# **Phase 3: Data Modelling & Relationships**

#### **PROJECT TITLE:-**

Expense On a Page: An expense approval & insight system.

*Industry:* Finance / Corporate Expense Management. *Target User:* Employees, Managers, and Finance Teams.

### **STANDARD & CUSTOM OBJECTS:-**

## Standard Object:

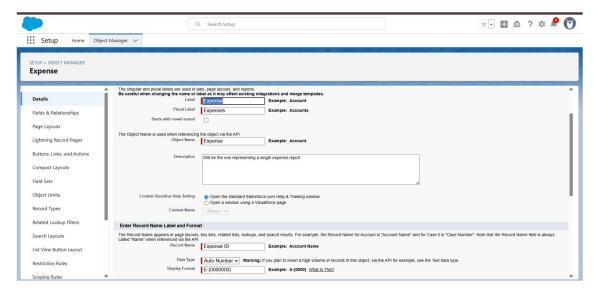
The Project will be working mainly on the custom objects only, so the standard objects that are used are-

- User: Employees will be submitting the expense report.
   Managers will be approving the expense report if it is above 5000 rupees.
   Finance Team will be overlooking the all the reports and dashboard.
- Task: Auto-create a submit Receipts reminder if they are not submitted.
- Report/Dashboard: To overview the spending of the particular month.

### **Custom Object:**

To represent a single expense report two Custom Objects are made-

- Expense (Parent Object)- It will be representing a single report (Eg A trip to Mumbai)
  - o Label: Expense
  - o Plural Label: Expenses
  - o Object Name: Expense
  - o Description: Will be the one representing a single expense report
  - o Record Name: Expense ID
  - o Record Type: Auto Number
  - Record Format: E-{00000000}
  - Starting Name: 1
  - Optional Features: Allow Reports, Allow Activities, Track Field History enabled
  - o Search Status: Allow Search enabled
  - Object Creation Options: Launch New Custom Tab Wizard after saving this custom object enabled.



• Expense\_Line (Child Object)- It will be representing the breakdown of the expense in a particular Expense Report (Eg- Taxi Fare, Hotel Bills).

Label: Expense\_Line

Plural Label: Expense\_Lines Object Name: Expense\_Line

o Description: Will have the particular type of expense in an Expense Record.

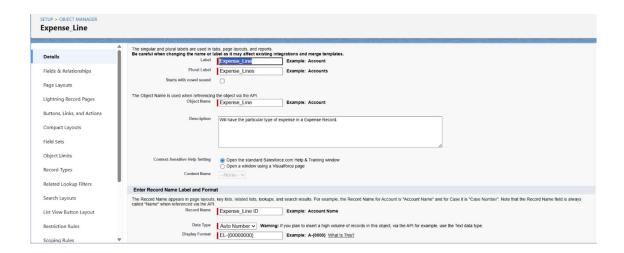
Record Name: Expense\_Line ID
 Record Type: Auto Number
 Record Format: EL-{00000000}

Starting Name: 1

o Optional Features: Allow Reports, Allow Activities, Track Field History enabled

Search Status: Allow Search enabled

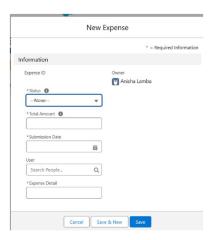
 Object Creation Options: Launch New Custom Tab Wizard after saving this custom object enabled.



## FIELDS:-

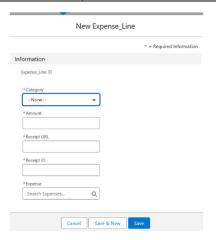
• Fields for *Expense* Custom Object:

FIELD	TYPE	USE
Status	Picklist	Tracks the life cycle of Expense.
Total Amount	Currency	The amount of money spent.
Submission Date	Date	The date on which the report is submitted.
Expense Detail	Text	Stores the reason for the expense.
Employee	Lookup(user)	To store whose report is that.



• Fields for *Expense Line* Custom Object:

FIELD	TYPE	USE
Category	Picklist	Shows the type of Expense.
Amount	Currency	The amount of money spent.
Receipt URL	URL	The link of the receipt of the spending
Receipt ID	Text	The ID of the receipt.
Expense(parent)	MDR(Expense)	To know from which expense report it is from



## **PAGE LAYOUT:-**

- Making the Page Layout for the Expense\_c object
  - o Adding the top section of the record in the following pattern:

Expense ID Owner

Expense Detail Total Amount

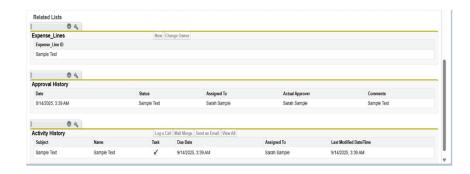
Status User

**Submission Date** 



Adding the Related Lists in the following pattern:

Expense\_Lines
Approval History
Activity History



- Adding the page layout for the Expense\_Line\_\_c object-
  - Adding the top section of the record in the following pattern:

Expense\_Line ID Receipt URL
Category Receipt ID
Amount Expense



### **RECORD TYPES:-**

Expense\_\_c Record Types:

o Employee Expense -> For regular staff.

Existing Record Type: Master

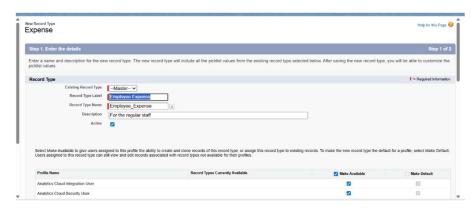
Record Type Label: Employee Expense Record Type Name: Employee\_Expense

Description: For the regular staff

Activated

Make it available for every one

Layout: Expense Layout

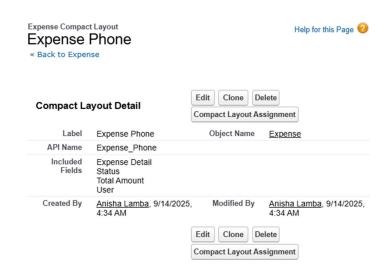


Will add few more in future if needed

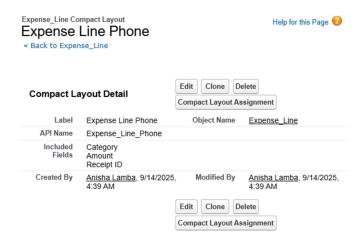
## **COMPACT LAYOUT:-**

Making a compact layout for the Expense and Expense\_Line custom objects so they are easily available for the employee working with a phone

For the Expense \_\_c object -> Expense Detail, Status, Total Amount, User



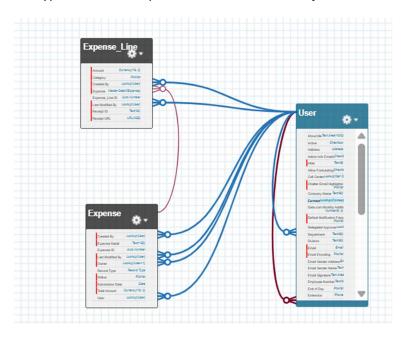
For the Expense\_Line\_\_c object -> Category, Amount, Receipt\_ID.



## **SCHEMA BUILDER:**

Using the Schema Builder to

- Show the relationship between objects
- Know what type of relationship between the different objects.



## **LOOKUP VS MASTER-DETAIL VS HIERARCHICAL RELATIONSHIPS**

**Master-Detail Relationship:**  $Expense\_c \rightarrow Expense\_Line\_c$ 

- If Expense is deleted, all related Expense Lines are deleted.
- Allows roll-up of Amount to Expense.

**Lookup Relationship:**  $Expense\_c \rightarrow User$ 

Flexible, because deleting a User shouldn't delete Expenses.

## **Hierarchal Relationship:**

Not needed

## (Pending from Phase 2)

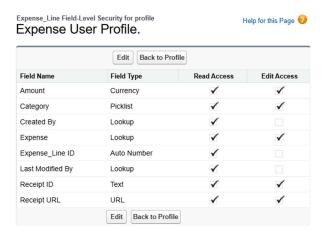
### **PROFILES:-**

Expense User Profile-

- Setting the object permission for the following object:
  - Expense custom Object- Read, Create, Edit (no Delete or change owner if desired).
  - o Expense\_Line custom Object- Read, Create, Edit.



Ensuring that the Field Level Security Exposes Category, Amount, Receipt URL, Status.

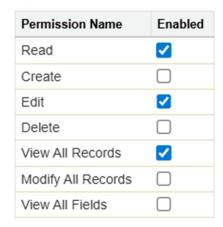


## **PERMISSION SETS:-**

Expense Approver-

- Setting the Object Setting for the Expense Custom Object:
  - o Giving Read, Edit, View All permission as required.

## **Object Permissions**



## **OWD (ORGANIZATION WIDE DEFAULT):-**

Changing the Sharing Setting of the Custom Objects-

• Expense: Private

