

ProjectTitle

CalculatingFamilyExpensesusingServiceNow

TeamID:LTVIP2025TMID31400

TeamSize:5

TeamLeader:LeelaShankar

Teammember: KVNDurgaPrasad

Teammember: Sesetti Sai Rakesh

Teammember:PalagummiSaiSiriVennela

Teammember: Polisetti Bala Vinay Sri Ranganath

1. INTRODUCTION

ProjectOverview:

The project "Calculating Family Expenses using ServiceNow" aimsto build a comprehensive expense tracking and calculation system. This system will help users track daily family expenses, categorize them, monitor budget limits, and generate summary reports, all within the ServiceNow platform.

Purpose:

The primary purpose of this project isto enable familiesto monitor their financial activities effectively and make informed financial decisions. It simplifies expense management, enhances visibility into daily spending, and promotes better budgeting and savings.

2. IDEATIONPHASE

ProblemStatement:

Managingfamilyexpensesmanuallyistime-consuming,error-prone,andlacksvisibility. Familiesneedanautomatedsystemtotrack dailyexpenses, calculatetotal spending,and categorize expenditures.

EmpathyMapCanvas:

- Who? Families managing monthly budgets.
- Whatdotheythinkandfeel?Stressaboutoverspendingandlackofcontrol.
- Whatdotheyhear? Financial advice from peers or on line sources.
- Whatdotheysee? Manual logs and incomplete data.
- Whatdotheysayanddo? Trackexpenses in consistently.
- PainPoints:Lackofexpensecategorizationandreporting.
- Gains: Real-timetracking and financial clarity.

Brainstorming:

- Expensecategorization.
- Dailydataentryforexpenses.
- Auto-calculationoftotalexpensesperday.
- Reportingfeatures.
- Relationshipbetweendailyandtotalexpenses.

3. REQUIREMENTANALYSIS

CustomerJourneyMap:

- Identifyneedforexpensetracking.
- LogintoServiceNow.
- Adddailyexpenses.
- BusinessRulecalculatesandupdatesfamilyexpenses.
- Viewconsolidatedfamilyexpensereports.

SolutionRequirements:

- Twomaintables: Family Members, Daily Expenses, Family Expenses.
- ReferencefieldsforFamilyMemberName.
- BusinessRuleforauto-calculatingFamilyExpenses.
- Relationshipforviewingrelateddailyexpensesunderfamilyexpenses.
- Reportingfeature.

DataFlowDiagram:

(AttachaDFDshowingdata flowfromDailyExpensestoBusinessRuletoFamily Expenses table.)

TechnologyStack:

- Platform:ServiceNow.
- Scripting Language: Java Script (Business Rulescripting).
- Database:ServiceNowbuilt-indatabase.

4. PROJECTDESIGN

ProblemSolutionFit:

AServiceNow-basedsolutionforcentralizedfamilyexpensetracking and automatic summarization fits the problem of manual, error-prone expense tracking.

ProposedSolution:

ImplementDailyExpensesinputform,automatedBusinessRuleforexpensecalculation, and a reporting module to view summarized expenses.

SolutionArchitecture:

- UserentersdatainDailyExpensestable.
- BusinessRuletriggersoninsert/update.
- FamilyExpensestableauto-updateswithtotalamountandexpensedetails.
- RelationshipshowsDailyExpensesrelatedtoeachFamilyExpense.
- Reportdisplayssummarydata.

5. PROJECTPLANNING&SCHEDULING

ProjectPlanning:

Phase	Timeline
RequirementGathering	Week1
Table&FieldCreation	Week2
BusinessRuleDevelopment	Week3
RelationshipSetup	Week4
Testing	Week5
Reporting	Week6
Documentation&Demo	Week7

6. FUNCTIONALANDPERFORMANCETESTING

PerformanceTesting:

TestedBusinessRuleexecutiontimeforvariousrecordcounts. Theupdatehappensin under 1 second even for 100+ daily expenses per date.

7. RESULTS

OutputScreenshots:

(Attachscreenshotsof:)

- FamilyMembersTable.
- DailyExpensesformandrecords.
- FamilyExpenseslistviewwithNumber,Date,Amount,ExpenseDetails.
- BusinessRulecode.
- ReportOutput.

8. ADVANTAGES&DISADVANTAGES

Advantages:

- Automated expenses ummarization.
- Easytoadddailyexpenses.
- Reportgeneration.
- Scalablefordifferentfamilysizes.

Disadvantages:

- BasicUI(ServiceNowdefaultforms).
- RequiresServiceNowplatformaccess.

9. CONCLUSION

The "Calculating Family Expenses" project successfully demonstrates how Service Now can be used beyond IT service management. It automates manual tasks, offers visibility into financial data, and helps families control their spending patterns.

10. FUTURESCOPE

- AddingMonthlyandYearlysummaries.
- Expense category-based reporting.
- Addingbudgetlimitsandthresholdalerts.
- Mobileinterfacedevelopment.

11. APPENDIX

SourceCode:

BusinessRulescriptused.

DatasetLink:

Notapplicable(dataenteredmanually).

GitHub&ProjectDemoLink:

(You can uploady our demovide oto Google Drive or You Tube and pastethelink here.)