

Calculating Family Expenses Using ServiceNow

Project Objective

To develop a ServiceNow-based system that helps track and manage family expenses efficiently with categorized data, budgeting, and reports.

Project Steps and Code

1. Setting Up ServiceNow Instance

Go to <https://developer.servicenow.com>, sign up, create a Personal Developer Instance, and choose the latest version.

2. Creation of New Update Set

Navigate to: System Update Sets → Local Update Sets → New

Example:

- Name: FamilyExpensesUpdate
- Description: Update set for managing family expenses system

3. Creation of Tables

A. Family Members Table

- Table Name: u_family_member
- Fields:

Name (String)

Relation (String)

Age (Integer)

Income (Currency)

B. Daily Expenses Table

- Table Name: u_daily_expenses
- Fields:

Date (Date)

Category (Choice: Food, Rent, etc.)

Amount (Currency)

Notes (String)

Family Member (Reference to u_family_member)

4. Creating Relationships

Create a reference field in u_daily_expenses table pointing to u_family_member to establish a one-to-many relationship.

5. Configuring Related List on Family Expenses

Go to: Family Member → Form Design → Related Lists tab → Add: Daily Expenses.

6. Creation of Business Rules

Navigation: System Definition → Business Rules → New

Example: Auto-Set Date

Script:

```
(function executeRule(current, gsn) {  
    if (!current.date)  
        current.date = new GlideDate();  
})(current, gsn);
```

7. Configure the Relationship (Advanced)

You can add a calculated field or create a report to summarize total expenses per member.

Summary

Tables: u_family_member, u_daily_expenses

Fields: Name, Age, Income, Date, Category, Amount, etc.

Business Rule: Auto-date on insert

Reports: Optional summary per member