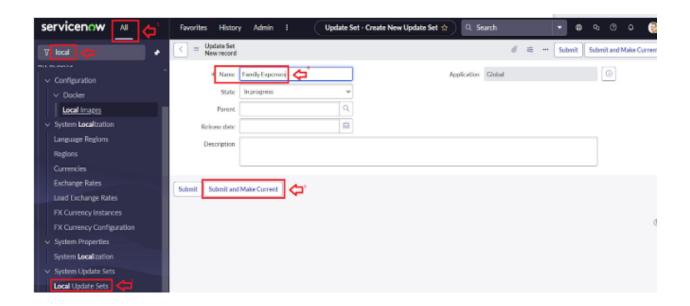
1. Go to All >> In the filter search for Local Update set > click on New.



2. Enter the Details as:

Name : Family Expenses

3. Then click on Submit and Make current.



## **Milestone 3: Creations of 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



## => Creations 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.

## => Making Number Field on 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.



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

Table: Family Expenses

Prefix: MFE



9. Click on Submit.

### => Configure the Form.

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



- 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.

## **Milestone 4: Creation of Table (Daily Expenses).**

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.

Creations 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.
- => Making Number Field on 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.



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

Table : Family Expenses

Prefix: MFE



9. Click on Submit.

## => Configure the Form.

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



 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.

## **Milestone 5: Creations of Relationship.**

=> Creation of Relationship Between Family Expenses and Daily Expenses

Table.

- 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

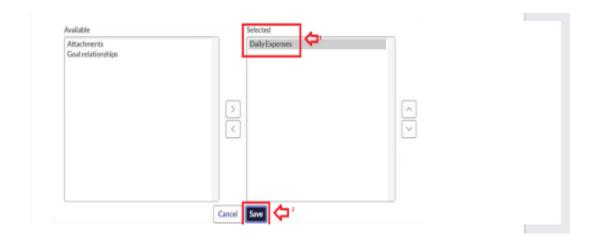
Daily Expenses : Select Daily Expenses

4. Click Save.

Milestone 6: 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



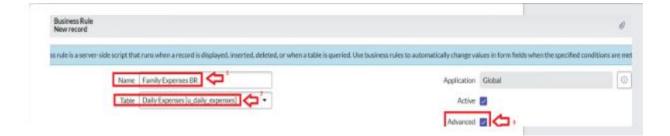
## **Milestone 7: Creations of Business Rules.**

- 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);
```

```
(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())
8
            FamilyExpenses.u_amount += current.u_expense;
            FamilyExpenses.u expense details += ">"+current.u comments+":"+"Rs."+current.u expense+"/-";
10
            FamilyExpenses.update();
11
12
        else
13
14
           var NewFamilyExpenses - new GlideRecord('u_family_expenses');
15
            NewFamilyExpenses.u_date = current.u_date;
           NewFamilyExpenses.u_amount = current.u_expense;
16
17
           NewFamilyExpenses.u expense details += ">"+current.u comments+":"+"Rs."+current.u expense+"/-";
           NewFamilyExpenses.insert();
18
19
20
    })(current, previous);
21
```

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

## => Configure the Relationship.

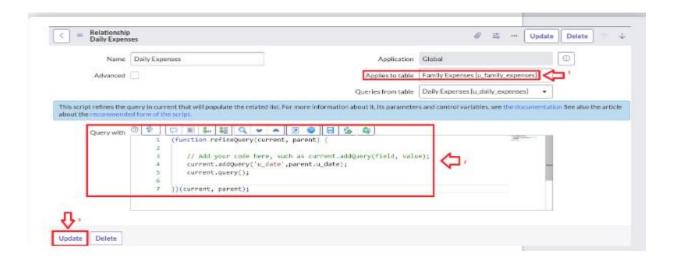
- 1. Go to All >> In the filter search for Relationships >> Open Relationships.
- 2. In that, open Daily Expenses Relationship.
- 3. For Applies to table: Select Family Expenses.
- 4. In Query with: write the below Query.

```
(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.



# **Conclusion.S**