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Project Title: Calculating Family Expenses Using Service now

CALCULATING FAMILY EXPENSES USING SERVICENOW

Abstract:

This project focuses on developing a Family Expense Management using ServiceNow, a cloud-based workflow automation platform, to track and manage family and monthly expenses efficiently. By automating expense tracking and calculations, it minimizes manual effort, improves financial awareness, and provides real-time visibility into spending patterns. The application includes features like expense entry, category-wise tracking, budget limit setting, alerts, and graphical dashboards for analysis.

Introduction:

In today's fast-paced life, families often face challenges in maintaining accurate records of their daily expenditures. Manual methods such as notebooks or spreadsheets are time-consuming and prone to errors. This project leverages ServiceNow's capabilities—including custom tables, Flow Designer, and Reporting tools—to create an automated, user-friendly system for expense management. It helps users calculate total and category-wise expenses, compare them

with budgets, and visualize spending trends through dashboards.

Problem Definition:

Families lack an integrated system that automatically calculates total expenses, checks against budgets, and provides spending insights.

Manual tracking leads to:

- Data entry errors
- Difficulty in monitoring over time
- Lack of visual insights and alerts

This project solves these issues using a ServiceNow workflow-based solution.

Objectives:

- To create a custom ServiceNow application for tracking family expenses.
- To automate expense calculation and monthly budget management.
- To generate reports and dashboards showing spending patterns.
- To provide notifications when expenses exceed set limits.

System Design Overview:

The system is designed using custom ServiceNow tables and Flow Designer workflows.

Main Components:

- Expense Table (u_expense): Stores date, category, amount, payer, and description.
- Category Table (u_category): Defines categories and monthly limits.
- Budget Table (u_budget): Maintains monthly income and remaining balance.

Process flow:

1. User enters an expense record.
2. System calculates the total spent in that category for the month.
3. if total exceeds the limit → sends a notification to the family head.
4. Dashboard updates automatically with new totals and graphs.

Features:

- Add, edit, and delete expenses
- Category-based expense grouping
- Monthly budget limit setup
- Real-time calculation of total expenses
- Visual dashboards (Pie/Bar charts)

- Notification alerts when overspending occurs

Implementation Tools:

- Platform: ServiceNow
- Modules Used: Table Builder, Form Designer, Flow Designer, Reporting, Notifications
- Language: JavaScript (for Business Rules and Client Scripts)
- Data Storage: ServiceNow internal database

Results And Output:

- Automated monthly expense summary
- Visual reports for category-wise spending
- Budget comparison and alerts
- Centralized dashboard for family financial overview

Conclusion:

The project successfully demonstrates how ServiceNow can be used beyond traditional IT workflows — to build a practical, real-life financial management application.

It provides an easy way for families to track and calculate their expenses automatically, reducing manual work and improving budget discipline.

Future enhancements can include AI-based spending predictions, integration with Google Sheets, or a mobile-friendly portal interface.