

## Database

### Document Purpose

This document is prepared to present and detail the **logical and physical structure (Schema)** of the database utilized for the **Product Management System**. This system was developed as part of the Final Task - Individual Assignment. This documentation serves as a critical reference blueprint for the development team and system administrators, ensuring a clear and accurate understanding of the tables, columns, data types, and all constraints governing data storage and integrity.

### 1.2 General Information

Item	Detail
Schema Name	Std6630202627.sql
Database Management System (DBMS)	MySQL
Server Host	nindam.sytes.net
Data Nature	Essential product information required for business operation, including product names, prices, descriptions, and active status.

## Database Schema

This section outlines the technical structure of the `electronic_devices` table, detailing data types, keys, and constraints.

### 1.1 General Information

Item	Details
Schema Name	Std6630202627.sql
Table Name	electronic_device (used to store product data)
DBMS	MySQL

### 1.2 Table Structure: electronic\_devices

Column Name	Data type	Nullable	Key	Constraint / Flags
ID	INT	NO	Primary key	AUTO_INCREMENT, UNSIGNED
Name	VARCHAR(255)	NO	Unique Index	NOT NULL_Ensures product name uniqueness
Category	VARCHAR(100)	YES		Category of the device
Stock	INT	NO		NOT NULL, Quantity available in stock
Location	VARCHAR(255)	YES		Storage or store location
Status	VARCHAR(50)	NO		NOT NULL, Current available status
Image	TEXT	YES		URL of the product image
Created_at	TIMESTAMP	NO		DEFAULT CURRENT_TIMESTAMP

## Data Dictionary

This section provides a contextual and business-focused explanation of what each column means and how it is used within the product management system.

**Table: electronic\_devices**

Column Name	Data type	Description	Usage / Constraint note
ID	INT	Unique identifier for each	Primarily key for fast retrieval
Name	VARCHAR(255)	The full name and model of the product	Must be unique used as the main display name, and for the search function
Category	VARCHAR(100)	The classification or type of the product	Uses for filtering and categorization
Stock	INT	The current , quantity of the product held in inventory	Unit of measure is units or prices update updated the sales /restock
Location	VARCHAR(255)	The physical storage or warehouse location of the item	Helps with inventory management
Status	VARCHAR(50)	The current availability stated of the product	Can indicate text value or a code
Image	TEXT	The network you are a link to the Products Image file	Used to render images in the react native frontend
Created_at	TIMESTAMP	The date and time the product because was first	System generated timestamp