

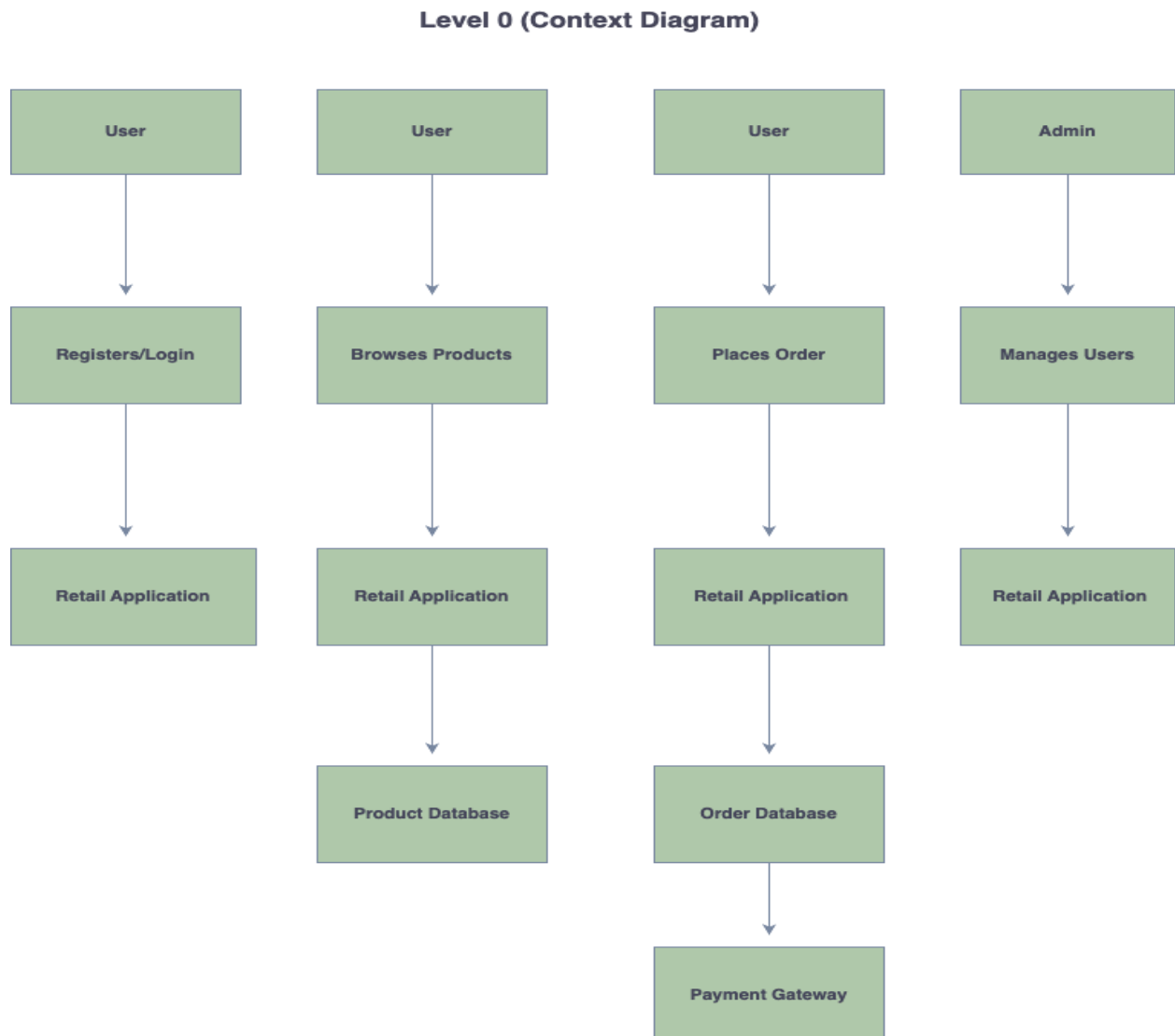
# Retail-App Data Flow Diagram (DFD)

## Level 0 (Context Diagram)

This diagram represents the entire **Retail-App** as a single process and shows the interaction between external entities and the system.

### Entities:

- **User** (Interacts with the Retail-App)
- **Admin** (Manages Users and Orders)
- **Payment Gateway** (Processes payments)



### Processes:

- **Retail Application (Process 1.0)**

### Data Stores:

- **User Database** (Stores user registration & login data)
- **Order Database** (Stores order details)
- **Product Database** (Stores product information)

## Level 1 (Detailed Breakdown of Processes)

Now, let's break down the **Retail Application (Process 1.0)** into individual processes:

### 1 User Registration & Login:

- User provides details → System validates → Stores in **User Database**
- If login is valid, access is granted; otherwise, an error is returned.

### 2 Product Browsing & Search:

- User searches for products → System fetches data from **Product Database**

### 3 Order Placement & Payment:

- User selects product & places order → System updates **Order Database**
- Payment request is sent to **Payment Gateway**, which processes the transaction

### 4 Admin Management:

- Admin can **view, update, and manage** users and orders via the **Retail Application**

### Data Flow (Level 1)

