

# PROJECT DESIGN PHASE

Date	01-11-2025
Team ID	NM2025TMID01717
Project name	Calculating Family Expenses Using Service Now

## Introduction to Design Phase:

The design phase focuses on planning how the Family Expense Calculate system will look and work inside ServiceNow. It includes designing the data tables, forms, workflows, and dashboards. This step ensures that the system structure is clear before implementation begins.

## STEPS:

### 1. Creation of new update set:

The screenshot shows a ServiceNow web interface for creating a new update set. The title bar reads "Update Set - Create Family Expenses 3". The form has fields for Name (Family Expenses), State (In progress), Parent (empty), Release date (empty), and Description (empty). Buttons at the bottom include "Submit" and "Submit and Make Current". The browser address bar shows the URL: dev201726.service-now.com/now/nav/ui/classic/params/target/sys\_update\_set.do?sys\_id=1%26sys\_is\_list=1%3Dtrue%26sys\_target=3Dsys\_update\_set%26sysparm\_checked\_items=3D%26sysparm...

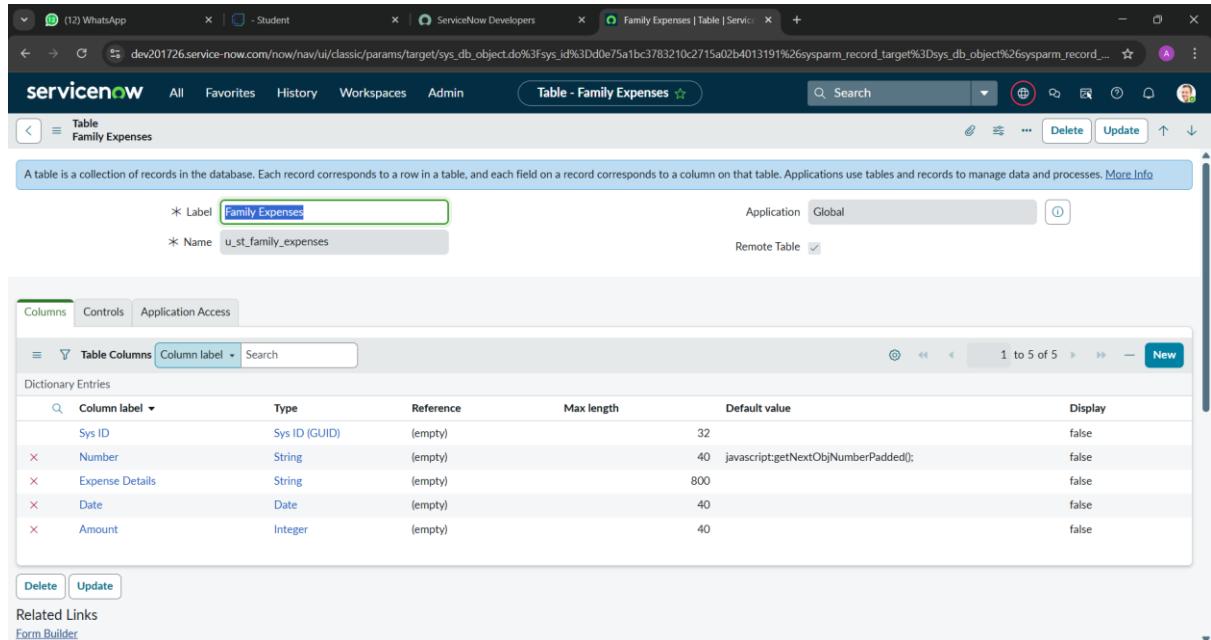
Go to All >> In the filter search for Local Update set > click on New.

Enter the Details as:

Name :Family Expenses then click submit and make current

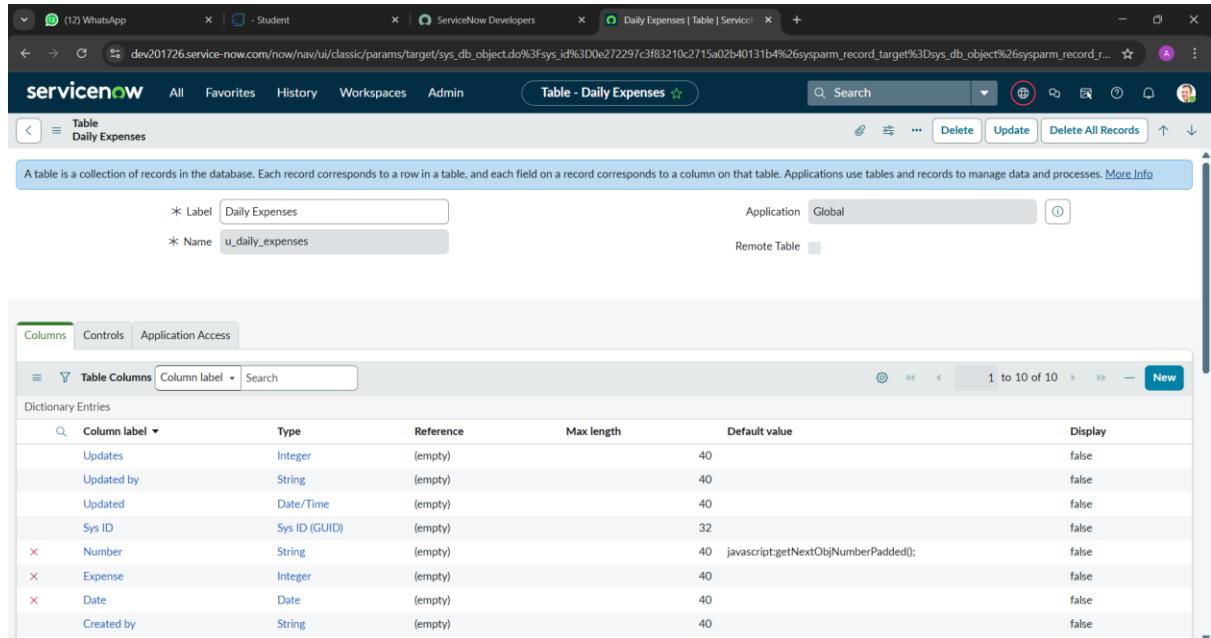
## 2.Table creation:

### Family expenses table:



The screenshot shows the ServiceNow Table - Family Expenses configuration page. At the top, there are fields for Label ('Family Expenses') and Name ('u\_st\_family\_expenses'), both marked with an asterisk. The Application is set to Global, and the Remote Table checkbox is checked. Below this, the 'Table Columns' section lists five columns: Sys ID (Sys ID (GUID)), Number (String), Expense Details (String), Date (Date), and Amount (Integer). The 'Dictionary Entries' table provides detailed information for each column, such as Max length and Default value. At the bottom, there are 'Delete' and 'Update' buttons.

### Daily expenses table:



The screenshot shows the ServiceNow Table - Daily Expenses configuration page. At the top, there are fields for Label ('Daily Expenses') and Name ('u\_daily\_expenses'), both marked with an asterisk. The Application is set to Global, and the Remote Table checkbox is checked. Below this, the 'Table Columns' section lists eight columns: Updates (Integer), Updated by (String), Updated (Date/Time), Sys ID (Sys ID (GUID)), Number (String), Expense (Integer), Date (Date), and Created by (String). The 'Dictionary Entries' table provides detailed information for each column. At the bottom, there are 'Delete', 'Update', and 'Delete All Records' buttons.

### 3. creation of relationship:

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.

The screenshot shows the ServiceNow interface for creating a relationship named 'Daily Expenses'. The configuration includes:

- Name:** Daily Expenses
- Application:** Global
- Applies to table:** Family Expenses [u\_st\_family\_expenses]
- Queries from table:** Daily Expenses [u\_daily\_expenses]

A script editor window displays the following ECMAScript 2021 code:

```
Query with (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);
```

Below the editor are buttons for **Run Query Diagnostics**, **Update**, and **Delete**. A note at the bottom states: "This script refines the query in current that will populate the related list. For more information about it, its parameters and control variables, see [the documentation](#) See also the article about the [recommended form of the script](#)."

### 4.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

Business Rule - Family Expenses BR

Name: Family Expenses BR Application: Global

Table: Daily Expenses [u\_daily\_expenses] Active:

Advanced:

**When to run:**

- When: before
- Order: 100
- Insert:
- Update:
- Delete:
- Query:

Filter Conditions: Add Filter Condition, Add OR Clause

-- choose field -- -- oper -- -- value --

Role conditions:

## Configure the Relationship:

Relationship - Daily Expenses

Name: Daily Expenses Application: Global

Advanced:  Applies to table: Family Expenses [u\_st\_family\_expenses]

Queries from table: Daily Expenses [u\_daily\_expenses]

This script refines the query in current that will populate the related list. For more information about it, its parameters and control variables, see the documentation See also the article about the recommended form of the script.

Query with: Turn on ECMAScript 2021 (ES12) mode

```

1 (function refineQuery(current, parent) {
2
3     // Add your code here, such as current.addQuery(field, value);
4     current.addQuery('u_date',parent.u_date);
5     current.query();
6
7 })(current, parent);

```

Run Query Diagnostics, Update, Delete

Related Links: Run Point Scan

## Conclusion of Design Phase:

The design phase ensures a clear structure for the Family Expense calculate system. With the tables, forms, workflows, and dashboards properly planned, the project is ready to move into the next phase.