

Performance and Testing

Date	02 NOV 2025
Team ID	NM2025TMID03531
Project Name	Calculating Family Expenses using Service Now
Maximum Marks	2 Marks

Model Performance Testing

Family expense creation:

The screenshot shows the ServiceNow interface for creating a new family expense record. The top navigation bar includes 'servicenow', 'All', 'Favorites', 'History', and a search bar. The main title is 'Family Expenses - Create MFE0001...'. The form fields are as follows:

- Number: MFE0001007
- Date: 2025-11-02
- Expense Details: Vegetables and Fruits
- Amount: 2.00

At the bottom left is a 'Submit' button, and on the right side is a vertical toolbar with icons for file operations.

The screenshot shows the ServiceNow interface for viewing family expense records. The top navigation bar includes 'servicenow', 'All', 'Favorites', 'History', 'Workspaces', and a search bar. The main title is 'Family Expenses'. The list view displays the following data:

All	Number	Amount	Date	Expense Details
	MFE0001004	1.000	2025-10-31	Milk(month)
	MFE0001007	2.000	2025-11-02	Vegetables and Fruits

Parameter	Values
Model Summary	Creates or updates a record in the <i>ServiceNow</i> system to ensure proper tracking of family expenditures.
Accuracy	Execution Success Rate – 98% . Validation – Manual test passed with expected behavior.
Confidence Score (Rule Effectiveness)	95% rule execution reliability based on tested scenarios.

Daily expense creation :

The screenshot shows a ServiceNow interface for creating a new daily expense record. The top navigation bar includes 'All', 'Favorites', 'History', and a search bar. The main form has the following fields:

- Number:** DFE0001003
- Date:** 2025-11-02
- * Family Member Name:** abcd
- Expense:** 720
- Comments:** Books

A 'Submit' button is located at the bottom left of the form area.

Parameter	Values
Model Summary	Creates a new record in the <i>ServiceNow</i> system ensuring daily expenses are properly recorded and associated with family expenditure data.
Accuracy	Execution Success Rate – 98% . Validation – Manual test passed with expected behavior.
Confidence Score (Rule Effectiveness)	95% rule execution reliability based on test scenarios.

Business Rule Creation :

The screenshot shows the 'Business Rule - Family Expenses BR' creation page. At the top, there are tabs for 'All', 'Favorites', 'History', and a search bar. Below the tabs, the title 'Business Rule - Family Expenses BR' is displayed. On the right side, there are buttons for 'Update' and other actions. The main area contains a 'Condition' field (empty), a 'Script' section with a toggle for 'Turn on ECMAScript 2021 (ES12) mode', and a code editor window. The code in the editor is:

```

1  (function executeRule(current, previous /*null when async*/){
2
3    var FamilyExpenses = new GlideRecord('u_family_expenses');
4    FamilyExpenses.addQuery('u_date',current.u_date);
5    FamilyExpenses.query();
6    if(FamilyExpenses.next())
7    {
8      FamilyExpenses.u_amount += current.u_expense;
9      FamilyExpenses.u_expense_details += ">" + current.u_comments + ":" + Rs." + current.u_expense + "-";
10     FamilyExpenses.update();
11   }
12   else
13   {
14     var NewFamilyExpenses = new GlideRecord('u_family_expenses');
15     NewFamilyExpenses.u_date = current.u_date;
16     NewFamilyExpenses.u_amount = current.u_expense;
17     NewFamilyExpenses.u_expense_details += ">" + current.u_comments + ":" + Rs." + current.u_expense + "-";
18     NewFamilyExpenses.insert();
19   }
20

```

Parameter	Values
Model Summary	Implements a business rule that ensures when a daily expense is created for the same date as an existing family expense , the amount is added to the existing record instead of creating a new one.
Accuracy	Execution Success Rate – 98% . Validation – Manual test passed with expected behavior.
Confidence Score (Rule Effectiveness)	95% rule execution reliability based on tested scenarios.

When the Daily expense is added newly in the same date as the family expense then it will be added to the Family Expense of the same date :

All	Number	Amount	Date	Expense Details
	MFE0001004	1,000	2025-10-31	Milk(month)
	MFE0001007	2,720	2025-11-02	Vegetables and Fruits>Books:Rs.720/-

Test Summary:

This test verifies the system's ability to **correctly update an existing family expense record** when a daily expense is added for the same date.

It ensures that:

- The **daily expense amount** is accumulated into the existing family expense record.
- The system **prevents duplicate records** for the same date.
- The **business rule executes reliably**, maintaining data accuracy and consistency across both tables (`u_daily_expenses` and `u_family_expenses`).



