

Phase 1: Ideation Document

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| DATE | 31 OCTOBER 2025 |
| TEAM ID | NM2025TMID00189 |
| PROJECT NAME | Calculating Family Expenses using ServiceNow |

1. Problem Statement:

Managing family expenses manually through notes or spreadsheets is timeconsuming and prone to errors. This project aims to streamline household financial tracking and improve budgeting accuracy.

2. Proposed Solution:

The system allows users to log daily expenses, categorize them, and automatically update total amounts. It leverages ServiceNow business rules to compute totals and provide expense visibility.

3. Objectives:

- To automate family expense tracking.
- To provide an organized platform for managing daily expenses.
- To auto-calculate total expenses using Business Rules.
- To generate consolidated expense view per family member.
- To improve financial planning and transparency.

4. Scope of the Project:

5. Tools & Technologies:

| Category | Tools |
|---|--------------------------------|
| Included (In-Scope) | Excluded (Out-of-Scope) |
| Manual expense entry | Bank API integration |
| Automatic total update using Business Rules | Online payments |
| Family member-wise tracking | Mobile application |
| Expense summary & reports | AI-based prediction |

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|-----------------|-----------------------------|
| Platform | ServiceNow Zurich Patch-2 |
| Web | Browser-based interface |
| Scripting | JavaScript (Business Rules) |
| Version Control | GitHub |
| Documentation | WPS document / PDF |

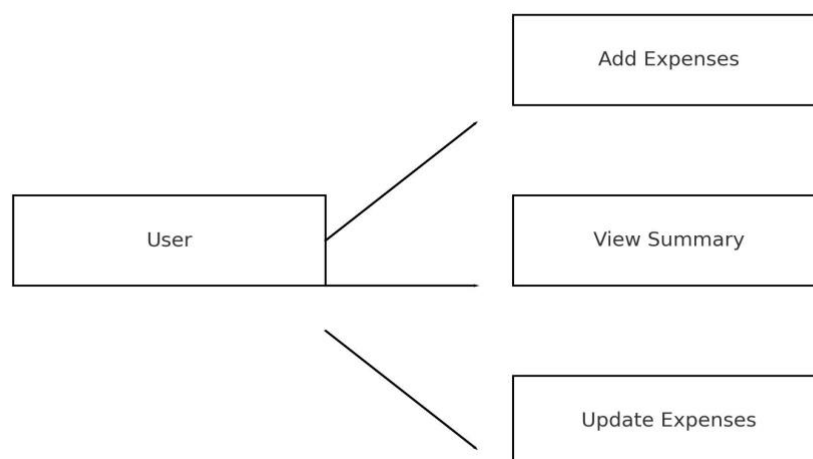
6. Target Users:

- Family members managing expenses
- Parents tracking daily household spending
- Students learning ServiceNow project development

7. Expected Outcome:

- Simple UI for daily expense entry
- Automatic family expense calculation
- Single dashboard to view total expenses
- Improved household budgeting and financial clarity

8. Use Case Diagram:



9. Success Metrics:

| Criteria | Goal |
|---------------|-----------------------|
| Expense entry | Smooth and error-free |

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|-----------------|----------------------|
| Auto Update | Correct & real-time |
| User experience | Simple and efficient |

10. Deliverables:

- ServiceNow app
- GitHub report files
- Documentation
- Screenshot proof

11. References:

- ServiceNow Developer Portal - <https://developer.servicenow.com/>
- ServiceNow Documentation - <https://docs.servicenow.com/>
- Naan Mudhalvan Portal - <https://www.naanmudhalvan.tn.gov.in/>
- ServiceNow Training Modules - <https://developer.servicenow.com/dev.do#!/learn>