

## Phase 5: Performance Testing

DATE	1 NOVEMBER 2025
TEAM ID	NM2025TMID06233
PROJECT NAME	Calculating Family Expenses using ServiceNow

### 5.1 Testing Objective:

The objective of testing is to ensure that the Family Expense Tracker in ServiceNow works correctly, calculates totals accurately, and updates records in real-time without errors.

### 5.2 Types of Testing Performed:

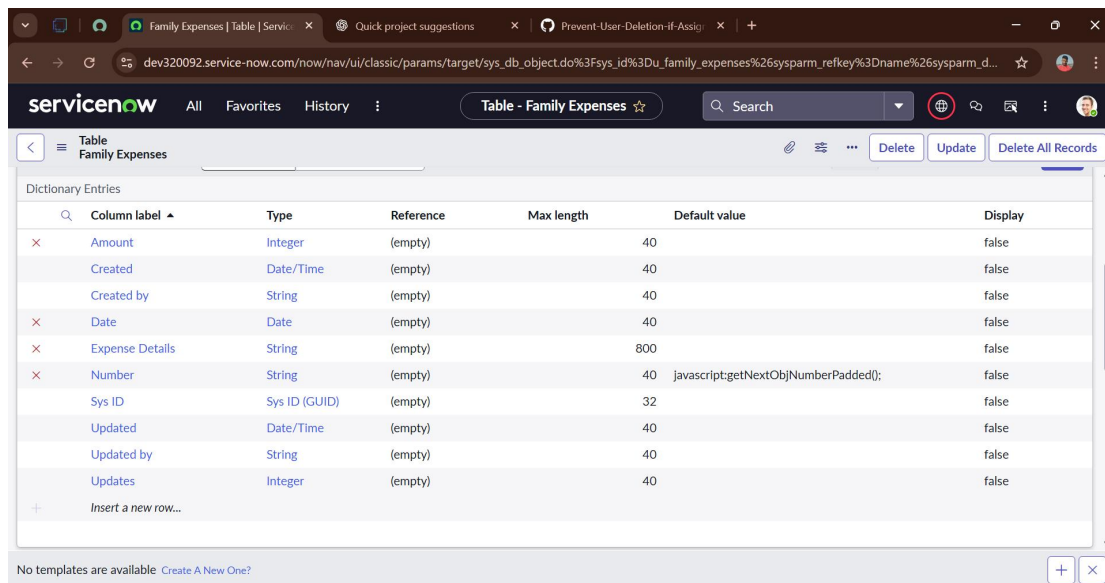
Testing Type	Description
Unit Testing	Tested each table and field individually
Functional Testing	Verified all features work as expected
Integration Testing	Checked link between Daily Expense & Family Expense tables
Validation Testing	Ensured mandatory fields & correct data entry
Performance Testing	Verified system updated totals instantly
User Acceptance Testing (UAT)	Ensured the solution is user-friendly & meets objectives

### 5.3 Test Cases:

Test Case ID	Test Description	Input	Expected Output	Result
TC-01	Add daily expense record	Dad → 1000	Record saved	Passed
TC-02	Add another daily expense	Dad → 2000	Total = 3000	Passed
TC-03	Add expense for another member	Mom → 500	Record saved	Passed
TC-04	Check total for Mom	Mom → 500	Correct total	Passed



## 5.6.2 Family Expense Table:

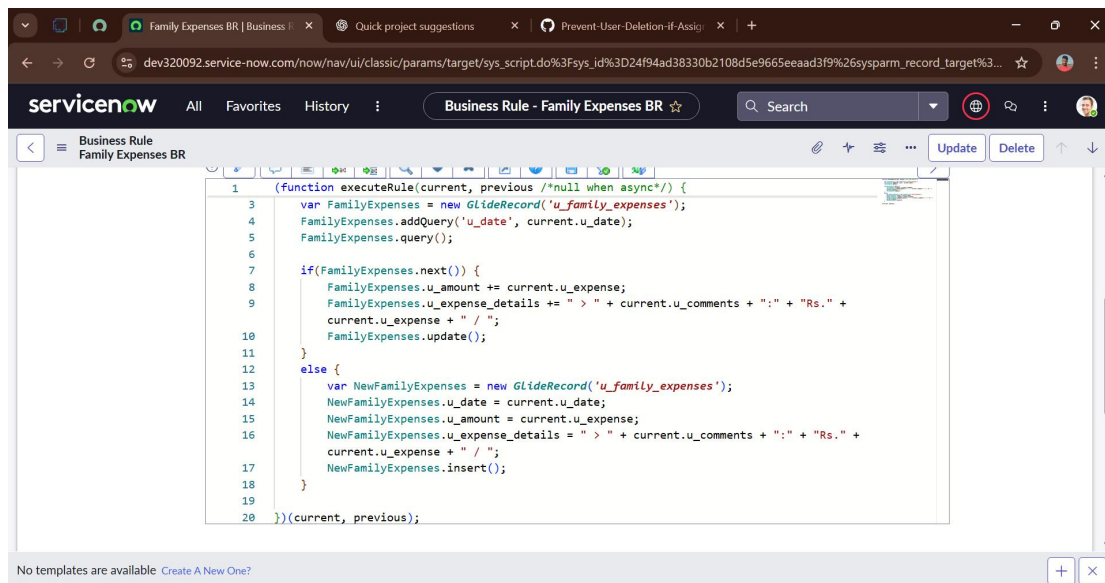


The screenshot shows the ServiceNow interface for editing the 'Family Expenses' table. The 'Dictionary Entries' section is expanded, displaying a list of fields with their respective types, references, lengths, and default values.

Column label	Type	Reference	Max length	Default value	Display
Amount	Integer	(empty)	40		false
Created	Date/Time	(empty)	40		false
Created by	String	(empty)	40		false
Date	Date	(empty)	40		false
Expense Details	String	(empty)	800		false
Number	String	(empty)	40	javascript:getNextObjNumberPadded();	false
Sys ID	Sys ID (GUID)	(empty)	32		false
Updated	Date/Time	(empty)	40		false
Updated by	String	(empty)	40		false
Updates	Integer	(empty)	40		false

At the bottom, there is a button to 'Insert a new row...' and a message stating 'No templates are available'.

## 5.6.3 Business Rules Script:



The screenshot shows the ServiceNow Business Rule Editor for the 'Family Expenses BR'. The script is a JavaScript function that executes when a record is updated. It checks if the 'u\_expense' field is present and updates the 'u\_expense\_details' field accordingly.

```
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
7   if(FamilyExpenses.next()) {
8     FamilyExpenses.u_amount += current.u_expense;
9     FamilyExpenses.u_expense_details += "> " + current.u_comments + ":" + "Rs." +
10     current.u_expense + " / ";
11     FamilyExpenses.update();
12   }
13   else {
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." +
18     current.u_expense + " / ";
19     NewFamilyExpenses.insert();
20   }
21 })(current, previous);
```

At the bottom, there is a button to 'Create A New One' and a message stating 'No templates are available'.

### 5.6.4 Input in Daily Expenses

Daily Expenses | ServiceNowQuick project suggestionsPrevent-User-Deletion-If-Assig

dev320092.service-now.com/now/nav/ui/classic/params/target/u\_daily\_expenses\_list.do

servicenowAllFavoritesHistoryAdminDaily ExpensesSearch

Daily ExpensesNumberSearchActions on selected rows...New

All

	Number	Date	Expense	Comments
<input type="checkbox"/>	DEF0001019	2025-10-30		1,000 Dad
<input type="checkbox"/>	DEF0001023	2025-10-29		100
<input type="checkbox"/>	DEF0001022	2025-10-31		500 Mom
<input type="checkbox"/>	DEF0001018	2025-10-30		2,000 Dad

1 to 4 of 4

### 5.6.5 Output in Family Expenses:

Family Expenses | ServiceNowQuick project suggestionsPrevent-User-Deletion-If-Assig

dev320092.service-now.com/now/nav/ui/classic/params/target/u\_family\_expenses\_list.do

servicenowAllFavoritesHistoryAdminFamily ExpensesSearch

Family ExpensesAmountSearchActions on selected rows...New

All

	Number	Amount	Date	Expense Details
<input type="checkbox"/>	MFE1015	100	2025-10-29	> :Rs.100 /
<input type="checkbox"/>	MFE1014	500	2025-10-31	> Mom:Rs.500 /
<input type="checkbox"/>	MFE1013	2,000	2025-10-30	> Dad:Rs.1000 / > Dad:Rs.2000 /

1 to 3 of 3