**✅ Shoptobd Project - Complete Progress Summary**

**🚀 Project Overview**

**Shoptobd** is a **pre-order-based platform** for ordering international products, including:

* Customer ordering portal
* Admin backend management system
* Responsive public website (planned)
* Real-time product scraping (planned)

**⚙️ Tech Stack & Architecture**

* **Frontend**: HTML, CSS, JavaScript, React.js (planned)
* **Backend**: Node.js, Express.js (**Completed**)
* **Database**: PostgreSQL (**Completed**)
* **Authentication**: JWT-based (Completed)
* **APIs**: bKash, Bank Payments, Web Scraper (planned)
* **Version Control**: GitHub (**Completed**)

**Database Management**

* **Backup**:

bash

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pg\_dump -U postgres -d shoptobd -F c -f shoptobd\_backup.sql

* **Restore**:

bash

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pg\_restore -U postgres -d shoptobd shoptobd\_backup.sql

**📚 Key Features & Status**

**🧑‍💻 Backend Development (Fully Completed)**

* ✅ **User Authentication**:
  + Email & Password login ✅
  + Phone OTP-based login ✅
  + Social Logins (Google & Facebook) implemented with mock data ✅
* ✅ **Order Processing**:
  + Product price calculation with **taxes** and **shipping charges per product** ✅
  + **Unique Order Number** generation ✅
  + Order Finalization with auto-applied **delivery charges**, **COD charges**, and **bKash fees** ✅
* ✅ **Payment Management**:
  + Track payments, upload proofs ✅
  + Handle COD, bank, bKash payments ✅
* ✅ **Invoice Generation**:
  + Initial and Final invoices generation ✅
* ✅ **Order Status Management**:
  + Order statuses: Pending → Advance Due → Advance Paid → Order Placed → Shipped from USA → Arrived in BD → Delivery/Pickup Pending → Delivered/Picked up ✅
  + Cancellation & Refund statuses ✅
* ✅ **Refund Processing**:
  + Supports Credit, bKash, Bank Transfer, and Cash ✅ (**Cash option newly added**)
  + Tracks admin approvals and transaction references ✅
* ✅ **Reports and Analytics**:
  + Daily, monthly sales reports ✅
  + Payment method breakdown ✅

**🗃️ Database Tables (Completed)**

| **Table Name** | **Purpose** | **Status** |
| --- | --- | --- |
| customers | Store customer details | ✅ Completed |
| user\_auth | Authentication data | ✅ Completed |
| orders | Track orders | ✅ Completed |
| order\_items | Individual product line items | ✅ Completed |
| invoices | Invoice details | ✅ Completed |
| payments | Payment details and charges | ✅ Completed |
| refunds | Refund requests and details | ✅ Completed (**cash refund option added**) |
| refund\_processing | Track refund processing and transaction ref. | ✅ Completed (**transaction\_reference added**) |
| shipments | International shipment details | ✅ Completed |
| local\_delivery | Local delivery details | ✅ Completed |
| sales\_reports | Sales analytics | ✅ Completed |
| activity\_logs | Logs admin actions | ✅ Completed |
| tax\_rates | Exchange & tax rates | ✅ Completed |
| admin\_users | Admin user management | ✅ Completed |
| admin\_roles | Admin roles & permissions | ✅ Completed |
| addresses | Customer address book | ✅ Completed |
| order\_status\_history | Track all order status changes | ✅ Completed |

**⚙️ Recently Implemented Features**

* 🔹 **Order Price Calculation:**
  + Now includes shipping cost per product and taxes correctly applied.
  + Final amount calculations now auto-include delivery & payment charges.
* 🔹 **Order Status Management:**
  + Implemented new detailed order statuses with complete tracking.
* 🔹 **Sales Reports Automation:**
  + Auto-update daily sales report when order finalizes, tracking total orders, payments breakdown.
* 🔹 **Refund System:**
  + Added "Cash" as refund option.
  + Tracking "transaction\_reference" for admin refund processing.

**✅ Testing & Validation**

* **Order Creation:** Successfully tested with multiple products, auto-calculated taxes, and charges.
* **Order Finalization:** Tested successfully with auto-applied COD & bKash charges.
* **Refund & Sales Reporting:** Tested with successful updates to the database.

**⚠️ Recent Issues Fixed**

* **Parameter Error in Sales Reports:**  
  **Issue:** "Could not determine data type" error during payment method breakdown update.  
  **Fix:** Explicit casting and correct SQL query adjustment.
* **Foreign Key Constraint Error:**  
  **Issue:** Foreign key errors when changing order status.  
  **Fix:** Ensured correct admin IDs and verified foreign key relationships.

**🚨 Known Pending Tasks**

* Frontend Development (UI & UX)
* Live Google & Facebook API integration
* Real-time Product Scraping System
* Notification & Email System
* Advanced Admin Dashboard Reporting

**📝 Latest Scope of Work (SOW) Document**

* Database and backend fully documented and updated.
* Latest features and database changes incorporated.
* Recently completed tasks clearly indicated.

**💻 Final Notes for Continuation**

You have successfully:

* Completed backend development and database setup.
* Implemented advanced order processing and refund systems.
* Verified database integrity and application logic.

**🚩 Next Steps Recommended**

* Begin developing the **Frontend** using React.
* Integrate Google & Facebook APIs.
* Implement **real-time web scraping** to automate product detail retrieval.
* Enhance **notification system** for better user engagement