

# Service Now Project Documentation

## Introduction

- **Project title :** Calculating Family Expense Using service Now
- **Team Members :**
  - Madhankumar M
  - Mohamed Yaseen U
  - Mohamed Shahabdeen B
  - Dowfick Ansari S

## Project Overview

- **Purpose:** This documentation outlines the steps to build a basic family expense tracking application using the ServiceNow platform. This project will help you apply core concepts like creating tables, forms, and reports to a real-world scenario.
- **Features :**
  - A Personal developer instance{PDI} of servicenow.
  - Basic understanding of servicenow platform and studio.

## Part 1: Application Setup

1. **Navigate to ServiceNow Studio:**
  - In your ServiceNow instance, type "Studio" in the Application Navigator and click on **System Applications > Studio**.
  - Click on **Create Application** and select **Start from scratch**.
2. **Create a New Application:**
  - Provide the following details:
    - **Name:** Family Expense Tracker
    - **Description:** An application to track and calculate family expenses.
    - Click **Create**.

## Part 2: Creating the Expense Table

The expense table will store all the individual expense records.

### 1. Create a New Table:

- In Studio, click **Create Application File**.
- Search for "Table" and select **Table**. Click **Create**.

### 2. Configure the Table:

- **Label:** Expense
- **Extends Table:** Task (This is good practice for common functionalities like State, Assigned to, etc.)
- Click **Submit**.

### 3. Add Columns to the Table:

- From the **Columns** tab, click **New**.
- Create the following columns:

#### Column 1:

- **Label:** Amount

**Type:** Currency

#### Column 2:

- **Label:** Date

- **Type:** Date

#### Column 3:

- **Label:** Category

- **Type:** Choice

- **Choices:** Add choices like Groceries, Rent, Utilities, Transportation, Entertainment, Education, and Other.

#### ■ Column 4:

- **Label:** Description

- **Type:** String

#### ■ Column 5:

- **Label:** Family Member

- **Type:** Reference

- **Reference:** User [sys\_user] (This allows you to select which family member incurred the expense.)

## Part 3: Building the Expense Form and List View

### 1. Configure the Form Layout:

- In the table record, click on **Form Design**.
- Arrange the fields in a user-friendly layout. You can drag and drop fields like Amount, Date, Category, Description, and Family Member.
- Save the form layout.

### 2. Configure the List Layout:

- From the table record, click **List Layout**.
- Select the columns you want to display in the list view, such as Number, Amount, Date, Category, and Family Member.
- Click **Save**.

## Part 4: Creating Reports and Dashboards

Reports are essential for calculating and visualizing your expenses.

### 1. Create a New Dashboard:

- In the Application Navigator, search for "Dashboard" and click **Dashboards**.
- Click **New** and create a new dashboard called Family Expense Dashboard.

### 2. Create a Report for Total Monthly Expenses:

- On your new dashboard, click the **Add widgets** button.
- Click on **Reports** and then **Create a new report**.

#### ○ Data:

■ **Table:** Expense (x\_yourco\_fam\_exp\_tracker\_expense)

■ **Filter:** [Date] [on] [This month] ○

#### Type:

■ **Aggregation:** Sum

■ **Aggregated field:** Amount

- **Group by:** Category
- **Visualize:** Choose a Pie Chart or Bar Chart.
- Save the report and add it to your dashboard.

### 1. Create a Report for Expenses by Family Member:

- Create another new report.
- **Data:**

■ **Table:** Expense

- **Filter:** [Date] [on] [This month] ○
- Type:**
  - **Aggregation:** Sum
  - **Aggregated field:** Amount ○
- Group by:** Family Member
- **Visualize:** Use a Bar Chart.
- Save the report and add it to your dashboard.
- 2. **Create a Report for Total Annual Expenses:**
  - Create a third report.
  - **Data:**
    - **Table:** Expense
    - **Filter:** [Date] [on] [This year] ○
  - Type:**
    - **Aggregation:** Sum
    - **Aggregated field:** Amount
- Save the report and add it to your dashboard as a single score report.

## Part 5: User Access and Roles

For a family application, you'll want to ensure only family members can view and add expenses.

1. **Create a new Role:**
  - In the Application Navigator, search for "Roles" and click **Roles**. ○ Click **New** and create a role called family\_member.
2. **Assign Roles to Users:**
  - Navigate to **User Administration > Users**.
- Select a user and add the family\_member role to their account.
3. **Secure the Application:**
  - In Studio, go to your application.
- In the Application Navigator, find your new Expense table.
  - Click on **Access Controls**.
  - Create new Access Control records to restrict read, write, and create operations on the Expense table to users with the family\_member role.

This documentation provides a foundational structure. For a more advanced application, you could add features like:

- A workflow for expense approval (e.g., a manager or parent's approval).

- Monthly budgeting targets.
- Automated notifications.
- Integration with other systems for data import