Project Documentation

1. Introduction

Project Title:	Calculating Family Expenses Using ServiceNow
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2. Project Overview

Purpose:

The purpose of this project is to develop a centralized system for tracking and managing family expenses using ServiceNow. The system helps families record daily expenses, analyze spending patterns, and improve budgeting decisions.

Features:

• Daily expense entry

• Expense categorization

• Automatic expense calculation

• Monthly expense summary

• Dashboard and reporting

• Multi-user access for family members

3. System Architecture

Application Platform:

The application is developed on the ServiceNow platform using App Engine Studio.

Backend Logic:

Business rules and flows automate expense calculations and data updates.

Database:

Custom tables store family expense and daily expense records, maintaining relationships for reporting and tracking.

4. Setup Instructions

Prerequisites:

• ServiceNow Developer Account

• Active ServiceNow Instance

• Basic ServiceNow administration access

Installation Steps:

• Create ServiceNow developer instance.

• Create update set for project.

• Create custom tables and forms.

• Configure relationships and business rules.

• Test data entry and reports.

5. Application Structure

Family Expenses Module:

Stores total daily expenses and summaries.

Daily Expenses Module:

Stores individual expense entries for each family member.

Forms and Reports:

Forms allow expense entry while reports display summaries.

6. Running the Application

• Log in to ServiceNow instance.

• Navigate to Family Expenditure module.

• Add daily expenses.

• View updated expense summaries and reports.

7. Module Documentation

Family Expenses Table:

Stores summarized expense data per date.

Daily Expenses Table:

Stores detailed expense entries including date, amount, and comments.

Business Rules:

Automatically update totals when daily expenses are added or updated.

8. User Roles and Access

Roles are configured to allow family members to enter expenses while administrators manage reports and configurations.

9. User Interface

The interface includes:

• Expense entry forms

• Expense summary lists

• Dashboards and reports

Screenshots of forms and reports can be included in the final submission.

10. Testing

Testing involved entering sample expense data and verifying automatic calculation and report generation.

11. Screenshots or Demo

Screenshots or demo videos showing expense entry and report generation can be added in submission folders.

12. Known Issues

• Manual corrections may be required if incorrect expense entries are added.

• Multi-user conflict handling may require improvements.

13. Future Enhancements

• Mobile-friendly expense entry

• Expense limit alerts

• Recurring expense automation

• Advanced financial analytics