

## 1) User Entry Point

Start

User Visits Website / App



User Authentication

- New User → Register
- Existing User → Login
- Guest User → Continue without login (limited features)

## 2) Product Browsing Flow

### Browse Clothing Catalog

- Categories (Men / Women / Kids)
- Filters (Price, Size, Color, Brand)

Database Tables that will be used

- Products
- Categories
- Product\_Images
- Inventory

## 3) Feature Selection Decision Point

Does user want AI Try-On?

Decision Node

- IF YES → AI Try-On Flow
- IF NO → Normal Purchase Flow

## 4) AI Try-On Flow (If customer wants to use)

User Uploads Image

- Front view
- Proper lighting validation

### **Database Tables that will be used**

- User\_Images
- AI\_Input\_Data

### **User Enters Body Measurements(for instances):-**

- Chest size
- Waist size
- Shoulder width
- Hip size
- Height
- Fit preference (Slim / Regular / Loose)

### **Database Tables that will be used**

- User\_Measurements

### **AI Processing Module**

- Image preprocessing
- Body segmentation
- Size mapping
- Cloth overlay rendering

### **AI Model that will be uses**

- User image
- Measurements
- Product cloth data

### **AI Generated Try-On Preview**

- 2D/3D visual output

### **Database Tables Used**

- AI\_Output
- TryOn\_History

### **User Decision**

- Like the look → Add to Cart
- Try another product
- Exit AI Try-On

## **5) Normal Purchase Flow (if user does not want to use AI Try-On)**

### **User Selects Product**

- Choose Size (S / M / L / Custom)
- Choose Color
- Quantity

### **Database Tables Used**

- `Cart`
- `Cart_Items`

### **Add to Cart**

## **6) Cart & Checkout (COMMON FLOW)**

### **View Cart**

- Product details
- AI Try-On flag (Yes / No)

### **Apply Offers / Coupons**

### **Database Tables that will be used**

- `Coupons`
- `Discounts`

**Proceed to Checkout**

## 7) Order Processing

**Enter Delivery Address**

**Database Tables Used**

- `User_Address`

**Payment Gateway**

- UPI
- Card
- Net Banking
- Wallet

**Database Tables Used**

- `Payments`

**Order Confirmation**

**Database Tables Used**

- `Orders`
- `Order_Items`

## 8) Post-Order Flow

**Inventory Update**

**Database Tables that will be used**

- `Inventory`

## **Order Tracking**

### **Database Tables Used**

- Shipping
- Order\_Status

## **Feedback & Reviews**

### **Database Tables Used**

- Reviews
- Ratings

**End**

# **Key Database Enhancement for AI Try-On**

### **NEW Tables Added:**

- User\_Measurements
- User\_Images
- AI\_Input\_Data
- AI\_Output
- TryOn\_History