Great — adding a **PHP + MySQL backend** will make your project dynamic and real-world ready. Here's a **structured approach** to upgrade your DSU Sports Equipment Store project:

**🔧 PHASE 1: Setup the Backend Environment**

**✅ Requirements:**

* **XAMPP / WAMP** for local PHP-MySQL server
* MySQL Database
* PHP 8.x

**📁 PHASE 2: Project Structure (Suggested)**

/project-folder/

├── index.html (Home Page)

├── style.css

├── script.js

├── /php/

│ ├── db.php # DB connection

│ ├── register.php # Signup

│ ├── login.php # Login

│ ├── logout.php

│ ├── products.php # Fetch product list

│ ├── add\_to\_cart.php

│ ├── admin/

│ │ ├── add\_product.php

│ │ ├── edit\_product.php

│ │ └── delete\_product.php

├── /uploads/ # Product images

└── /sql/

└── sports\_store.sql # DB schema

**🗃️ PHASE 3: Database Schema (MySQL)**

**🧾 Tables:**

**users**

| id | name | email | password (hashed) | role (admin/user) |

**products**

| id | name | description | price | image | category |

**cart**

| id | user\_id | product\_id | quantity |

**orders**

| id | user\_id | date | total |

**order\_items**

| id | order\_id | product\_id | quantity | price |

**🧠 PHASE 4: Functional Features**

**🔐 Authentication:**

* User registration/login/logout (using PHP Sessions)
* Admin login for dashboard access

**🛒 Product & Cart:**

* View products (fetched dynamically via PHP)
* Add to cart (store in DB, not localStorage anymore)
* Checkout (create order, empty cart)

**⚙️ Admin Panel:**

* Add/edit/delete products
* View/manage orders
* Manage discounts/promotions

**🎁 PHASE 5: Optional Enhancements**

| **Feature** | **Description** |
| --- | --- |
| **Search & Filter** | Search by keyword/category |
| **User Profile Page** | View order history |
| **AJAX & Fetch API** | Smooth interactions (e.g., add to cart) |
| **Image Uploads** | Allow admin to upload product images |
| **Discount Codes** | Use promo codes on checkout |
| **Email Notifications (optional)** | On order confirmation (via PHPMailer) |
| **Responsiveness** | Use Bootstrap or Media Queries |
| **Security** | Hash passwords (bcrypt), validate inputs |

**✅ Development Flow**

1. **Setup XAMPP and MySQL**
2. **Design the DB and import SQL schema**
3. **Build user registration & login (with sessions)**
4. **Connect frontend to backend (load products via PHP)**
5. **Implement cart system with PHP + DB**
6. **Create admin dashboard with product/order management**
7. **Test end-to-end purchase flow**
8. **Polish the UI with dynamic content**

Would you like me to:

* Create the **SQL database structure**?
* Start with **user registration and login** PHP code?
* Or show **admin panel design** first?

You can pick any of these, and we’ll build it step-by-step.

To successfully upgrade your **DSU Sports Store** with backend features in PHP & MySQL, here's the **step-by-step order (development roadmap)** you should follow:

**✅ 1. Environment Setup**

* Install **XAMPP** or **WAMP** (PHP + MySQL + Apache)
* Test localhost with a sample index.php
* Create a project folder (dsu-sports-store) inside htdocs/

**✅ 2. Database Design & Schema**

* Design all required tables (users, products, cart, etc.)
* Create the database (sports\_store) using **phpMyAdmin**
* Import the SQL schema (I'll help you write it)

**✅ 3. User Authentication System**

* Create register.php, login.php, and logout.php
* Use PHP Sessions to maintain login
* Add role (admin/user) to control access

**✅ 4. Product Management (Admin)**

* Build admin dashboard:
  + add\_product.php
  + edit\_product.php
  + delete\_product.php
* Store image paths and details in products table

**✅ 5. Display Products on Frontend (Dynamic)**

* Use products.php to fetch product list
* Load product data on index.html using PHP or Fetch/AJAX (optional for dynamic)

**✅ 6. Shopping Cart System**

* Replace localStorage cart with **database cart**
* On add to cart, send product ID to add\_to\_cart.php
* Build cart.php to display user’s cart

**✅ 7. Checkout and Order Management**

* Add checkout.php to confirm orders
* Create entries in orders and order\_items tables
* Display user order history

**✅ 8. Admin Order Tracking**

* Admin dashboard to view all orders
* Status management (optional: delivered, processing)

**✅ 9. Optional Enhancements**

* **Search + Filter**
* **Image upload** with validation
* **Discount code** or **coupon system**
* **Email notifications** (with PHPMailer)
* **AJAX & Fetch API** for smooth UI
* **Responsive Design** using Bootstrap
* **Security**: bcrypt for password, form validation

**📌 Final Order Summary**

| **Phase** | **Task** |
| --- | --- |
| 1 | Setup PHP + MySQL environment |
| 2 | Design DB and create schema |
| 3 | User registration and login (sessions) |
| 4 | Admin product management panel |
| 5 | Display products dynamically |
| 6 | Cart system using PHP & MySQL |
| 7 | Checkout and order creation |
| 8 | Admin panel for orders |
| 9 | Optional features and final UI polish |

Let me know where you want to begin — I can write the SQL file or PHP login system first.