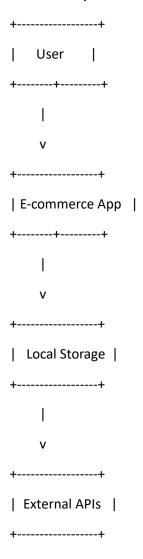
#### **Level 0: Context Diagram**

At this level, we show the interaction between the **User**, **E-commerce System**, and **External Services (e.g., Email API for notifications)**.

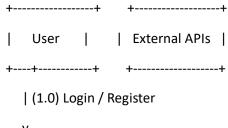


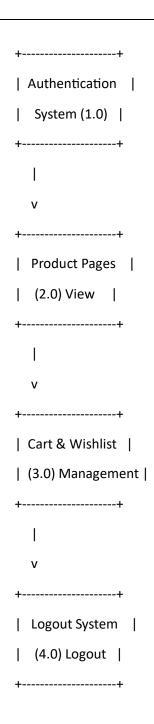
## **Explanation:**

- The **User** interacts with the **E-commerce App**.
- The E-commerce App manages user authentication, product catalogue, and cart/wishlist.
- Local Storage stores user session data (like login status & cart items).
- External APIs (like EmailJS) handle external notifications.

## **Level 1: Breakdown of Components**

Now, we break down the app into key processes:





## **Key Features in DFD**

# 1. Authentication System (1.0)

- User logs in → AuthContext checks credentials.
- User session is stored in localStorage.
- Redirects user to **Product Catalogue**.

## 2. Product Catalogue (2.0)

- User browses products.
- Can add items to cart/wishlist.

## 3. Cart & Wishlist Management (3.0)

- Items added to cart are **stored in localStorage**.
- Wishlist items persist across sessions.

4. Logout System (4.0)	
• C	lears user session (localStorage.removeItem()).
• R	edirects user to <b>Login page</b> .