PROJECT DESIGN

TEAM ID	LTVIP2025TMID30762	
PROJECT NAME	CALCULATING FAMILY EXPENSES	
	USING SERVICENOW	

Proposed Solution:

Project team shall fill the following information in the proposed solution template

S.no	Parameter	Description		
1	Problem statement	1 Problem		
	(problem to be	statement		
	solved)	(problem to be		
		solved) While		
		ServiceNow is a		
		powerful platform		
		primarily used for		
		enterprise		
		workflows and IT		
		service		
		management, it's		
		not typically		
		designed for		
		calculating		
		personal family		
		expenses., you		
		could potentially		
		adapt some		
		ServiceNow		
		features or build a		
		custom application		
		within the platform		
		to track and		
		manage household		
		finances. This		

		would involve creating custom
		tables, workflows,
		and potentially
		using scripting to
		handle calculations.
2	Idea / Solution	The core concept
	description	involves using
		ServiceNow's
		financial
		management
		features like Cost
		Management,
		which includes
		expense lines and
		allocation rules, to
		categorize and
		track spending. This
		can be achieved by
		setting up a "family
		budget" project
		within ServiceNow
		and using expense
		lines to represent
		different spending
		categories
3	Novelty/Uniquenes	the platform's
	s	flexibility allows for
		customization to
		build such a
		system. Users could
		leverage
		ServiceNow's
		workflows,
		reporting, and

4	Social Impact/Customer satisfaction	potentially its app development capabilities to create a personalized family expense management system. ServiceNow can significantly improve customer satisfaction and potentially impact family expenses by streamlining customer service processes and enhancing efficiency. ServiceNow can
		improve issue resolution, and offer personalized support, leading to
		increased customer loyalty and potentially lower
		costs associated with acquiring new customers.
5	Business model (Revenue Model)	This involves creating a system to track income and expenses,

		spending, set budgets, and analyze financial data, all within the ServiceNow platform. This leverages ServiceNow's features for workflow automation, data management, and reporting.
6	Scalability of the Solution	ServiceNow can be scaled for managing family expenses, but it requires careful planning and configuration. While designed for enterprise-level workflows, its flexibility allows for adaptation to individual or family needs.

Family expenses

What is family?

"Family matters" broadly refers to anything that concerns a family unit and its members. This includes relationships, conflicts, decisions, and events that impact the family as a whole or individual members. It can encompass a wide range of situations, from everyday occurrences like childcare or attending family events to more serious issues like disputes, legal proceedings related to family law, or even personal matters that affect the family dynamic.

Types:

Family matters encompass a wide range of legal and personal issues concerning family relationships, including marriage, divorce, child custody, support, and adoption. These matters are often addressed in family court and can involve disputes related to domestic violence, property division, and other family-related legal issues.

Milestone 1: setting up service now instance

Purpose:

ServiceNow's capabilities can be leveraged to track and manage family expenses, although it's not a typical use case. While ServiceNow is primarily used for enterprise-level IT and business management, its core functionality of tracking costs and creating expense lines can be adapted to manage household finances. This involves creating expense categories, recording individual transactions as expense lines, and potentially using the platform's reporting features to analyze spending patterns.

Uses:

ServiceNow can be used to manage and calculate family expenses, primarily through its Expense Management and Finance

Management modules. These tools allow for tracking, categorization, and reporting of expenses, providing insights into spending patterns and helping with budgeting. While not specifically designed for personal finance, ServiceNow's functionalities can be adapted to track and analyze household expenses.

Activity 1: setting up service now instances

Steps:

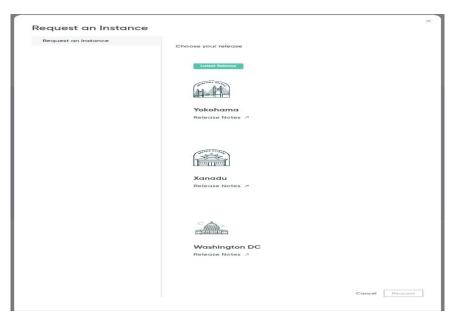
- 1. Sign up for a developer account on the ServiceNow Developer site "https://developer.servicenow.com".
- 2. Once logged in, navigate to the "Personal Developer Instance" section.
- 3. Click on "Request Instance" to create a new ServiceNow instance.
- 4. Fill out the required information and submit the request.
- 5. You'll receive an email with the instance details once it's ready.
- 6. Log in to your ServiceNow instance using the provided Milestone 2: creation of new update set

Purpose:

To create a new update set in ServiceNow, navigate to System Update Sets > Local Update Sets, then click New. Give the update set a descriptive name (often incorporating a user story number), select the appropriate application scope (e.g., Global), and save the record

Uses:

ServiceNow, an update set is used to capture and move customizations from one instance to another. It acts as a container for changes like form modifications, business rules, and workflows. This allows developers to bundle these changes and deploy them to other environments, such as testing or production.



Milestone 2: creation of new update set

Purpose:

To create a new update set in ServiceNow, navigate to System Update Sets > Local Update Sets, then click New. Give the update set a descriptive name (often incorporating a user story number), select the appropriate application scope (e.g., Global), and save the record

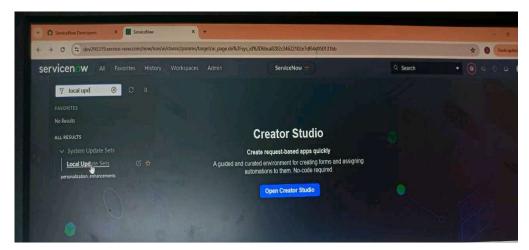
Uses:

ServiceNow, an update set is used to capture and move customizations from one instance to another. It acts as a container for changes like form modifications, business rules, and workflows. This allows developers to bundle these changes and deploy them to other environments, such as testing or production.

Activity 1: creation of new update set

Steps:

Go to All >> In the filter search for Local Update set > click on
 New.

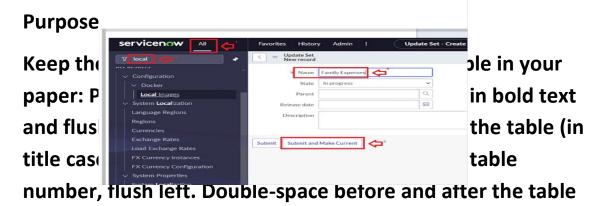


Enter the Details as:

Name: Family Expenses

• Then click on Submit and Make current.

Milestone 3: creation of table



Uses:

Tables are used to organize and display data in a structured format, using rows and columns. In various contexts, tables

are created for different purposes, including data management in databases, content presentation in documents, and data analysis.

Activity 1: creation of family expenses table

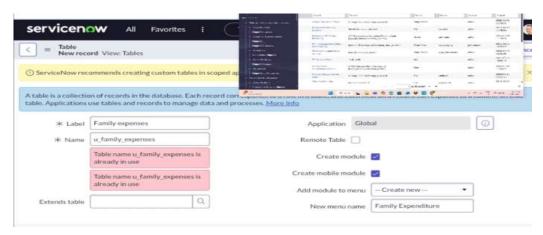
Steps:

- 1. Go to All > In the filter search for Tables > click on New.
- 2. Enter the Details:

Label : Family Expenses

Name: Auto-Populated

New menu name: Family Expenditure



Go to the Header and right click there>> click on Save.

Milestone 3: creation of table

Purpose:

A family expense table, often part of a larger family budget, systematically lists all anticipated costs, categorized by type, to help track and manage spending. It typically

includes income sources and a breakdown of expenses into fixed and variable categories, with the goal of achieving financial stability and meeting savings goals.

Uses:

It involves listing income sources, categorizing expenses (needs vs. wants), and comparing total income with total expenses to determine if adjustments are needed.

Activity 2: creation of columns (fields)

- Near Columns Double click near insert a new row
- Give the details as
- Column label: Number
- Type : String
- Double click on insert a new row again
- Give the details as
- Column label : Date
- Type : Date
- Double click on insert a new row again
- Give the details as
- Column label : Amount
- Type: Integer
- Double click on insert a new row again

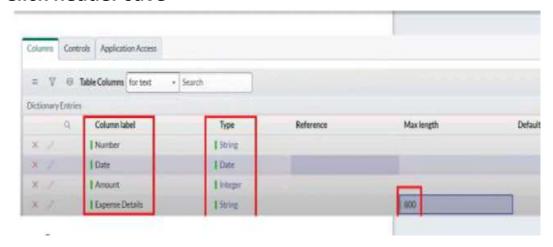
Give the details as:

Column label : Expense Details

• Type: String

Max length:800

Click header save



Milestone 3: creation of table

Activity 3: making field and auto-number

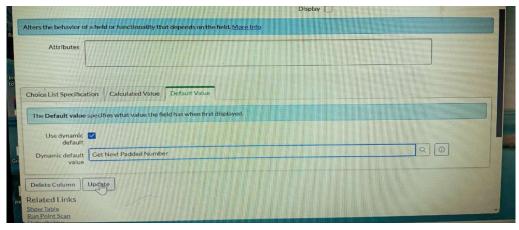
Steps:

- Double click on the Number Field/Column.
- Go down and double click on Advanced view
- In Default Value:

Use dynamic default : check the box

Dynamic default value: Get Next Padded Number

Click on Update.



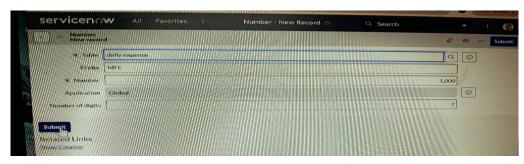
Go to All >> In the filter search for Number
 Maintenance >> select Number Maintenance

• Click on New.

• Enter the below Details:

Table: Family Expenses

Prefix: MFE



• Click on Submit.

Milestone 3: creation of table

Activity4: configure the form

Steps:

1. Configure the Form

- Go to All >> In the filter search for Family Expenses >>
- 3. Click on New
- 4. Go to the Header and right click there>> click on Configure >> Select Form Design
- 5. Customize or Drag Drop the form as per your requirement
- 6. Make Number Read-Only Field by clicking on the gear icon and checking Read-Only
- 7. Make Date, Amount Mandatory Field by clicking on the gear icon and checking Mandatory
- 8. Click on Save.



Milestone 3: creation of table

Activity 3: making field and auto-number

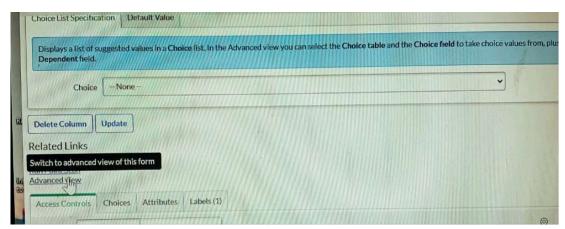
- Double click on the Number Field/Column.
- Go down and double click on Advanced view

In Default Value:

Use dynamic default : check the box

Dynamic default value: Get Next Padded Number

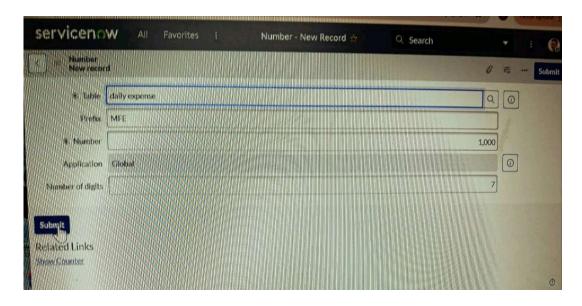
• Click on Update.



- Go to All >> In the filter search for Number
 Maintenance >> select Number Maintenance
- Click on New.
- Enter the below Details:

Table : Family Expenses

Prefix: MFE



Click on Submit.

Milestone 3: creation of table

Activity4: configure the form

- 1. Configure the Form
- 2. Go to All >> In the filter search for Family Expenses >> Open Family Expenses
- 3. Click on New
- 4. Go to the Header and right click there>> click on Configure >> Select Form Design
- 5. Customize or Drag Drop the form as per your requirement
- 6. Make Number Read-Only Field by clicking on the gear icon and checking Read-Only

- 7. Make Date, Amount Mandatory Field by clicking on the gear icon and checking Mandatory
- 8. Click on Save.



Milestone 4: creation of table (daily expenses)

Purpose:

Daily expenses are the everyday costs associated with maintaining a household or personal life. These include costs for necessities like housing, food, transportation, utilities, and healthcare, as well as discretionary spending on things like entertainment or personal care. Tracking and managing daily expenses is important for budgeting and financial planning.

Uses:

Daily expenses encompass the everyday costs of living and include necessities like food, transportation, utilities, and housing, as well as discretionary spending on entertainment and personal care. Tracking these expenses, whether through budgeting apps or simple spreadsheets, is crucial

for financial management, enabling individuals to identify areas where they can cut costs, save more, and achieve financial goals.

Activity1: creation of daily expenses table

Steps:

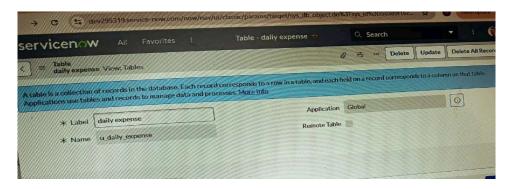
- 1. Go to All > In the filter search for Tables > click on New.
- 2. Enter the Detail

Label : Daily Expenses

Name: Auto-Populated

Add Module to menu: Family Expenditure

3. Go to the Header and right click there>> click on Save.



Milestone 4: creation of table (daily expenses)

Activity 2: creation of columns (fields)

- 1. Near Columns Double click near insert a new row.
- 2. Give the details as
- 3. Column label: Number

Type: String

- 4. Double click on insert a new row again
- 5. Give the details as

Column label: Date

Type: Date

Double click on insert a new row again

1. Give the details as:

Column label: Expense

Type: Integer

- 2. Double click on insert a new row again
- 3. Give the details as:

Column label : Family Member Nam

Type: Reference

Max length: 800

Milestone 4: creation of table (daily expenses)

Activity 3: making number field an auto-number

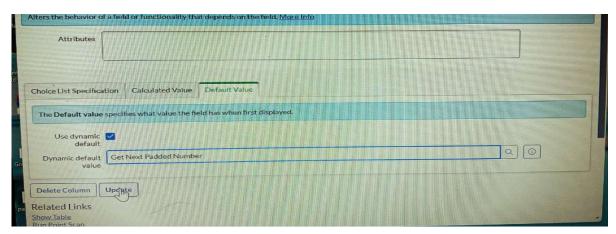
Steps:

- Double click on the Number Field/Column.
- Go down and double click on Advanced view
- In Default Value:

Use dynamic default : check the box

Dynamic default value: Get Next Padded Number

Click on Update.



Go to All >> In the filter search for Number
 Maintenance >> select Number Maintenance

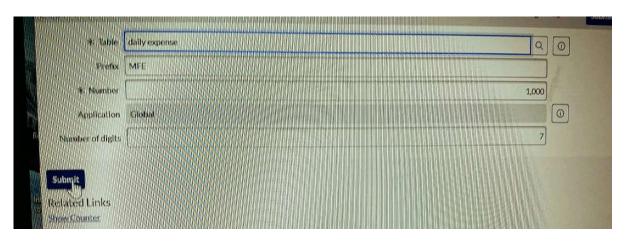
• Click on New.

• Enter the below Details

• Table : Family Expenses

• Prefix : MFE

• Click on Submit



Milestone 4: creation of table daily (expenses)

Activity 4: configure of form

Steps:

- Go to All >> In the filter search for Daily Expenses >>
 Open Daily Expenses
- Click on New
- Go to the Header and right click there>> click on
 Configure >> Select Form Design
- Customize or Drag Drop the form as per your requirement.



- Make Number Read-Only Field by clicking on the gear icon and checking Read-Only
- Make Date, Family Member Name Mandatory Field by clicking on the gear icon and checking Mandatory
- Click on Save.

Milestone 5: creation of relationship

Purpose:

The purpose of creating a relationship in writing involves crafting a believable and engaging connection between characters, whether romantic or platonic. This is achieved by developing their backstory, exploring their interactions, showcasing their communication styles, and highlighting the dynamics of their bond.

Uses:

Creating relationships is essential for both personal well-being and professional success, offering benefits like improved communication, increased trust, and emotional support. In personal life, strong relationships contribute to happiness, a sense of purpose, and potentially longer lives. In the professional sphere, relationship building facilitates teamwork, career advancement, and stronger client connections.

Milestone 5: creation of relationship

Activity 1: creation of relationship between family expenses and daily expenses table

Steps:

- Go to All >> In the filter search for Relationships >>
 Open Relationships
- 2. Click on New.
- 3. Enter the details:

Name: Daily Expenses

Applies to table : Select Family Expenses

Daily Expenses : Select Daily Expenses

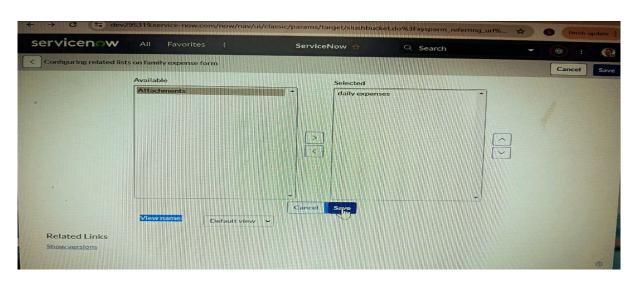
4. Click Save

Milestone6: configuring related list on family expenses

Activity 1:Configuring Related list on family expenses

Steps:

- Go to All >> In the filter search for Family Expenses >>
 Open Family Expenses
- Click on New
- Go to the Header and right click there>> click on Configure >> Select Related Lists
- Add Daily Expenses to the Selected Area
- Click on Save



Milestone7: creation of business rules

Purpose:

Serves as the primary method for expressing the logic and constraints that govern an organization's operations. It involves clearly and concisely articulating the conditions under which specific actions should be taken, using natural language to define the rules' triggers, conditions, and actions. This approach ensures that all stakeholders, regardless of technical expertise, can understand and adhere to the established guidelines.

Uses:

Business rules are used to define and enforce specific instructions and constraints within a business process. They help ensure consistency, accuracy, and efficiency by guiding decision-making and actions. These rules can be applied across various aspects of a business, impacting individuals, teams, or the entire organization.

Milestone7: creation of business rules

Activity 1: creation of business rules

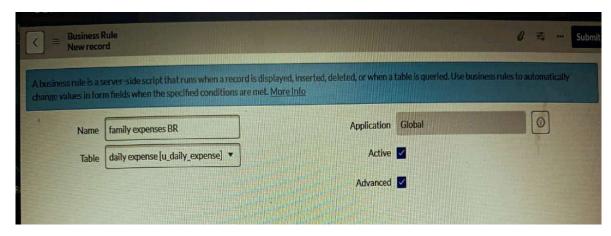
Steps:

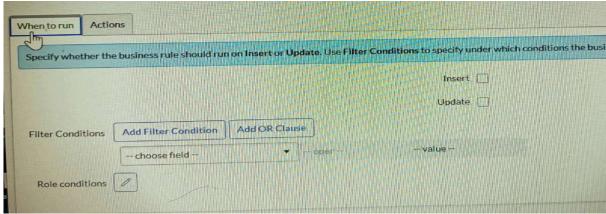
- Go to All >> In the filter search for Business Rules.
- Under System Definition Select Business Rules then click on New. Enter the Details:

Name: Family Expenses BR

Table : Select Daily Expenses

Check Advanced





- When to run Check Insert and Update
- 5. In Advance(we write the code): Write the below code > (function execute Rule(current, previous /*null when sync*/) {

var Family Expenses = new Glide
Record('u_family_expenses');

FamilyExpenses.addQuery('u_date',current.u_date);

FamilyExpenses.query();

if(FamilyExpenses.next())

```
{
FamilyExpenses.u amount += current.u expense;
FamilyExpenses.u_expense_details +=
">"+current.u_comments+":"+"Rs. "current.u_expense+"/-
FamilyExpenses.update();
}
else
{
var NewFamilyExpenses.insert = new Glide
Record('u_family_expenses');
NewFamilyExpenses.u date = current.u date;
NewFamilyExpenses.u amount = current.u expense;
NewFamilyExpenses.u expense details +=
">"+current.u comments+":"+"Rs. "current.u expense+"/-
";
NewFamilyExpenses.insert();
}
})(current, previous);
Milestone 8: configure of relationship
Purpose:
```

Purpose in literature is the ordinary form of written or spoken language, characterized by its grammatical structure and lack of metrical or rhyming patterns found in poetry. It's the common way we communicate ideas, stories, and information in a straightforward and logical manner.

Uses:

When configuring relationships in a system, various aspects need to be considered, including the tables or entities involved, the type of relationship, and the specific settings that govern how the relationship behaves. This often involves defining attributes, start and end objects, and reciprocal relationships, as well as configuring display settings.

Milestone 8: configure the relationship

Activity 1: configure the relationship

- Go to All >> In the filter search for Relationships >>
 Open Relationships
- In that, open Daily Expenses Relationship.
- For Applies to table : Select Family Expenses
- In Query with : write the below Query
- (function refine Query(current, parent) {
- // Add your code here, such as Current.addQuery(field, value);

- Current.addQuery('u_date',parent.u_date);
- Current. Query();
- })(current, parent);
- Click on Update.

