**The account object must contain the following fields:**

* **Name** (Existing Field in Account Object)
* **Complete Address** (I have created new field with address data type)
* **Primary Contact Name** (Created new field with lookup relationship type with contact object)
* **Phone** (Existing Field in Account Object)
* **Email** (Created with data type email)

**The Contact object must have the following fields**

* **First name** (Existing Field in Contact Object)
* **Last name** (Existing Field in Contact Object)
* **Main telephone** (Created new field with phone data type)
* **Related Account** (Created lookup field with Account Object)

**The contact object must be related to an account.**

In the contact object, I made the field related account as mandatory.

**A contact can be a provider or a customer(default).**

Two record types needed to be created of contact object. First, I created customer record type as it is default and after that I created provider/supplier record type. But when I was trying to create a record type of contact using LWC at that time it was not showing the popup to choose the record type.

**The customer must have the *purchases* completed**

**The supplier must have the purchases done by our POS**

I have created two picklists field one of purchases status and other purchases done. After that I created validation rule that will show error if:

NOT(OR(AND(ISPICKVAL(Contact\_Type\_\_c, ‘Customer’), ISPICKVAL(Purchase\_Status\_\_c, ‘Completed’)),AND(ISPICKVAL(Contact\_Type\_\_c, ‘Supplier’), ISPICKVAL(Purchase\_Done\_By\_\_c, ‘By POS’))))

**When a supplier is created we must send an Email to the Account Owner to notify that a new Supplier has been created.**

I have created a workflow action. When a record is created, it is evaluated and the entry criteria will be when CONTACT: Contact type EQUALS Supplier

Then I add an immediate action of Email Alert which will send email to Account owner.

**A contact can’t be repeated (Can’t have the same email or the name + phone number)**

As email is a standard field, we can’t make it required so I created another custom field and made it as unique and put email as the default value of the custom field and then I created a workflow and put the immediate action to update the value of the custom field to the value of email and if we repeat the email it will show error. I have done the same procedure of name + phone number.

**We must have an item object with the following fields**

* **Name** (Data type: text)
* **Price** (Data type: Currency)
* **SKU** (Data type: Number)
* **VAT (16%)** (Data type: Percent with default value 0.16)
* **Total** (Formula Field : Price + VAT\*Price)
* **Image** (Data type: Rich Text)

I have created an object named as item with above fields.

**We need to have a web form to purchase an item from a picklist and store the next fields (maybe another object…..)**

* **Purchase date** (Data type: date)
* **Related Customer** (Lookup relationship with Contact)
* **Related item** (Lookup relationship with Item)

I have created an object named as purchase to store the details.

**We also need to gather complaints from our customers through different channels**

**\*Email**

**\*Web Form**

I have created LWC components for each one of the email form and web form.

* **In our webform we need to gather case information**
* **Case Subject**
* **Case Description**
* **Origin**
* **SKU (This should be related to an item) (Must be 10 alphanumeric characters)**
* **More info up to you**
* **Contact Email**
* **Address**

I have created an LWC component to create record of case object with the above fields.

**When a case is created the contact should not be created if the contact exist but it needs to be related to the contact.**

I have created a field of Related Contact in Case Object which is required.

**Contact should be created when done by an email to case (Contact can’t be repeated).**

I have put a field of Related Contact which is both unique and required.

**If a Customer haven’t done a purchase within 3 days the contact should be deleted.**

I have created a process builder on Contact Object and the criteria will be when Contact type is Customer. After that it will check whether there is a related purchase and then in the purchase date is greater than 3 days if it is then it will delete it.