

**CALCULATING FAMILY EXPENSES USING
SERVICE NOW**

NAAN MUDALVAN PROJECT

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INTRODUCTION

Managing family expenses is one of the most important aspects of financial planning, yet it is often overlooked or handled in unstructured ways like handwritten notes or spreadsheets. Families frequently face challenges such as overspending, lack of budget control, and difficulty in analyzing where their money goes. To address these issues, technology can play a vital role by providing structured, automated, and user-friendly solutions.

This project, “Calculating Family Expenses Using ServiceNow,” aims to create a digital system that helps track, categorize, and manage family expenses efficiently.

ServiceNow, known for its robust workflow automation and application development capabilities, provides an excellent platform for building such a system. By leveraging ServiceNow, this project transforms expense management into a more streamlined process with features like expense categorization, daily tracking, budget limits, reporting, and automated business rules.

The system will not only simplify financial management for families but also provide real-time insights into spending patterns, allowing better decision-making. With its scalability and flexibility, the solution can be expanded to suit different family structures and even adapted for small business expense management. Ultimately, the project showcases how a powerful enterprise platform like ServiceNow can be applied beyond IT workflows to solve everyday problems in an innovative and practical way.

ABSTRACT

Expense management plays a crucial role in maintaining financial stability within families, yet traditional methods such as manual tracking or spreadsheets often lead to errors, lack of visibility, and poor decision-making. To address this challenge, this project focuses on designing and implementing a Family Expense Management System using ServiceNow.

The application leverages ServiceNow's powerful low-code development environment to create structured tables, relationships, and automated workflows for recording and analyzing expenses. Key features include categorizing expenses (such as food, utilities, and transport), maintaining family member details, linking daily transactions, and applying business rules to validate data and automate calculations. By configuring related lists and creating meaningful reports, the system provides users with a clear overview of their financial habits and budget limits.

The proposed solution not only simplifies day-to-day expense tracking but also provides real-time insights into spending patterns, enabling families to make smarter financial decisions. Furthermore, the project demonstrates the versatility of ServiceNow beyond traditional IT service management, showcasing its potential in solving practical, real-world problems.

PROBLEM STATEMENT

Managing household expenses is often a difficult and time-consuming task for families. Most families rely on manual methods such as notebooks, receipts, or spreadsheets to track their daily spending. These methods come with several challenges:

- Lack of real-time tracking of expenses.
- Difficulty in categorizing and consolidating expenses like food, utilities, rent, and transportation.
- Limited ability to analyze spending patterns or generate reports.
- High chances of errors due to manual data entry.
- No automation to alert families about overspending or exceeding budgets.

As a result, families often lose visibility into their financial flow, making it harder to control budgets or make informed financial decisions. This creates the need for a systematic, automated, and user-friendly solution to manage and calculate family expenses efficiently.

SOLUTION

The proposed solution is to build a Family Expense Management System on the ServiceNow platform. ServiceNow, being a robust low-code/no-code platform, provides all the tools required to create structured applications without needing extensive programming knowledge.

The solution involves:

- **Creating custom tables** to store family member details and daily expenses.
- **Defining relationships** between family members and their respective expenses for easy tracking.
- **Configuring related lists** so that expenses linked to each family member can be viewed in one place.
- **Implementing business rules** to automate calculations, validate entries, and ensure data accuracy.
- **Generating reports and dashboards** to visualize monthly/annual spending and highlight budget deviations.
- **Using update sets** to track and migrate customizations, ensuring proper version control.

PRACTICAL USE

The Family Expense Management System built on ServiceNow helps families track, categorize, and analyze their expenses in a structured way. It simplifies budgeting, reduces errors from manual tracking, and provides real-time insights into spending patterns. Families can use it to set limits, monitor monthly expenses, and generate reports for better financial decisions. Beyond households, the same system can be adapted for small businesses to manage cash flow and daily transactions effectively, proving the versatility of ServiceNow in solving practical, non-IT problems.

KNOWLEDGE GAINED

- Learned how to set up and configure a ServiceNow developer instance for building applications.
- Understood the importance of update sets for tracking and migrating customizations.
- Gained practical skills in creating custom tables and defining fields to store structured data.
- Learned how to establish relationships between tables for linked data management.
- Practiced configuring related lists for easier navigation and record visibility.
- Understood how to create and apply business rules for automation and validations.
- Gained insights into data modeling and database concepts within ServiceNow.
- Learned how to generate reports and dashboards for real-time analysis.
- Understood how ServiceNow can be applied to non-IT use cases like family expense tracking.
- Improved overall knowledge of workflow automation and low-code development.

MILESTONE 1: SETTING UP THE SERVICE NOW INSTANCE

- Go to the official ServiceNow Developer portal: <https://developer.servicenow.com> and create a developer account.
- After signing in, open the Personal Developer Instance section from the dashboard.
- Select Request Instance to generate a fresh ServiceNow environment for development.
- Provide the necessary details (like version selection) and confirm your request.
- Wait for the confirmation email containing your instance URL and login credentials.
- Use the credentials to log in to your newly created ServiceNow instance.
- Once inside, explore the interface and begin working on the platform.

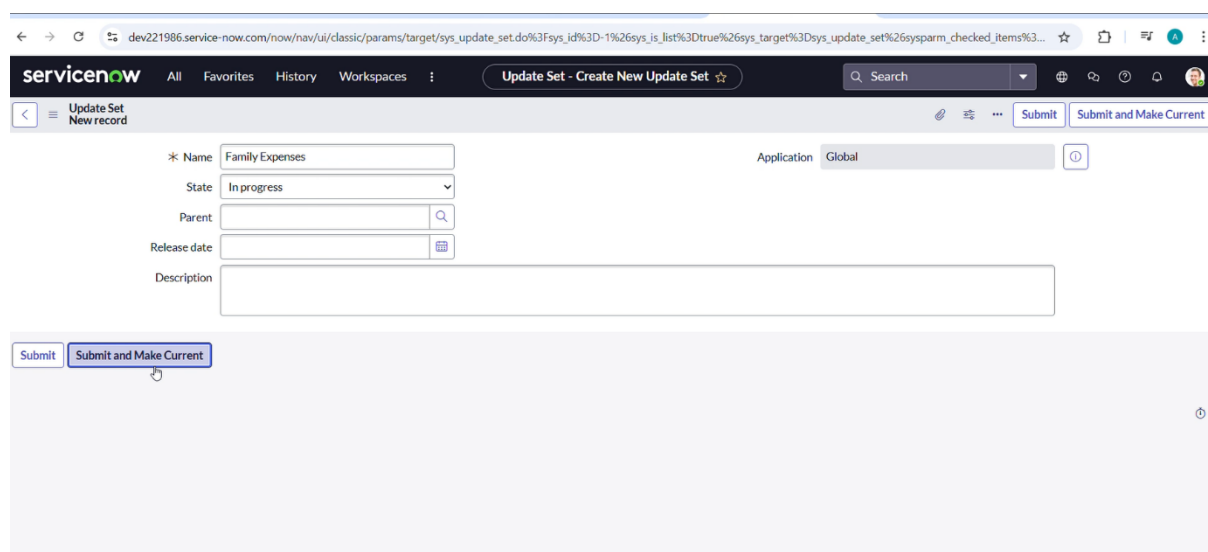
The screenshot shows the 'Manage my instance (dev221986)' page in the ServiceNow Developer portal. The page is divided into several sections:

- Status:** Shows the instance is 'Online' with a 'Refresh' button.
- Installed components:** A table showing 'App engine studio', 'Creator studio', and 'ServiceNow studio' are all 'Installed'.
- Your Current Version:** Shows 'Xanadu' with an 'Upgrade release' button.
- Instance details:** A box containing the 'Instance URL' (<https://dev221986.service-now.com/>), 'User name' (admin), 'Current password' (masked), and 'User role' (Admin).
- Useful links:** A list of links including 'Personal Developer Instance (PDI) Guide', 'PDI FAQs', 'Managing your PDI', and 'Developer advocate blog'.
- Plugins for your instance (53):** A section with a search bar and filters for 'All activation statuses' and 'All demo data statuses'.

The top navigation bar includes links for 'MyNow', 'Products', 'Industries', 'Learning', 'Support', 'Partners', and 'Company'. The left sidebar has links for 'Developer', 'Home', 'Learn', 'Reference', 'Guides', and 'Connect'. The right sidebar has a 'Give Feedback' button.

MILSTONE 2: CREATION OF NEW UPDATE SET

- Log in to your ServiceNow instance and go to the Application Navigator.
- Search for Update Sets and open Local Update Sets under *System Update Sets*.
- Click on New to create a fresh update set.
- Enter the following details:
 - Name: *Family Expenses*
 - Description: Update set to capture all configurations related to the Family Expense Management project.
- Save the record and mark it as the Current Update Set, so every change you make is tracked under this set.
- Verify that the update set is active by checking the header at the top of the screen.
- From this point forward, all customizations (tables, relationships, and business rules) will be recorded inside the *Family Expenses* update set.



The screenshot shows the ServiceNow web interface for creating a new update set. The browser address bar displays a URL starting with 'dev221986.service-now.com'. The page title is 'Update Set - Create New Update Set'. The breadcrumb trail shows 'Update Set' and 'New record'. The form contains the following fields: 'Name' (required, with an asterisk) is filled with 'Family Expenses'; 'State' is a dropdown menu set to 'In progress'; 'Parent' is a searchable field; 'Release date' is a date picker; and 'Description' is a large text area. To the right of the form, the 'Application' is set to 'Global'. At the bottom left, there are two buttons: 'Submit' and 'Submit and Make Current', with a mouse cursor hovering over the latter. A small information icon is visible in the bottom right corner of the form area.

MILSTONE 3: CREATION OF TABLE FAMILY EXPENSES

Activity 1 – Creating the Family Expenses Table

- In your ServiceNow instance, navigate to All > Tables using the filter navigator.
- Click on New to create a new table.
- Fill in the required details:
 - Label: *Family Expenses*
 - Name: (This will be auto-generated based on the label)
 - New Menu Name: *Family Expenditure*
- Save the record to create the new table.

dev221986.service-now.com/now/nav/ui/classic/params/target/sys_db_object.do%3Fsys_id%3D-1%26sys_is_list%3Dtrue%26sys_target%3Dsys_db_object%26sysparm_checked_items%3D...

servicenow All Favorites History Workspaces Admin Table - New Record Search

Table New record Submit Cancel

ServiceNow recommends creating custom tables in scoped applications. To learn more about creating scoped applications, click [here](#).

A table is a collection of records in the database. Each record corresponds to a row in a table, and each field on a record corresponds to a column on that table. Applications use tables and records to manage data and processes. [More Info](#)

* Label Family Expenses I Application Global ⓘ

* Name u_family_expenses Create module ☒

Extends table Create mobile module ☒

Add module to menu -- Create new --

New menu name Family Expenses

Columns Controls Application Access

Table Columns for text Search ⓘ

Dictionary Entries

Column label	Type	Reference	Max length	Default value	Display
Insert a new row...					

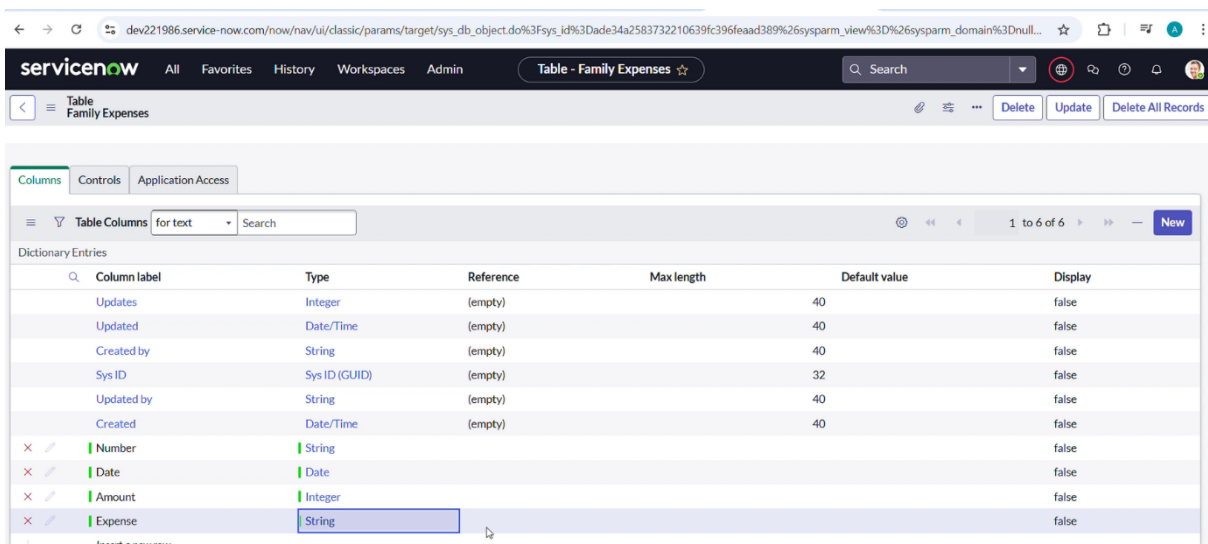
MILSTONE 3: CREATION OF TABLE FAMILY EXPENSES

Activity 2 – Adding Columns to the Family Expenses Table

Duration: 1 Hour

Skill Tags: Table Configuration, Data Modeling, ServiceNow Basics

- Open the newly created Family Expenses table.
- To add columns, double-click near the existing columns to insert a new row.
- Enter the following details one by one:
 1. Column Label: Number
 - Type: String
 2. Column Label: Date
 - Type: Date
 3. Column Label: Amount
 - Type: Integer
 4. Column Label: Expense Details
 - Type: String
 - Max Length: 800



The screenshot shows the ServiceNow interface for configuring the 'Family Expenses' table. The 'Columns' tab is selected, and the 'Table Columns' section is visible. A search bar is present above the column list. The column list includes several system-generated columns and four user-defined columns: 'Number', 'Date', 'Amount', and 'Expense'. The 'Expense' column is currently selected, and a new row is being added below it, with the 'Type' field set to 'String'.

Column label	Type	Reference	Max length	Default value	Display
Updates	Integer	(empty)	40		false
Updated	Date/Time	(empty)	40		false
Created by	String	(empty)	40		false
Sys ID	Sys ID (GUID)	(empty)	32		false
Updated by	String	(empty)	40		false
Created	Date/Time	(empty)	40		false
Number	String				false
Date	Date				false
Amount	Integer				false
Expense	String				false
Insert a new row...					

MILSTONE 3: CREATION OF TABLE FAMILY EXPENSES

Activity 3 – Making the Number Field an Auto-Number Open the Family Expenses table.

- Locate the Number field/column and double-click to open its properties.
- Scroll down and switch to the Advanced view.
- In the Default Value section:
 - Check the box for *Use Dynamic Default*.
 - Set the Dynamic Default Value to *Get Next Padded Number*.
- Click Update to save the changes.

The screenshot shows the ServiceNow interface for configuring a 'Dictionary Entry - Number'. The page is in the 'Advanced' view. The 'Default Value' tab is selected, showing the 'Use dynamic default' checkbox checked and the 'Dynamic default value' set to 'Get Next Padded Number'. The 'Update' button is visible at the bottom.

dev221986.service-now.com/now/nav/ui/classic/params/target/sys_dictionary.do%3Fsys_id%3De8340a2583732210639fc396feaad3ba%26sysparm_view%3Dadvanced

servicenow All Favorites History Workspaces Dictionary Entry - Number

Dictionary Entry Number View: Advanced

* Max length 40 Mandatory Display

Attributes

Choice List Specification Calculated Value Default Value

The Default value specifies what value the field has when first displayed.

Use dynamic default ☒

Dynamic default value Get Next Padded Number

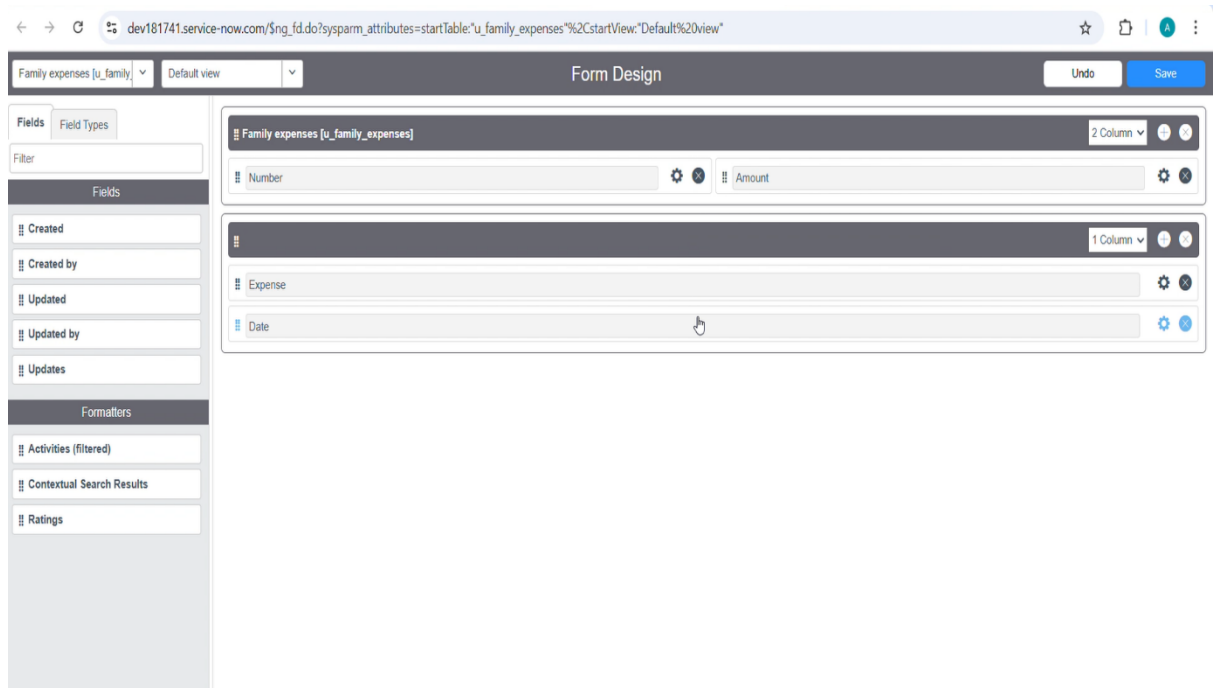
Delete Column Update

Related Links

MILSTONE 3: CREATION OF TABLE FAMILY EXPENSES

Activity 4 – Configuring the Form

- Navigate to All > in the filter, search for Family Expenses.
- Open the Family Expenses table.
- Click on New to create a new form entry.
- On the form header, right-click and select:
 - Configure > Form Design.
- In the Form Designer, use drag-and-drop to:
 - Rearrange fields.
 - Group related fields together.
 - Add sections if required for better clarity.
- Save the customized form layout.



MILSTONE 4: CREATION OF TABLE DAILY EXPENSES

Activity 1 – Creating The Daily Expenses Table

- Navigate to All > Tables using the filter navigator.
- Click on New to create a new table.
- Fill in the required details:
- Label: Daily Expenses
- Name: (Auto-populated by the system)
- Add Module to Menu: *Family Expenditure*
- Go to the form header, right-click, and select Save.

dev181741.service-now.com/now/nav/ui/classic/params/target/sys_db_object.do%3Fsys_id%3D-1%26sys_is_list%3Dtrue%26sys_target%3Dsys_db_object%26sysparm_checked_items%3D%26sys...

servicenow All Favorites History Workspaces Admin Table - New Record Search

Table New record Submit Cancel

ServiceNow recommends creating custom tables in scoped applications. To learn more about creating scoped applications, click [here](#).

A table is a collection of records in the database. Each record corresponds to a row in a table, and each field on a record corresponds to a column on that table. Applications use tables and records to manage data and processes. [More Info](#)

* Label: Daily Expenses Application: Global

* Name: u_daily_expenses Create module: ☒

Extends table: Create mobile module: ☒

Add module to menu: -- Create new -- New menu name: Daily Expenses

Remote Table: ☐

Columns Controls Application Access

Table Columns for text Search

Dictionary Entries

Column label	Type	Reference	Max length	Default value	Display
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MILSTONE 4: CREATION OF TABLE DAILY EXPENSES

Activity 2 – Creating Columns (Fields)

- Open the Daily Expenses table.
- Near Columns, double-click to insert a new row and add the following fields:
 1. Column Label: Number
 - Type: String
 2. Column Label: Date
 - Type: Date
 3. Column Label: Expense
 - Type: Integer
 4. Column Label: Family Member Name
 - Type: Reference
 - Max Length: 800
 5. Column Label: Comments
 - Type: String
 - **Max Length: 800**

The screenshot shows the ServiceNow interface for editing the 'Table - Daily Expenses'. The table structure is as follows:

Field Name	Type	Length	Nullable
Updated by	String	(empty)	false
Updates	Integer	(empty)	false
Updated	Date/Time	(empty)	false
Created by	String	(empty)	false
Created	Date/Time	(empty)	false
Sys ID	Sys ID (GUID)	(empty)	false
Number	String	32	false
Date	Date		false
Expense	Integer		false
Family member	Reference		false
Insert a new row...			

Below the table, there are buttons for 'Delete', 'Update', and 'Delete All Records'. A 'Related Links' section is also visible at the bottom left, containing links for 'Form Builder', 'Design Form', 'Layout List', 'Show Form', and 'Connect List'.

MILSTONE 4: CREATION OF TABLE DAILY EXPENSES

Activity 3 – Making Number Field an Auto-Number

- Open the Daily Expenses table.
- Locate the Number field/column and double-click to open its properties.
- Scroll down and switch to the Advanced View.
- In the Default Value section:
 - Check the box for Use Dynamic Default.
 - Set the Dynamic Default Value to Get Next Padded Number.
- Click Update to save changes.

Configuring Number Maintenance:

- Navigate to All > Number Maintenance.
- Click on New.
- Enter the details as follows:
 - Table: Family Expenses
 - Prefix: MFE
- Click on Submit.

The screenshot shows the ServiceNow interface for configuring a 'Dictionary Entry - Number'. The browser address bar shows a URL with a long alphanumeric string. The page title is 'Dictionary Entry - Number' with a star icon. Below the title bar, there are tabs for 'Choice List Specification', 'Calculated Value', and 'Default Value', with 'Default Value' being the active tab. A blue box contains the text: 'The Default value specifies what value the field has when first displayed.' Below this, there is a checkbox labeled 'Use dynamic default' which is checked. Underneath, there is a text field labeled 'Dynamic default value' containing the text 'Get Next Padded Number'. To the right of this field are search and help icons. Below the configuration area, there are 'Delete Column' and 'Update' buttons. A section titled 'Related Links' contains links for 'Show Table', 'Run Point Scan', and 'Default view'. At the bottom, there are tabs for 'Access Controls', 'Choices', 'Attributes', and 'Labels (1)'. The 'Access Controls' tab is active, showing a table with columns: Name, Decision Type, Operation, Type, Active, Updated by, and Updated. The table is currently empty.

Invalid insert

* Table

Prefix

* Number 1,000

Application

Number of digits 7

Submit

Related Links
[Show Counter](#)

MILSTONE 4: CREATION OF TABLE DAILY EXPENSES

Activity 4 – Configure The Form

- Navigate to All > Daily Expenses using the filter.
- Open the Daily Expenses table.
- Click on New to create a new form entry.
- On the form header, right-click, then select:
 - Configure > Form Design.
- In the Form Designer, drag and drop fields to customize the form layout as per requirement.
- Apply the following configurations:
 - Number Field → Set as *Read-Only* by clicking the gear icon and checking Read-Only.
 - Date Field → Set as *Mandatory* by clicking the gear icon and checking Mandatory.
 - Family Member Name Field → Set as *Mandatory* using the same method.
- Click Save to apply the changes.

The screenshot shows the ServiceNow Form Designer interface for the 'Daily Expenses' table. The browser address bar displays the URL: `dev181741.service-now.com/$ng_fd.do?sysparm_attributes=startTable:"u_daily_expenses"%2CstartView:"Default%20view"`. The interface includes a top navigation bar with 'Daily Expenses [u_daily_expenses]' and a 'Default view' dropdown. The main area is titled 'Form Design' and contains a '2 Column' layout. On the left, a sidebar lists 'Fields' and 'Field Types'. The 'Fields' section includes a 'Filter' dropdown and a list of fields: 'Created', 'Created by', 'Updated', 'Updated by', and 'Updates'. The 'Field Types' section includes 'Activities (filtered)', 'Contextual Search Results', and 'Ratings'. The main form design area shows three fields: 'Number', 'Date', and 'Expense'. Each field has a gear icon for configuration. The 'Number' field is set to 'Read-Only', the 'Date' field is set to 'Mandatory', and the 'Expense' field is set to 'Mandatory'.

MILSTONE 5: CREATION OF RELATIONSHIP BETWEEN FAMILY EXPENSES AND DAILY EXPENSES TABLES

- Navigate to All > Relationships using the filter navigator.
- Click on New to create a new relationship.
- Fill in the details as follows:
- Name: Daily Expenses
- Applies to Table: *Family Expenses*
- Related List Table: *Daily Expenses*
- Click Save.

The screenshot shows the ServiceNow interface for configuring a relationship named 'Daily Expenses'. The page includes a breadcrumb trail 'All > Relationships', a search bar, and navigation links like 'Update' and 'Delete'. The configuration fields are as follows:

- Name:** Daily Expenses
- Application:** Global
- Advanced:** ☐
- Applies to table:** Family expenses [u_family_expenses]
- Queries from table:** Daily Expenses [u_daily_expenses]

A blue informational banner states: "This script refines the query in current that will populate the related list. For more information about it, its parameters and control variables, see the documentation. See also the article about the recommended form of the script."

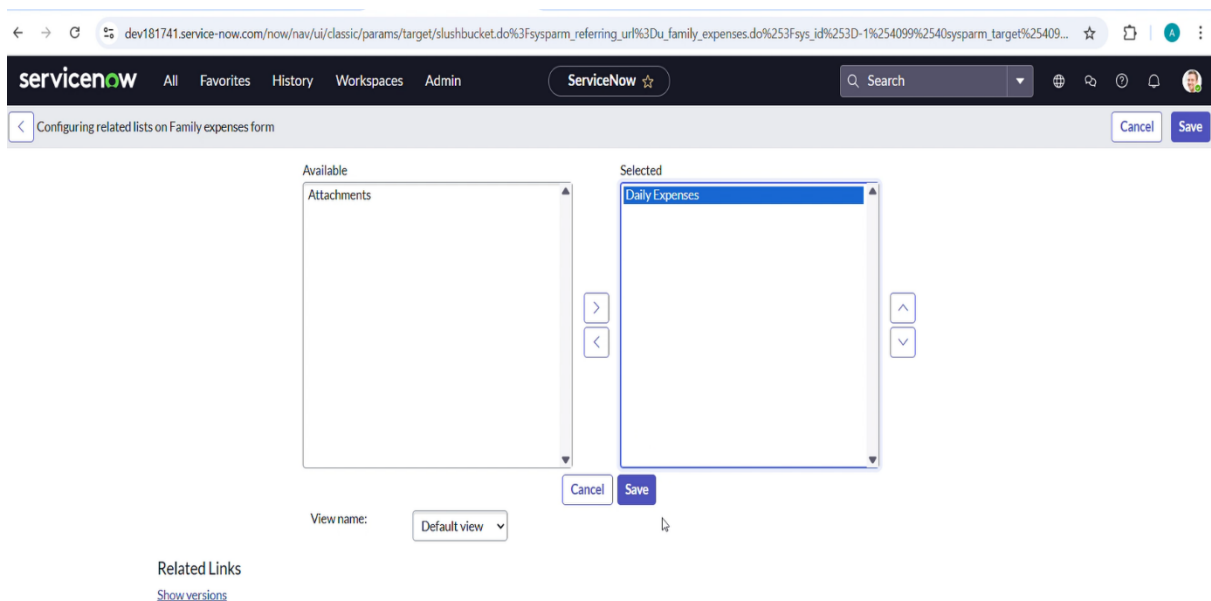
The 'Query with' section has a toggle for 'Turn on ECMAScript 2021 (ES12) mode' which is currently off. Below it is a code editor with the following content:

```
1 (function refineQuery(current, parent) {  
2  
3     // Add your code here, such as current.addQuery(field, value);  
4  
5 })(current, parent);
```

At the bottom, there are 'Update' and 'Delete' buttons, followed by a 'Related Links' section containing a link to 'Run Point Scan'.

MILSTONE 6: CONFIGURING RELATED LIST ON FAMILY EXPENSES

- Navigate to All > Family Expenses using the filter.
- Open the Family Expenses table.
- Click on New to open the form view.
- On the form header, right-click, then select:
- Configure > Related Lists.
- From the available options, add Daily Expenses to the Selected Area.
- Click Save to apply the changes.



MILSTONE 7: CREATION OF BUSINESS RULES

- Navigate to All > Business Rules using the filter.
- Under System Definition, select Business Rules and click New.
- Enter the following details:
 - Name: Family Expenses BR
 - Table: *Daily Expenses*
 - Check Advanced.
- In the When to run section, check:
 - Insert
 - Update

- In the Advanced tab, add the following script:

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

Go to the form header, right-click, then select Save.

The screenshot shows the ServiceNow interface for configuring a new Business Rule. The browser address bar shows a URL from dev181741.service-now.com. The page title is "Business Rule - New Record". The breadcrumb trail is "Business Rule > New record". A blue information banner states: "A business rule is a server-side script that runs when a record is displayed, inserted, deleted, or when a table is queried. Use business rules to automatically change values in form fields when the specified conditions are met. [More Info](#)".

The configuration form includes the following fields:

- Name:** Family expenses BR
- Table:** Daily Expenses [u_daily_expenses]
- Application:** Global
- Active:** ☒
- Advanced:** ☒

Below the form, there are three tabs: "When to run", "Actions", and "Advanced". The "Advanced" tab is selected. It contains a "Condition" field and a "Script" section. The "Script" section has a toggle for "Turn on ECMAScript 2021 (ES12) mode" which is currently turned off. The script editor shows the following code:

```
1 (function executeRule(current, previous /*null when async*/) {  
2  
3  
4 var FamilyExpenses = new GlideRecord('u_family_expenses');  
5  
6 FamilyExpenses.addQuery('u_date', current.u_date);  
7
```

MILSTONE 8: CONFIGURE THE RELATIONSHIP

- Navigate to All > Relationships using the filter navigator.
- Open the existing Daily Expenses Relationship.
- Update the details as follows:
 - Applies to Table: *Family Expenses*
- In the Query with section, enter the following script:

```
(function refineQuery(current, parent) {  
  
    // Add your code here, such as current.addQuery(field, value);  
    current.addQuery('u_date', parent.u_date);  
    current.query();  
})(current, parent);
```

Click Update to save the configuration

dev181741.service-now.com/now/nav/ui/classic/params/target/sys_relationship.do%3Fsys_id%3Da834e116c3fb6210555b3942b4013151%26sysparm_record_target%3Dsys_relationship%26sysp...

servicenow All Favorites History Workspaces Relationship - Daily Expenses Search

Relationship Daily Expenses Update Delete

Name: Daily Expenses Application: Global

Advanced ☐ Applies to table: Family expenses [u_family_expenses] Queries from table: Daily Expenses [u_daily_expenses]

This script refines the query in current that will populate the related list. For more information about it, its parameters and control variables, see [the documentation](#). See also the article about the [recommended form of the script](#).

Query with ☒ Turn on ECMAScript 2021 (ES12) mode

```
4 // Add your code here, such as current.addQuery(field, value);  
5  
6 current.addQuery('u_date', parent.u_date);  
7  
8 current.query();  
9  
10  
11 })(current, parent);
```

Update Delete

Related Links

CONCLUSION

The Family Expenses Management System built on ServiceNow demonstrates how the platform can be leveraged beyond IT workflows to solve real-world problems. By systematically creating tables, relationships, forms, and business rules, the project enables seamless tracking of both daily expenses and family-level expenses in an automated manner.

The use of auto-numbering, mandatory fields, related lists, and business rules ensures data integrity, consistency, and accuracy. The relationship configuration further enhances visibility by linking daily records to family-level summaries, providing a clear financial overview.

Through this project, we learned how to apply ServiceNow features such as table creation, form design, field configuration, scripting, and automation to build a complete application. More importantly, it highlights how low-code/no-code platforms like ServiceNow can be extended into personal finance, household management, and non-IT use cases.

Overall, the project provides a practical, scalable, and user-friendly solution for managing family expenses efficiently while also strengthening skills in ServiceNow application development.