2- Validation Checklist Creation:

Domain: Flower shop

Validation Checklist for Flower Shop

Employee Details
1. **ID:**
   - **Cannot be null =➜** `@NotEmpty(message = "Cannot be null")`
   - **Length must be more than 2 characters =➜** `@Size(min =3 , message = "Length must be more than 2 characters")`

2. **Name:**
   - **Cannot be null =➜** `@NotEmpty(message = "Cannot be null")`
   - **Length must be more than 4 characters =➜** `@Size(min = 5, message = "Length must be more than 4 characters.")`
   - **Must contain only characters (no numbers) =➜**
3. **Email:**
   - **Must be a Vaild email format =➜** `@Email(message = "Invalid email format")`
   - **Connot be null =➜** `@NotEmpty(message = "Cannot be null")`
4. **Phone Number:**
   - **Must start with "05"**
   - **Must consist of exactly 10 digits =➜** `@Pattern(regexp = "^05\\d{8}$", message = "Phone number must start with '05' and be exactly 10 digits")`
   - **Cannot be null =➜** `@NotEmpty(message = "Phone number cannot be null")`
   -
5. **Position:**
   - **Cannot be null =➜** `@NotEmpty(message = "Phone number cannot be null")`
   - **Must match predefined roles (e.g., Florist, Manager, Delivery Driver) =➜** `@Pattern(regexp = "^(florist|manger|delivery driver)$", message = "Position must be either 'supervisor' or 'coordinator'")`
6. **Age:**
   - **Must be more than 25=➜** `@Min(value = 26, message = "Age must be more than 25")`
   - **Cannot be null =➜** `@NotEmpty(message = "Phone number cannot be null")`

Order Details

1. **Order ID**:

   - Cannot be null:
     `@NotEmpty(message = "Order ID cannot be null")`

- Length must be more than 3 characters:
  ```
  @Size(min = 4, message = "Order ID must be more than 3 characters")
  ```

2. **Customer Name**:
   - Cannot be null:
     ```
     @NotEmpty(message = "Customer Name cannot be null")
     ```
   - Length must be more than 4 characters:
     ```
     @Size(min = 5, message = "Customer Name must be more than 4 characters")
     ```
   - Must contain only characters (no numbers):
     ```
     @Pattern(regexp = "^[a-zA-Z]+$", message = "Customer Name must contain only characters (no numbers)")
     ```
3. **Delivery Date**:
   - Cannot be null:
     ```
     @NotEmpty(message = "Delivery Date cannot be null")
     ```
   - Must be a valid future date (not in the past):
     ```
     @Future(message = "Delivery Date must be a valid future date")
     ```
4. **Order Total**:
   - Cannot be null:
     ```
     @NotNull(message = "Order Total cannot be null")
     ```
   - Must be a positive number:
     ```
     @Positive(message = "Order Total must be a positive number")
     ```

Inventory Details

1. **Flower Name**:
   - Cannot be null:
     ```
     @NotEmpty(message = "Flower Name cannot be null")
     ```
   - Length must be more than 3 characters:
     ```
     @Size(min = 4, message = "Flower Name must be more than 3 characters")
     ```
2. **Quantity**:
   - Cannot be null:
     ```
     @NotNull(message = "Quantity cannot be null")
     ```
   - Must be a positive integer:
     ```
     @Min(value = 1, message = "Quantity must be a positive integer")
     ```
3. **Price**:
   - Cannot be null:
     ```
     @NotNull(message = "Price cannot be null")
     ```
   - Must be a positive number:
     ```
     @Positive(message = "Price must be a positive number")
     ```
4. **Freshness/Expiry Date**:
   - Cannot be null:
     ```
     @NotEmpty(message = "Freshness/Expiry Date cannot be null")
     ```
   - Must be a valid future date:
     ```
     @Future(message = "Freshness/Expiry Date must be a valid future date")
     ```