# Project Design Phase-II

# Data Flow Diagram & User Stories

| Date | 25 June 2025 |
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| Team ID | LTVIP2025TMID47679 |
| Project Name | Toy Craft Tales: Tableau's Vision into Toy Manufacturer Data |
| Maximum Marks | 4 Marks |

**Data Flow Diagram (DFD) – Level 1**

**System:** Toy Craft Tales E-Commerce & Toy Customization Platform

**1. External Entities (Sources/Sinks)**

- **Customer** (Submits orders, provides feedback)

- **Warehouse** (Stores/manages inventory)

- **Payment Gateway** (Processes transactions)

- **Shipping Provider** (Handles delivery)

- **Admin** (Manages catalog, analytics)

**2. Key Processes**

1. **Browse & Customize Toys**

   - *Input:* Customer preferences (age, themes, materials).

   - *Output:* Customized toy design, price quote.

   - *Data Flows:*

     - Customer → Product catalog (request details).

     - Catalog → Customer (display options).

2.**Place Order**

- o *Input:* Selected design, shipping/payment details.

- o *Output:* Order confirmation, payment receipt.

- o *Data Flows:*

  - ▪ Customer → Order details → Payment Gateway.

  - ▪ Payment Gateway → Order database (confirm payment).

3.**Manage Inventory**

- o *Input:* Order details, stock levels.
- o *Output:* Inventory updates, restock alerts.
- o *Data Flows:*

  - ▪ Order database → Warehouse (check stock).
  - ▪ Warehouse → Admin (low-stock alerts).

4.**Process Shipping**

- o *Input:* Confirmed order, address.
- o *Output:* Shipping label, tracking ID.
- o *Data Flows:*

  - ▪ Warehouse → Shipping Provider (dispatch details).
  - ▪ Shipping Provider → Customer (tracking info).

5.**Collect Feedback**

- o *Input:* Customer reviews, ratings.
- o *Output:* Product improvements, testimonials.
- o *Data Flows:*
  - ▪ Customer → Feedback database.
  - ▪ Feedback database → Admin (analytics).

## 3. Data Stores

- **Product Catalog** (Toy designs, prices, customization options).

- **Order Database** (Customer info, order history).

- **Inventory Database** (Stock levels, SKUs).

- **Feedback Database** (Reviews, ratings).

# Data Flow Diagram

Visualizing the **processes** of Toy Craft Tales

**STEP 1**

## Step 2: Order Processing

The system verifies the payment and confirms order details before moving to the next stage.

**STEP 2**

## Step 1: Customer Order

Customers submit their order details, including the desired toys and payment information for processing.

**STEP 3**

## Step 3: Toy Crafting

Suppliers and craftsmen begin creating the toys based on the specifications found in the Toy Catalog.

**STEP 4**

## Step 4: Delivery

Once crafted, toys are packaged and shipped to the customer's address.

**STEP 5**

## Step 5: Order History

All completed orders are recorded in the Order History for future reference and customer service purposes.