Project Report: Family Expenses Tracker using ServiceNow

1. Project Title

Family Expenses Tracker Using ServiceNow

2. Objective

The aim of this project is to design and implement a basic expense tracking application on the ServiceNow platform. It includes creating custom tables, configuring forms, automating updates using business rules, and defining relationships between tables to associate daily expenses with overall family expenses.

3. Creation of Update Set

Step:

Go to All > Local Update Sets > New

Name: Family Expenses

Click Submit and Make Current

Purpose:

The update set allows us to track all configuration changes made in this project.

4. Creation of Family Expenses Table

Steps:

• Navigate to System Definition > Tables > New

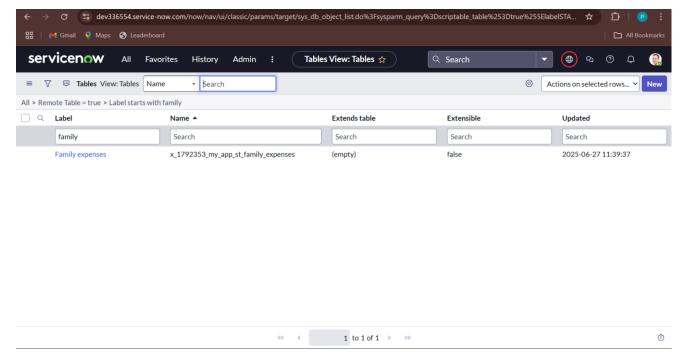
• Label: Family Expenses

• Name: Auto-generated

• Menu: Family Expenditure

Columns Created:

Column Label	Type	Max Length	Default Value
Number	String	40	javascript:getNextObjNumberPadded()
Date	Date	-	-
Amount	Integer	40	-
Expense Details	String	800	-



This table holds summarized daily expenses by date. The Number field is auto-generated.

5. Configuring Family Expenses Form

Steps:

- Navigate to Family Expenses > Configure > Form Design
- Arrange fields using drag & drop
- Set Number field as Read-Only
- Set **Date** and **Amount** fields as Mandatory

6. Creation of Daily Expenses Table

Steps:

• Navigate to System Definition > Tables > New

• Label: Daily Expenses

• Menu: Family Expenditure

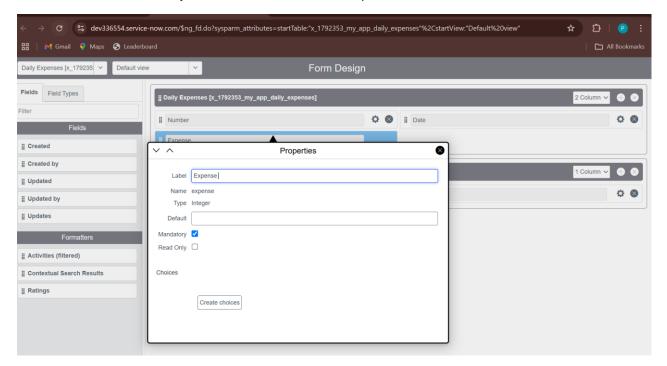
Columns Created:

Column Label	Туре	Max Length	Default Value
Number	String	40	javascript:getNextObjNumberPadded()
Date	Date	-	-
Expense	Integer	-	-
Family Member Name	Reference	800	-
Comments	String	800	-

7. Configuring Daily Expenses Form

Steps:

- Navigate to Daily Expenses > Configure > Form Design
- Arrange fields properly
- Set Number as Read-Only
- Set Date and Family Member Name as Mandatory

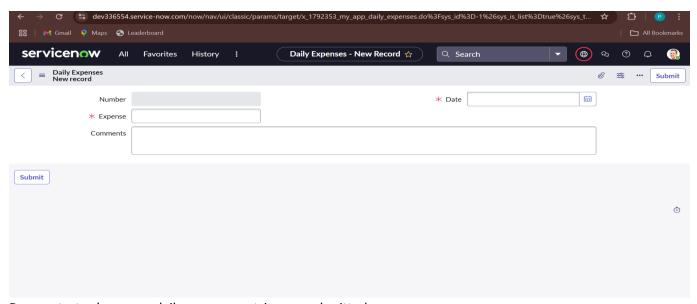


Simplifies user input and maintains form integrity.

8. Creating a Daily Entry

Step:

- Navigate to Daily Expenses > New
- Enter sample values



Demonstrates how new daily expense entries are submitted.

9. Creating Relationship Between Tables

Steps:

Go to System Definition > Relationships > New

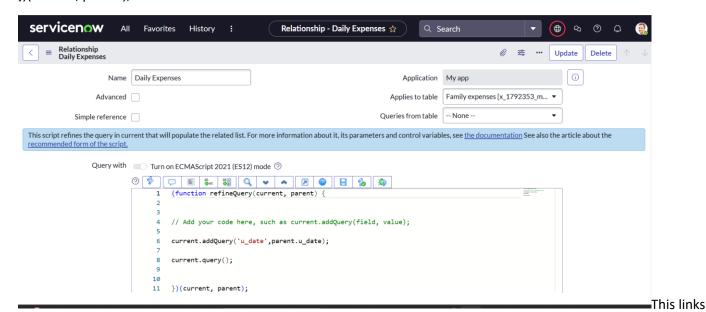
• Name: Daily Expenses

Applies to Table: Family Expenses

Queries from Table: Daily Expenses

Script Used:

```
(function refineQuery(current, parent) {
  current.addQuery('u_date', parent.u_date);
  current.query();
})(current, parent);
```



Daily Expenses with Family Expenses for the same date.

10. Configuring Related List

Steps:

- Go to Family Expenses > Configure > Related Lists
- Add Daily Expenses as related list

Purpose:

To view all related daily entries from within a family expense record.

11. Business Rule Creation

Steps:

• Go to System Definition > Business Rules > New

Name: Family Expenses BR

• Table: Daily Expenses

Check Advanced, and choose Insert + Update

Script Used:

```
(function executeRule(current, previous /*null when async*/) {
 var FamilyExpenses = new GlideRecord('x_1792353_my_app_st_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 = new GlideRecord('x_1792353_my_app_st_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);
```

Explanation:

Automatically updates or inserts a family record when a daily entry is made.

12. Conclusion

This ServiceNow guided project allowed for hands-on experience in:

- Creating and customizing tables
- Managing data relationships
- Automating updates with business rules
- Designing forms for efficient data entry

The application successfully tracks family expenses by consolidating daily entries and generating summaries.