CALCULATING FAMILY EXPENSES USING SERVICE NOW

Project Description

The project aims to develop a comprehensive expense calculation system using ServiceNow. This system will enable users to track and manage family expenses efficiently. It will include features such as expense categorization, budget setting, real-time tracking, and reporting capabilities. Utilizing ServiceNow's robust platform, the project will ensure seamless integration, user-friendly interface, and scalability to accommodate varying family sizes and financial complexities. The end goal is to empower users with the tools they need to make informed financial decisions and promote financial well-being within the family unit.

Project Flow

Milestone 1: Setting up service now instance.

Milestone 2: Creation of new update set.

Milestone 3: Creation of table (Family Expenses).

Milestone 4: Creation of table (Daily Expenses).

Milestone 5: Creation of relationship.

Milestone 6: Configuring related list on family expenses.

Milestone 7: Creation of business rules.

Milestone 8: Configure the relationship.

Milestone 9: Conclusion.

Milestone 1: Setting Up ServiceNow Instance

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 credentials.
7. Now you will navigate to the ServiceNow.
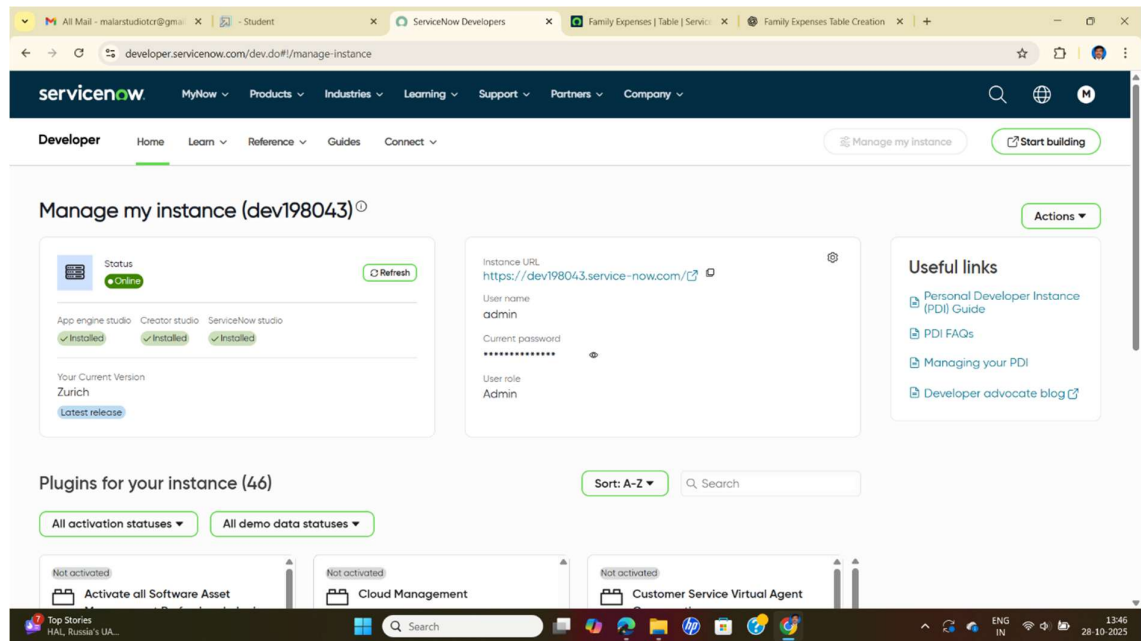
Milestone 2: Creation Of New Update Set

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

2. Enter the Details as:

   Name : Family Expenses

   Then click on Submit and Make current.

Milestone 3: Creation Of Table (Family Expenses)

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.

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

Creation of Columns (Fields)

1. Near Columns Double click near insert a new row.
2. Give the details as:
   > Column label : Number
   > Type : String
3. Double click on insert a new row again
4. Give the details as:
   > Column label : Date
   > Type : Date
5. Double click on insert a new row again
6. Give the details as:
   > Column label : Amount
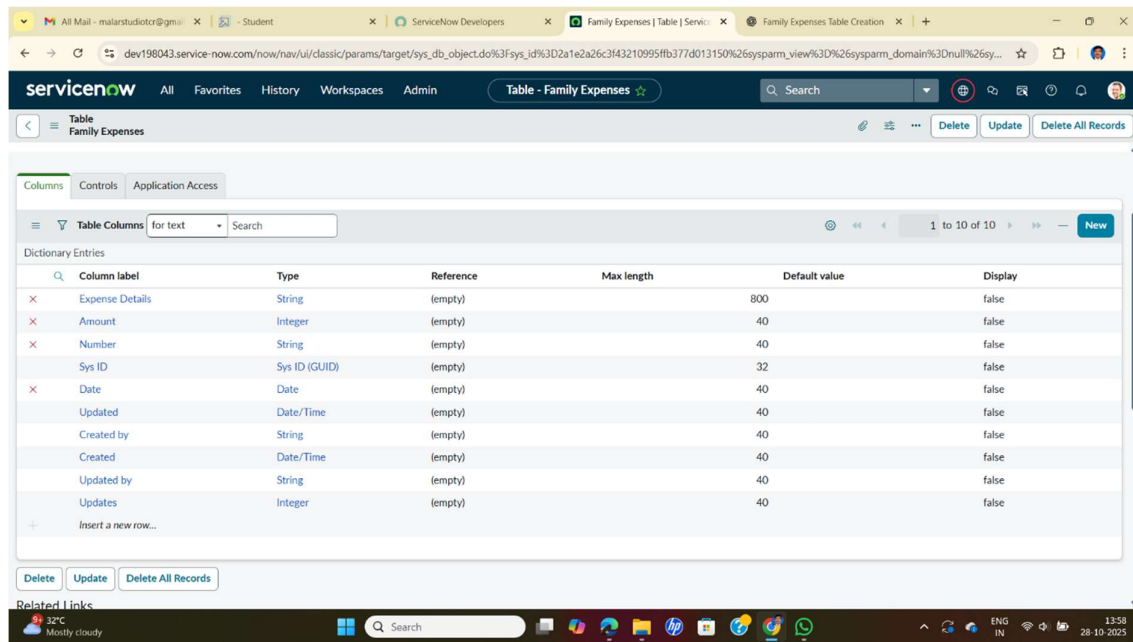   > Type : Integer
7. Double click on insert a new row again
8. Give the details as:
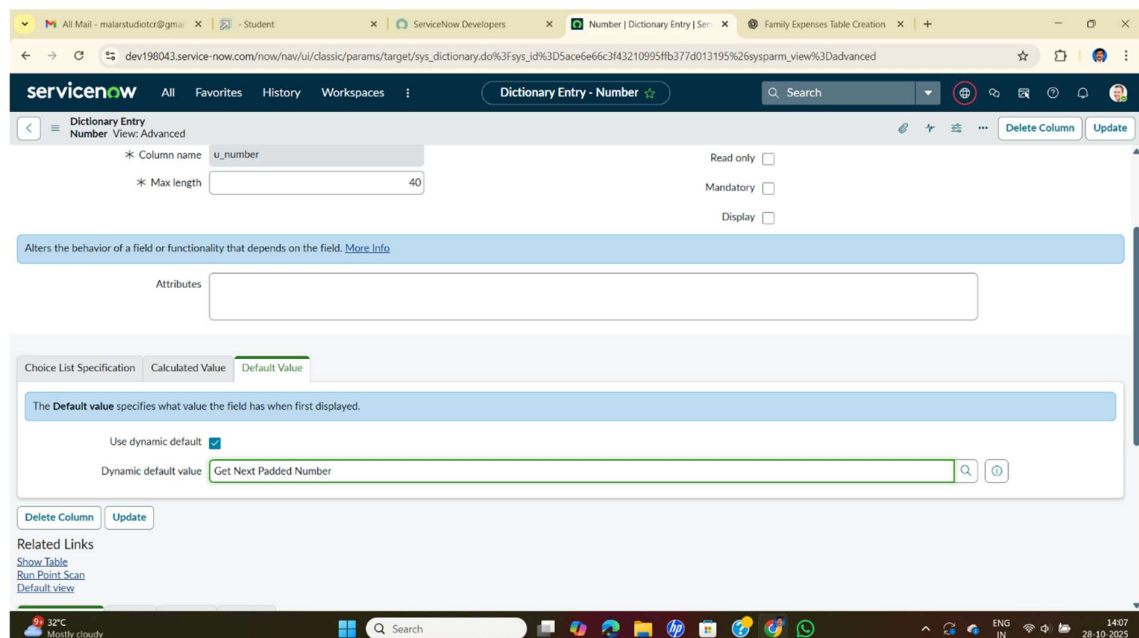   > Column label : Expense Details
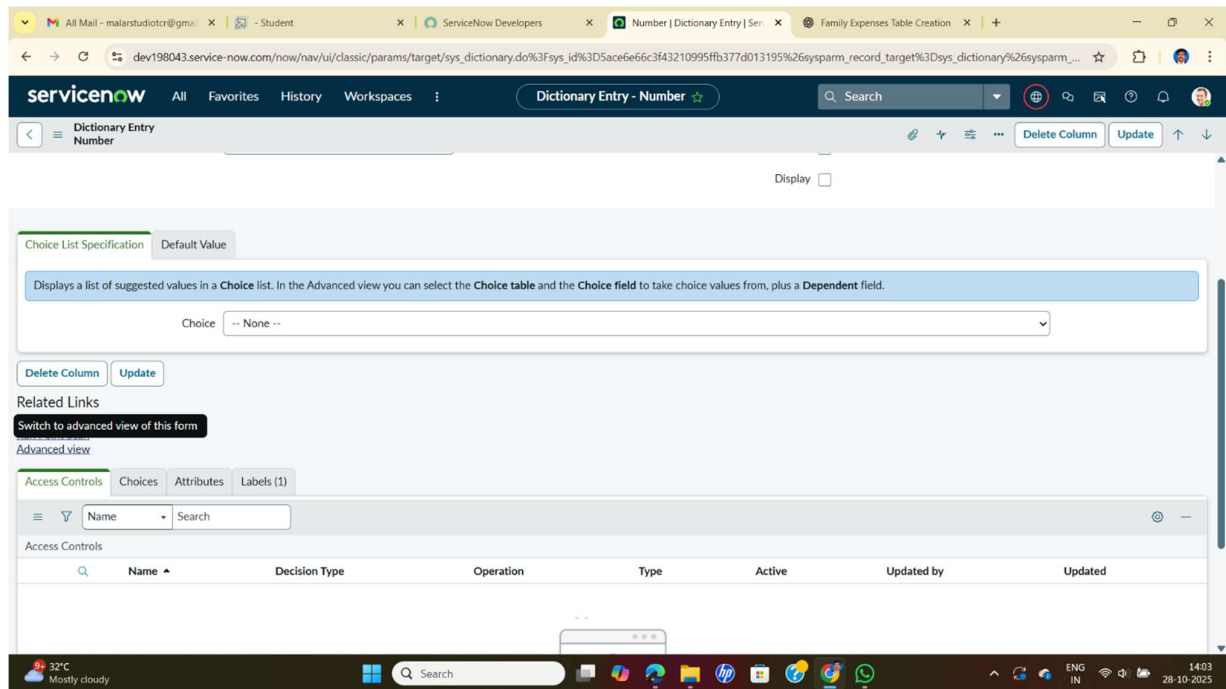   > Type : String
   > Max length : 800
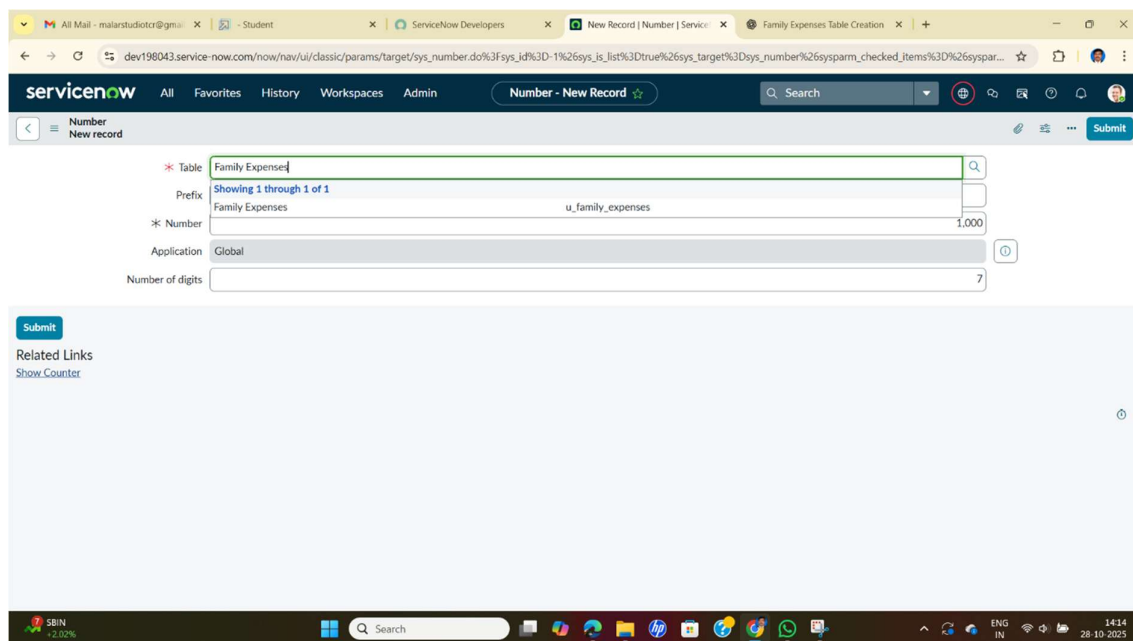9. Go to the Header and right click there>> click on Save.

Making Number Field an Auto-Number

1. Double click on the Number Field/Column.
2. Go down and double click on Advanced view
3. In Default Value:
     Use dynamic default : check the box
     Dynamic default value : Get Next Padded Number
4. Click on Update.

5. Go to All >> In the filter search for Number Maintenance >> select Number Maintenance
6. Click on New.
7. Enter the below Details:
   Table : Family Expenses
   Prefix : MFE

8. Click on Submit.

Configure the Form

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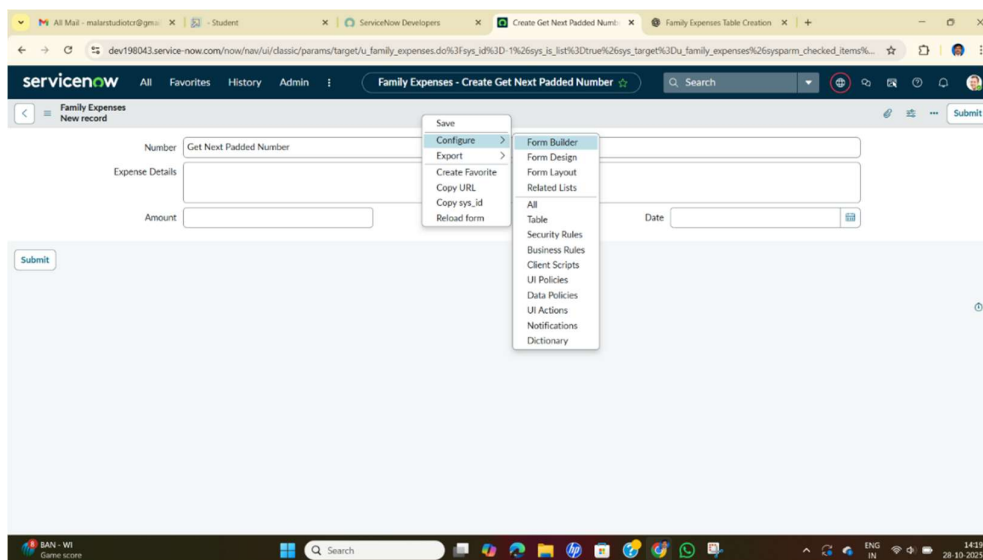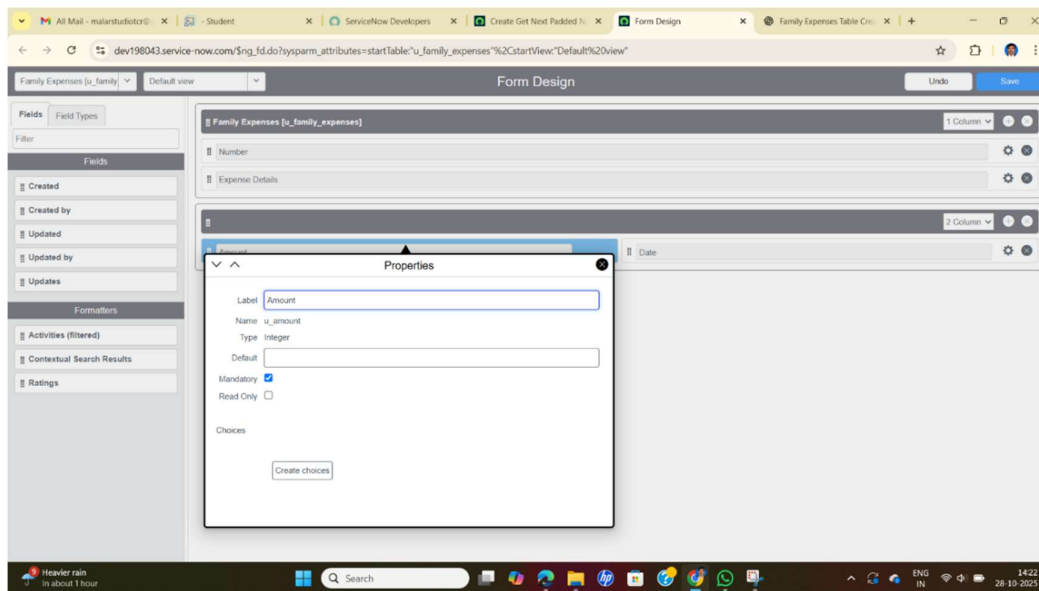
Milestone 4: Creation Of Table (Daily Expenses)

1. Go to All > In the filter search for Tables > click on New.
2. Enter the Details:
   Label : Daily Expenses
   Name : Auto-Populated
   Add Module to menu : Family Expenditure
3. Go to the Header and right click there>> click on Save.
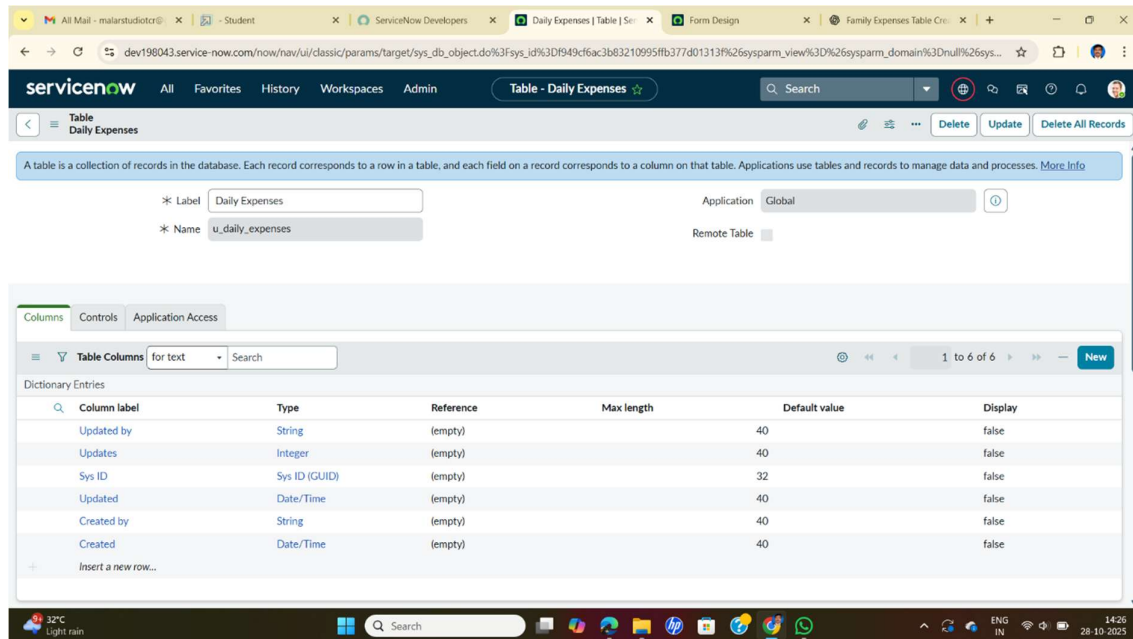
Creation of Columns(Fields)

1. Near Columns Double click near insert a new row.
2. Give the details as:
   Column label : Number
   Type : String
3. Double click on insert a new row again
4. Give the details as:
   Column label : Date
   Type : Date
5. Double click on insert a new row again
6. Give the details as:
   Column label : Expense
   Type : Integer
7. Double click on insert a new row again
8. Give the details as:
   Column label : Family Member Name
   Type : Reference

Max length : 800

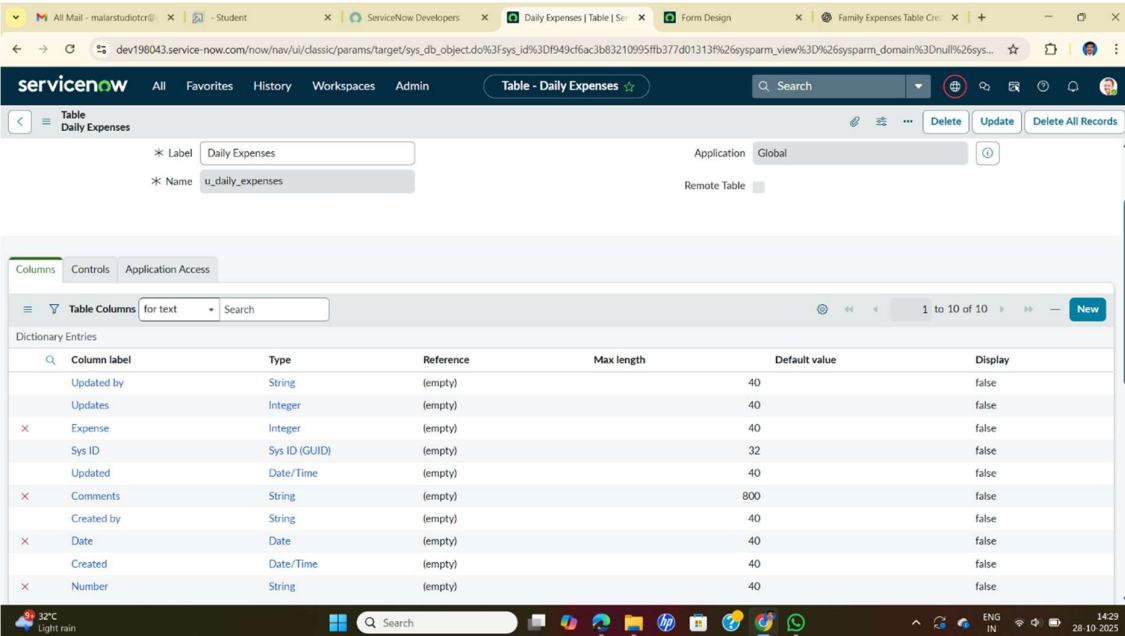9. Double click on insert a new row again.

10. Give the details as:

   Column label : Comments

   Type : String

   Max length : 800

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

Making Number Field an Auto-Number

1. Double click on the Number Field/Column.
2. Go down and double click on Advanced view
3. In Default Value:
   Use dynamic default : check the box
   Dynamic default value : Get Next Padded Number
4. Click on Update.

5. Go to All >> In the filter search for Number Maintenance >> select Number Maintenance
6. Click on New.
7. Enter the below Details:
   Table : Family Expenses
   Prefix : MFE
8. Click on Submit.

Configure the Form

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

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

Milestone 5: Creation Of Relationship

1. 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.

Milestone 6: Configuring related list on family expenses

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

Milestone 7: Creation of business rules

1. Go to All >> In the filter search for Business Rules.
2. Under System Definition Select Business Rules then click on New.
3. Enter the Details:
   Name : Family Expenses BR
   Table : Select Daily Expenses
   Check Advanced

4. In when to run Check Insert and Update
5. In Advance(we write the code): Write the below code >>

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

6. Go to the Header and right click there>> click on Save.
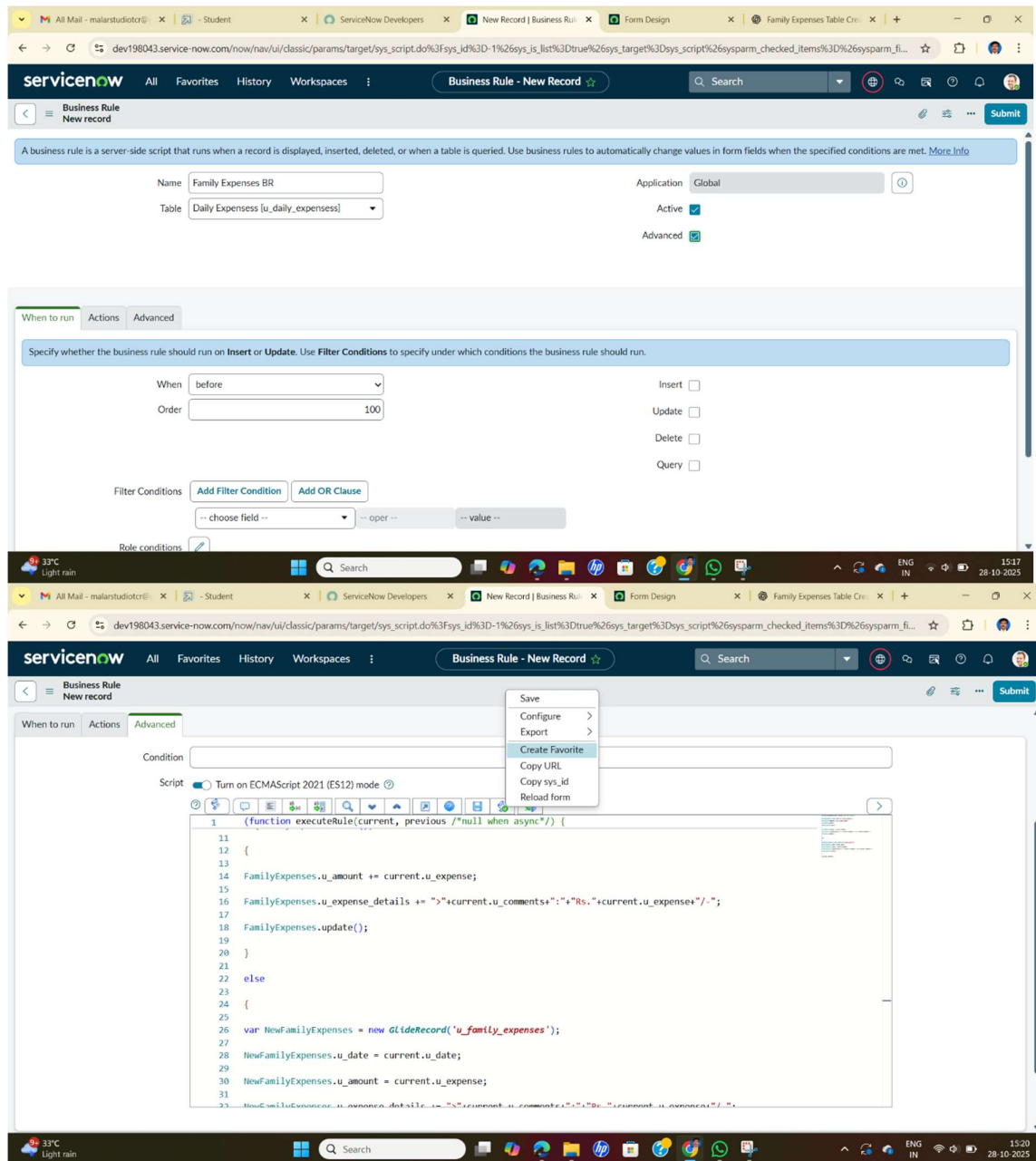
Milestone 8: Configure the relationship

1. Go to All >> In the filter search for Relationships >> Open Relationships.
2. In that, open Daily Expenses Relationship.
3. For Applies to table : Select Family Expenses.
4. In Query with : write the below Query.
   (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);
5.  Click on Update.
```
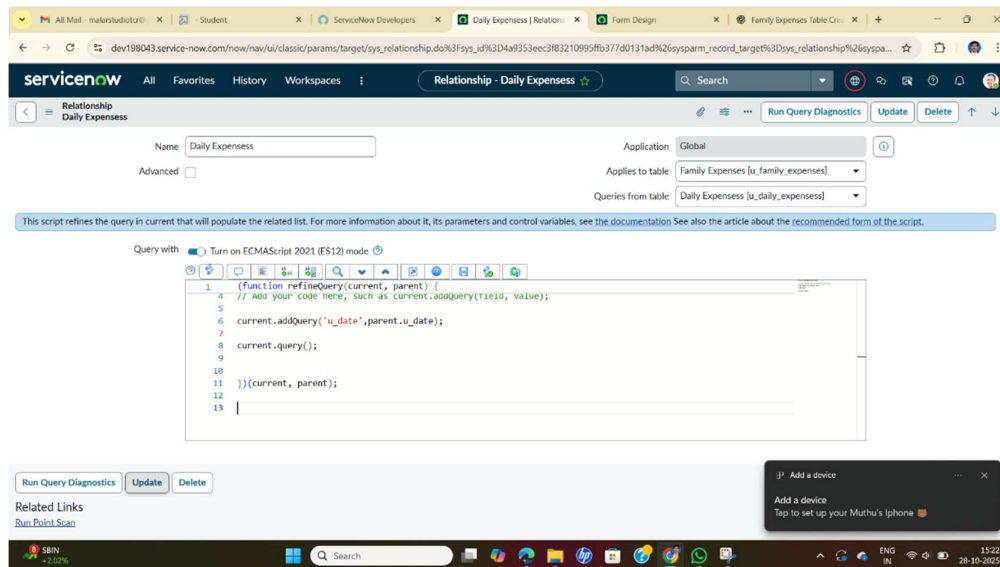

Milestone 9: Conclusion

The project "Calculating Family Expenses Using ServiceNow" successfully demonstrates how the ServiceNow platform can be utilized to automate and streamline financial tracking within a family setting. By creating and linking the Family Expenses and Daily Expenses tables, users can efficiently record, categorize, and monitor daily spending. The use of business rules ensures automatic updates and consistency between related records, while the relationship configuration provides a clear and connected data view. Overall, the project highlights the flexibility and power of ServiceNow in building practical applications that promote better financial management and decision-making.