# 🗄 Database Design – ShopSmart (MongoDB + Mongoose)

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## ⚒ Technology

- **Database**: MongoDB (NoSQL)

- **ODM (Object Document Mapper)**: Mongoose (for schema modeling & validation)

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## 📋 Main Collections (Schemas)

1. 💼 **User**
2. 📦 **Product**
3. 🛒 **Cart**
4. 📄 **Order**
5. 💬 **Message / Inquiry (Optional)**

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## 🔗 Relationships

- **User ↔ Product**: One-to-many (a seller can have many products)

- **User ↔ Order**: One-to-many (a customer can place multiple orders)

- **Order ↔ Product**: Many-to-many via embedded item arrays

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## 🔐 Best Practices

- Passwords hashed using **bcrypt**

- Use **timestamps** to track creation/update

- Normalize user roles for access control

- Use **population** in Mongoose to fetch related data (e.g., product inside order)