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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. It allows users to track and manage daily 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.