

# DATA SPECIFICATION DOCUMENT

Version 1.0

## 1. CUSTOMER DATA SHEET

Required Columns:

- CustomerID (Text, Required): Format "CUST-XXXXXX" where X is digit
- FirstName (Text, Required): Max 50 characters
- LastName (Text, Required): Max 50 characters
- Email (Text, Required): Valid email format
- Phone (Text, Optional): Format "(XXX) XXX-XXXX"
- DateJoined (Date, Required): Format DD/MM/YYYY
- Status (Text, Required): Values "Active", "Inactive", "Pending"

## 2. ORDERS SHEET

Required Columns:

- OrderID (Text, Required): Format "ORD-XXXXXXXX" where X is digit
- CustomerID (Text, Required): Must exist in Customer Data
- OrderDate (Date, Required): Format DD/MM/YYYY
- TotalAmount (Number, Required): Decimal, max value 99999.99
- PaymentMethod (Text, Required): Values "Credit", "Debit", "Cash", "PayPal"
- ShippingStatus (Text, Required): Values "Pending", "Shipped", "Delivered"

## 3. PRODUCTS SHEET

Required Columns:

- ProductCode (Text, Required): Format "PROD-XXX-YYY" where X is letter, Y is digit
- ProductName (Text, Required): Max 100 characters
- Category (Text, Required): Values "Electronics", "Clothing", "Food", "Other"
- Price (Number, Required): Decimal, positive value
- StockQuantity (Number, Required): Integer, non-negative
- LastUpdated (Date, Required): Format DD/MM/YYYY

## BUSINESS RULES:

- OrderDate must be after customer DateJoined
- TotalAmount must be positive and less than 100000
- All dates must be between 01/01/2020 and 31/12/2025
- No duplicate CustomerID or OrderID allowed
- Email addresses must be unique