**E-Commerce App**

**Overview:**

The E-Commerce App allows users to log in, browse products, add items to the cart, and proceed with payment. It ensures smooth navigation and an interactive UI.

**Entities & Processes:**

* **User** → Logs in, browses products, adds/removes items from the cart, and makes payments.
* **E-Commerce System (Process 1.0)** → Handles authentication, product listing, cart management, and payment processing.
* **Database (Data Store)** → Stores user credentials, product details, cart data, and payment transactions.

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| E-Commerce System |

| (Process 1.0) |

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| Database |

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**Level 1: Detailed Breakdown**

* **Process 1.1 - User Authentication (Login.js)** → Manages user login and authentication.
* **Process 1.2 - Display Products (Products.js)** → Fetches and displays product catalog.
* **Process 1.3 - Add to Cart (Cart.js)** → Handles adding, removing, and updating cart items.
* **Process 1.4 - Proceed to Payment (Payment.js)** → Manages checkout and order confirmation.

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| Process 1.1 - User Authentication |

| (Login.js) |

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| Process 1.2 - Display Products |

| (Products.js) |

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| Process 1.3 - Add to Cart |

| (Cart.js) |

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| Process 1.4 - Proceed to Payment |

| (Payment.js) |

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**Data Flow:**

**User Login** → User enters credentials, and authentication is verified.  
**Browse Products** → Product catalog is displayed with images, prices, and an "Add to Cart" button.  
**Add to Cart** → Items are added to the cart and can be edited (removed/updated).  
**Proceed to Payment** → The user confirms the order, sees the total amount, and completes the purchase.

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