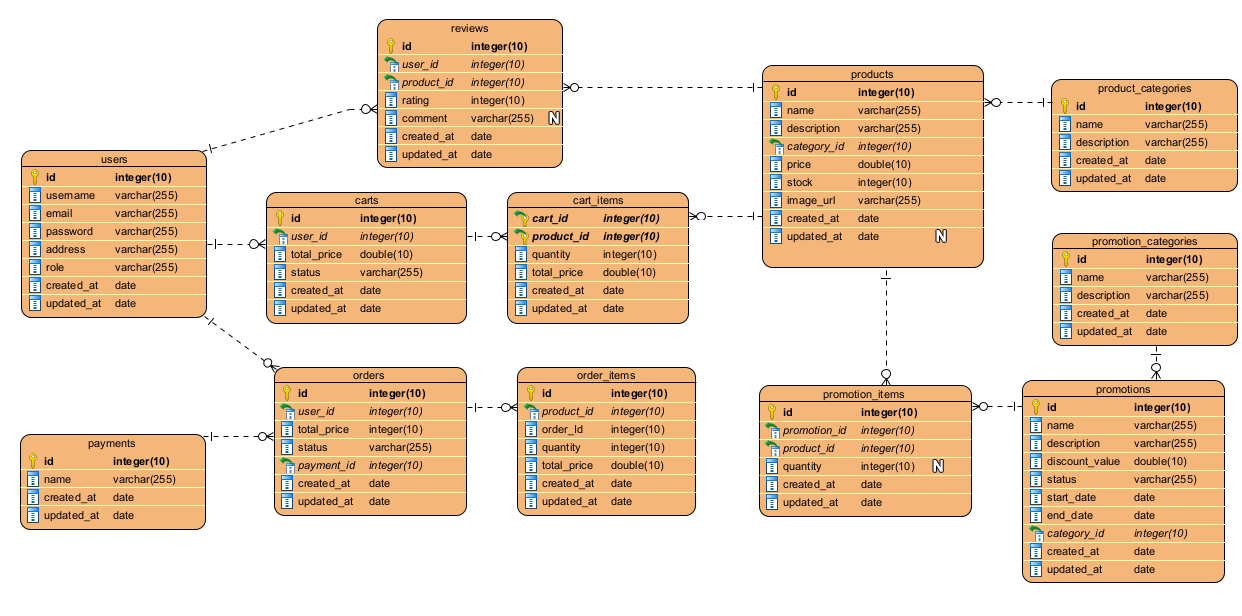
**IMART Documentation Schema**

**Overview**

IMART is an eCommerce platform that allows users to browse, purchase, and manage products online. It also provides an administrative interface for managing products, promotions, orders, and customers.

**Database Schema**

The following is the IMART database schema. This documentation will list all tables. Each table will be given a detailed description of the fields and example data.



**Users Table**

**Purpose:**

Stores information about registered users, including customers and administrators.

**Fields:**

* id (INT, PRIMARY KEY, AUTO\_INCREMENT): Unique identifier for each user.
* username (VARCHAR(255), NOT NULL, UNIQUE): User’s unique identifier.
* email (VARCHAR(255), NOT NULL, UNIQUE): User’s email address.
* password (VARCHAR(255), NOT NULL): Hashed password for authentication.
* address (VARCHAR(255), NULL): User’s residential address.
* role (VARCHAR(255), NOT NULL): Defines if the user is a customer or an admin.
* created\_at (DATETIME, DEFAULT CURRENT\_TIMESTAMP): Timestamp of account creation.
* updated\_at (DATETIME, DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP): Timestamp of last update.

**Example Data:**

!!! Note that this data is only some of the data that is stored in IMART database !!!

* User John (ID: 4) registered with the email john@gmail.com. He resides at Jl Kelapa Lilin Utara XV and has the role of user. His account was created on 2025-02-05 11:38:29 and last updated on 2025-02-05 11:38:29.
* User: Matthew (ID: 5) registered with the email matt@gmail.com. He resides at Jl Kelapa Lilin Utara XV and has the role of admin. His account was created on 2025-02-05 11:38:29 and last updated on 2025-02-05 11:38:29.
* User: Hanna (ID: 6) registered with the email hanna@gmail.com. She lives in Alam Sutera and has the role of user. Her account was created on 2025-02-05 11:38:29 and last updated on 2025-02-05 11:40:59.

**Payments Table**

**Purpose:**

Stores payment methods available in the system.

**Fields:**

* **id (INT, PRIMARY KEY, AUTO\_INCREMENT):** Unique identifier for each payment method.
* **name (VARCHAR(255), NOT NULL, UNIQUE):** Name of the payment method.
* **created\_at (DATETIME, DEFAULT CURRENT\_TIMESTAMP):** Timestamp of payment method creation.
* **updated\_at (DATETIME, DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP):** Timestamp of last update

**Example Data:**

!!! Note that this data is only some of the data that is stored in IMART database !!!

* Payment: "Credit Card" (ID: 1) is a supported payment option. Added on 2025-01-15.
* Payment"PayPal" (ID: 2) is available for online transactions. Added on 2025-01-20.

**Product\_categories Table**

**Purpose:**

Stores product categories to organize inventory.

**Fields:**

* **id (INT, PRIMARY KEY, AUTO\_INCREMENT):** Unique identifier for each category.
* **name (VARCHAR(255), NOT NULL, UNIQUE):** Category name.
* **description (VARCHAR(255), NOT NULL):** Detailed description of the category.
* **created\_at (DATETIME, DEFAULT CURRENT\_TIMESTAMP):** Timestamp of category creation.
* **updated\_at (DATETIME, DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP):** Timestamp of last update

**Example Data:**

!!! Note that this data is only some of the data that is stored in IMART database !!!

* Product Category: "Electronics" (ID: 1) includes products like headphones, smartphones, and laptops. Description: "Devices and gadgets for everyday use." Created on 2025-01-01.
* Product Category: "Furniture" (ID: 2) includes decorations, office furniture, and house furniture. Description: "Quality furniture for home and office spaces." Created on 2025-02-05.
* Product Category: "Fashion" (ID: 3) includes clothing, dresses, jackets, etc. Description: "Trendy and stylish fashion items for all seasons." Created on 2025-02-05.

**Promotion\_categories Table**

**Purpose:**

Stores different types of promotional categories.

**Fields:**

* id (INT, PRIMARY KEY, AUTO\_INCREMENT): Unique identifier for each promotion category.
* name (VARCHAR(255), NOT NULL, UNIQUE): Name of the promotion category.
* description (VARCHAR(255), NOT NULL): Summary of the promotion category.
* created\_at (DATETIME, DEFAULT CURRENT\_TIMESTAMP): Timestamp of category creation.
* updated\_at (DATETIME, DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP): Timestamp of last update.

**Example Data:**

!!! Note that this data is only some of the data that is stored in IMART database !!!

* Promotion Category: "Percentage Discounts" (ID: 1) applies discounts based on a percentage value. Description: "Product price will be cut based on the percentage discount value." Created on 2025-02-06 13:29:24.
* Promotion Category: "Fixed-Value Discount" (ID: 2) applies a specific amount off the product price. Description: "Product price will be cut based on the fixed discount value." Created on 2025-02-06 13:30:44.
* Promotion Category: "Bundle Purchase Offers" (ID: 3) provides special deals for bundled products. Description: "Offers bundle deals." Created on 2025-02-06 13:31:21.

**Products Table**

**Purpose:**

Stores details of all available products.

**Fields:**

* id (INT, PRIMARY KEY, AUTO\_INCREMENT): Unique identifier for each product.
* name (VARCHAR(255), NOT NULL, UNIQUE): Name of the product.
* description (TEXT, NOT NULL): Detailed information about the product.
* category\_id (INT, FOREIGN KEY, NOT NULL): Links to a category.
* price (DOUBLE, NOT NULL): Price of the product.
* stock (INT, NOT NULL): Available quantity.
* image\_url (VARCHAR(255), NOT NULL): Link to the product image.
* created\_at (DATETIME, DEFAULT CURRENT\_TIMESTAMP): Timestamp of product creation.
* updated\_at (DATETIME, DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP): Timestamp of last update.

**Example Data:**

!!! Note that this data is only some of the data that is stored in IMART database !!!

* Product: "Wireless Mouse" (ID: 1) is priced at 200000 and falls under the Electronics category. It has 150 units in stock. Description: "A high-quality wireless mouse with ergonomic design." Added on 2025-02-05 16:01:42.
* Product: "Bluetooth Speaker X100" (ID: 2) is priced at 270000.5 and falls under the Electronics category. It has 180 units in stock. Description: "The Bluetooth Speaker X100 is designed for music lovers who want high-quality sound in a portable, stylish package." Added on 2025-02-05 16:04:34.
* Product: "REVEN LEATHER - Asgard Laptop Bag" (ID: 3) is priced at 399999.99 and falls under the Fashion category. It has 88 units in stock. Description: "Sleek and stylish genuine leather crossbody bag with adjustable strap, perfect for both casual and formal occasions." Added on 2025-02-05 16:07:38.

**Promotions Table**

**Purpose:**

Stores information about ongoing promotions.

**Fields:**

* id (INT, PRIMARY KEY, AUTO\_INCREMENT): Unique identifier for each promotion.
* name (VARCHAR(255), NOT NULL): Promotion title.
* description (VARCHAR(255), NOT NULL): Details of the promotion.
* discount\_value (DOUBLE, NOT NULL): Discount applied.
* status (VARCHAR(255), NULL): Promotion status.
* start\_date (DATETIME, NOT NULL): Promotion start date.
* end\_date (DATETIME, NOT NULL): Promotion end date.
* category\_id (INT, FOREIGN KEY, NOT NULL): Links to a promotion category.
* created\_at (DATETIME, DEFAULT CURRENT\_TIMESTAMP): Timestamp of creation.
* updated\_at (DATETIME, DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP): Timestamp of last update.

**Example Data:**

!!! Note that this data is only some of the data that is stored in IMART database !!!

* Promotion: "Flash Sales" (ID: 1) offers a 15% discount and is currently active. Starts on 2025-02-07 10:00:00 and ends on 2025-04-10 23:59:59.
* Promotion: "Drop Deal" (ID: 3) provides a 100,000 cut from product prices. It is active from 2025-02-01 10:00:00 to 2025-04-28 23:59:59.

**Promotion\_items Table**

**Purpose:**

Stores products associated with specific promotions.

**Fields:**

* id (INT, PRIMARY KEY, AUTO\_INCREMENT): Unique identifier for each promotion item.
* promotion\_id (INT, FOREIGN KEY, NOT NULL): Links to a promotion.
* product\_id (INT, FOREIGN KEY, NOT NULL): Links to a product.
* quantity (INT, NOT NULL): Number of items included in the promotion.
* created\_at (DATETIME, DEFAULT CURRENT\_TIMESTAMP): Timestamp of creation.
* updated\_at (DATETIME, DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP): Timestamp of last update.

**Example Data:**

!!! Note that this data is only some of the data that is stored in IMART database !!!

* **Promotion Item:** "Wireless Mouse" (Product ID: 1) is included in the **Flash Sales** promotion (Promotion ID: 1) with a quantity of **1**. Added on **2025-02-10 11:28:20.**
* **Promotion Item:** "REVEN LEATHER - Asgard Laptop Bag" (Product ID: 3) is part of the **Flash Sales** promotion (Promotion ID: 1) with a quantity of **1**. Added on **2025-02-10 11:28:33.**
* **Promotion Item:** "AGOLDE '90s mid-rise straight-leg organic jeans" (Product ID: 5) is part of the **Flash Sales** promotion (Promotion ID: 1) with a quantity of **1**. Added on **2025-02-10 11:28:44.**
* **Promotion Item:** "VIMLE Sofa 3 dudukan" (Product ID: 6) is included in the **Drop Deal** promotion (Promotion ID: 3) with a quantity of **1**. Added on **2025-02-10 15:03:37.**

**Reviews Table**

**Purpose:**

Stores user reviews and ratings for products.

**Fields:**

* id (INT, PRIMARY KEY, AUTO\_INCREMENT): Unique identifier for each review.
* user\_id (INT, FOREIGN KEY, NOT NULL): Links to the user who wrote the review.
* product\_id (INT, FOREIGN KEY, NOT NULL): Links to the reviewed product.
* rating (INT, NOT NULL, CHECK BETWEEN 1 AND 5): User's rating for the product.
* title (VARCHAR(255), NOT NULL): Short title of the review.
* comment (VARCHAR(1000), NOT NULL): Detailed review comment.
* created\_at (DATETIME, DEFAULT CURRENT\_TIMESTAMP): Timestamp of review creation.
* updated\_at (DATETIME, DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP): Timestamp of last update.

**Example Data:**

!!! Note that this data is only some of the data that is stored in IMART database !!!

* Review: User ID 5 rated Bluetooth Speaker X100 (Product ID: 2) 4 stars. Title: "Great Sound for the Price!" Comment: "I’ve been using the Bluetooth Speaker X100 for a few weeks now, and I’m really impressed with the sound quality." Posted on 2025-02-12 15:57:52.
* Review: User ID 4 rated Bluetooth Speaker X100 (Product ID: 2) 3 stars. Title: "Decent Speaker, But Has Some Flaws" Comment: "The Bluetooth Speaker X100 is okay for the price. The sound quality is decent, and it's easy to connect." Posted on 2025-02-12 15:57:21.

**Carts Table**

**Purpose:**

Stores shopping cart details for users.

**Fields:**

* id (INT, PRIMARY KEY, AUTO\_INCREMENT): Unique identifier for each cart.
* user\_id (INT, FOREIGN KEY, NOT NULL): Links to a user.
* total\_price (DOUBLE, DEFAULT NULL): Total price of items in the cart.
* status (VARCHAR(255), DEFAULT NULL): Current status of the cart (e.g., active, completed).
* created\_at (DATETIME, DEFAULT CURRENT\_TIMESTAMP): Timestamp of cart creation.
* updated\_at (DATETIME, DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP): Timestamp of last update.

**Example Data:**

!!! Note that this data is only some of the data that is stored in IMART database !!!

* Cart: User ID 4 has a cart (Cart ID: 1) with a total price of 1,781,889.9915 and status completed. Created on 2025-02-19 11:07:34.
* Cart: User ID 9 has a cart (Cart ID: 2) with a total price of 0 and status active. Created on 2025-02-11 14:39:12.
* Cart: User ID 10 has a cart (Cart ID: 3) with a total price of 0 and status active. Created on 2025-02-18 10:36:30.
* Cart: User ID 4 has another cart (Cart ID: 53) with a total price of 0 and status active. Created on 2025-02-19 14:14:25.

**Cart\_items Table**

**Purpose:**

Stores individual products within a shopping cart.

**Fields:**

* id (INT, PRIMARY KEY, AUTO\_INCREMENT): Unique identifier for each cart item.
* cart\_id (INT, FOREIGN KEY, NOT NULL): Links to a cart.
* product\_id (INT, FOREIGN KEY, NOT NULL): Links to a product.
* quantity (INT, NOT NULL): Number of units of the product in the cart.
* total\_price (DOUBLE, DEFAULT NULL): Total price of the product quantity.
* created\_at (DATETIME, DEFAULT CURRENT\_TIMESTAMP): Timestamp of creation.
* updated\_at (DATETIME, DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP): Timestamp of last update.

**Example Data:**

!!! Note that this data is only some of the data that is stored in IMART database !!!

* Cart Item: "REVEN LEATHER - Asgard Laptop Bag" (Product ID: 3) is in Cart ID: 1 with a quantity of 1 and total price 339999.9915. Added on 2025-02-19 10:08:06.
* Cart Item: "VIMLE Sofa 3 dudukan" (Product ID: 7) is in Cart ID: 1 with a quantity of 1 and total price 1441890. Added on 2025-02-19 10:07:37.

**Orders Table**

**Purpose:**

Stores order details placed by users.

**Fields:**

* id (INT, PRIMARY KEY, AUTO\_INCREMENT): Unique identifier for each order.
* user\_id (INT, FOREIGN KEY, NOT NULL): Links to a user.
* total\_price (DOUBLE, DEFAULT NULL): Total price of the order.
* status (VARCHAR(255), DEFAULT NULL): Current status of the order (e.g., pending, completed).
* payment\_id (INT, FOREIGN KEY, NOT NULL): Links to a payment transaction.
* created\_at (DATETIME, DEFAULT CURRENT\_TIMESTAMP): Timestamp of order creation.
* updated\_at (DATETIME, DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP): Timestamp of last update.

**Example Data:**

!!! Note that this data is only some of the data that is stored in IMART database !!!

* Order: User ID 7 placed an order (Order ID: 1) with a total price of 540001 and status completed. Payment ID 2 was used. Created on 2025-02-12 11:24:01.
* Order: User ID 9 placed an order (Order ID: 2) with a total price of 540001 and status completed. Payment ID 2 was used. Created on 2025-02-12 11:24:10.
* Order: User ID 4 placed an order (Order ID: 3) with a total price of 1960078.99065 and status completed. Payment ID 2 was used. Created on 2025-02-19 11:07:34.

**Order\_items Table**

**Purpose:**

Stores details of individual products within an order.

**Fields:**

* id (INT, PRIMARY KEY, AUTO\_INCREMENT): Unique identifier for each order item.
* product\_id (INT, FOREIGN KEY, NOT NULL): Links to a product.
* order\_id (INT, FOREIGN KEY, NOT NULL): Links to an order.
* quantity (INT, NOT NULL): Number of units of the product in the order.
* total\_price (DOUBLE, DEFAULT NULL): Total price of the product quantity.
* created\_at (DATETIME, DEFAULT CURRENT\_TIMESTAMP): Timestamp of creation.
* updated\_at (DATETIME, DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP): Timestamp of last update.

**Example Data:**

!!! Note that this data is only some of the data that is stored in IMART database !!!

* Order Item: "Bluetooth Speaker X100" (Product ID: 2) in Order ID: 1 with a quantity of 2 and total price 540001. Created on 2025-02-12 11:28:11.
* Order Item: "Bluetooth Speaker X100" (Product ID: 2) in Order ID: 2 with a quantity of 2 and total price 540001. Created on 2025-02-12 11:28:20.
* Order Item: "REVEN LEATHER - Asgard Laptop Bag" (Product ID: 3) in Order ID: 3 with a quantity of 1 and total price 339999.9915. Created on 2025-02-19 11:07:35.
* Order Item: "VIMLE Sofa 3 dudukan" (Product ID: 7) in Order ID: 3 with a quantity of 1 and total price 1441890. Created on 2025-02-19 11:07:35.