Currencies

ID:INT (PK)
Name:VARCHAR(6)
Abbreviation:VARCHAR(50)
Symbol:VARCHAR(6)
ConversionRateToUSD:Decimal(5,2)

InventoryItems

ID: Int (PK) Identity
SkuName:Varchar(50)
Description:Varchar(50)
Cost : Decimal(6.2)
CostCurrencyId:INT (FK)
ProfitPerItem:Decimal (6,2)
Quantity:INT
WasDeleted:INT

ItemsSoldInfo

ID: Int (PK) Identity
DateTimeSold:DateTime
QuantitySold:INT
Cost : Decimal(12.2)
CostCurrencyId:INT (FK)
PaidCurrencyID:INT (FK)
Quantity:INT
WasDeleted:INT
SoldBYId:INT (FK)

Person

ID:INT (PK)
Name:VARCHAR(50)
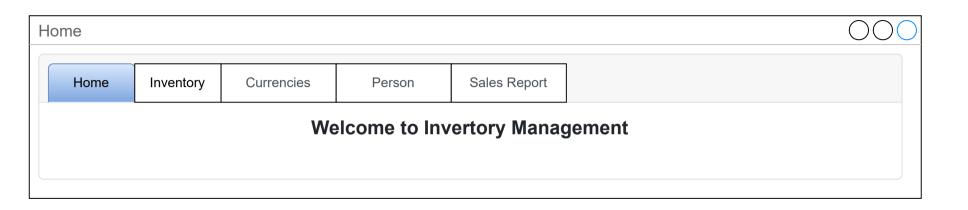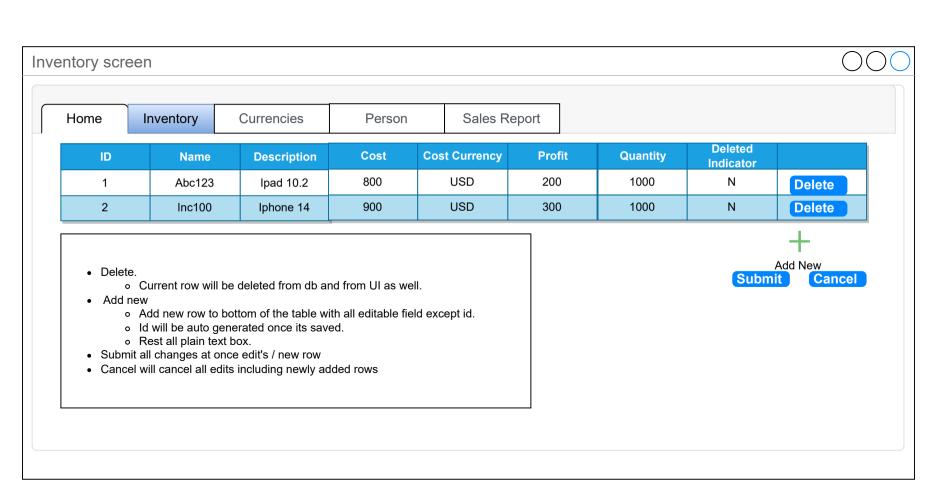Location:VARCHAR(30)
Job Title ID : int (FK)

- Use Angular App for UI
- Create OCELOT API Gateway.UI Should call the Inventory API via OCEIOT Gateway.
- Create Inventory API. This will be utilized for all above operations.
- Use entity framework as ORM in API
- Create separate controllers for each page in API.Such as Inventory Controller,Currency Controller,Person controller, Sales Report Controller.
  - Each controller should expose CRUD operation and GET separately.Strictly We should not use CRUD to return dataset.Crud operation just send Http Response code 201 for successful transactions.
  - After Each CRUD API response should reach to Angular App , If it is success then Angular app should call the respective get method to refresh the screen data.
  - All api's Should Expose Swagger end point
- Upload excel
  - Save the uploaded excel in azure blob storage.
  - Then trigger message via service bus topics.
  - This service bus topic will be subscribed by Function app and function app should call the respective api for Process the excel file and store the same to DB.
- Use github & Git flow with terraform for Infrastructure CICD . (Infra as code)
- For Application Code deployment we can use Github & Azure devops.
- This is targets only positive flow no negative scenarios to be developed.

Home	Inventory	Currencies	Person	Sales Report

Welcome to Invertory Management

Inventory screen

Home	Inventory	Currencies	Person	Sales Report

ID	Name	Description	Cost	Cost Currency	Profit	Quantity	Deleted Indicator	
1	Abc123	Ipad 10.2	800	USD	200	1000	N	**Delete**
2	Inc100	Iphone 14	900	USD	300	1000	N	**Delete**

+
Add New

Submit   **Cancel**

- Delete.
  - Current row will be deleted from db and from UI as well.
- Add new
  - Add new row to bottom of the table with all editable field except id.
  - Id will be auto generated once its saved.
  - Rest all plain text box.
- Submit all changes at once edit's / new row
- Cancel will cancel all edits including newly added rows

Currencies

Home	Inventory	Currencies	Person	Sales Report

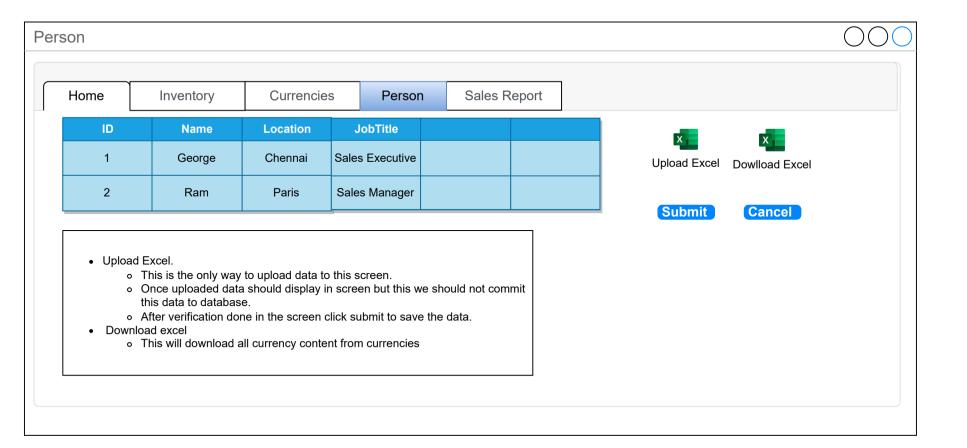| ID	Name	Abbrevation	Symbol	Conversion Rate	
1	USD	United States Dollor	$	1	
2	INR	Indian Rupee	₹	80	

Upload Excel   Dowlload Excel

Submit   Cancel

- Upload Excel.
  - This is the only way to upload data to this screen.
  - Once uploaded data should display in screen but this we should not commit this data to database.
  - After verification done in the screen click submit to save the data.
- Download excel
  - This will download all currency content from currencies

Person

| Home | Inventory | Currencies | **Person** | Sales Report |

ID	Name	Location	JobTitle		
1	George	Chennai	Sales Executive		
2	Ram	Paris	Sales Manager		

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Submit   Cancel

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Sales Report

Home	Inventory	Currencies	Person	Sales Report

- Person Wise Sale Report should be displayed.
  - Generate this report based on the Items sold in fo table
  - Include Dropdown for person and submit button.Once after person name selected then user clicked search box,then display following details should display.(Person Name,SKUName,Sku Description,Quantity sold,Total Sale,Profit).
  - Each time
- Download excel
  - This will download all displaying information in excel