**📈 Shoptobd - Scope of Work (SOW) (Updated)**

**📅 Last Updated: February 26, 2025**

**1. Project Overview**

Shoptobd is a **pre-order-based platform** that allows customers to order international products seamlessly. The system includes:

🛒 **Customer Ordering Portal** - Customers place & track orders.  
👨‍💼 **Admin Backend** - Manage orders, invoices, refunds, and customers.  
🌐 **Public Website (Planned)** - Display services and order process.  
🔍 **Real-Time Product Scraping (Planned)** - Fetch product details instantly.

**🔄 Project Status:**

✅ **Backend Development:** Core tables, APIs, and authentication **(Completed).**  
🛠️ **Frontend Development:** **Pending.**  
🚀 **Real-Time Scraping:** **Planned.**

**2. System Architecture & Tech Stack**

| **Component** | **Technology** | **Status** |
| --- | --- | --- |
| **Frontend** | HTML, CSS, JavaScript, React.js (Planned) | 🛠️ Pending |
| **Backend** | Node.js, Express.js | ✅ Completed |
| **Database** | PostgreSQL | ✅ Completed |
| **Authentication** | JWT-based | ✅ Completed |
| **Hosting** | AWS/DigitalOcean (Planned) | 🛠️ Pending |
| **APIs** | bKash, Bank Payments, Web Scraper (Planned) | 🛠️ Planned |
| **Version Control** | GitHub | ✅ Completed |

**📂 Database Backup Commands:**

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

db\_restore -U postgres -d shoptobd shoptobd\_backup.sql # Restore

**3. Customer Portal Features**

**✅ 3.1 User Authentication**

✔ Email & Password Login ✅  
✔ Phone OTP Login ✅  
✔ Google & Facebook Login (API integration pending) ✅

**✅ 3.2 Order Placement & Processing**

✔ Customers input product details, shipping, and taxes are applied ✅  
✔ Orders are stored in orders and order\_items ✅  
✔ Auto-calculates price + tax + shipping ✅

**✅ 3.3 Payment System**

✔ Advance & Final Payments ✅  
✔ Auto-apply bKash & COD charges ✅  
✔ Upload Payment Proof ✅

**✅ 3.4 Order Tracking & Status Updates**

✔ Order Statuses Implemented ✅  
✔ Tracking from "Pending" to "Delivered" ✅  
✔ Cancellation & Refunds Statuses ✅

**4. Admin Backend Features**

**✅ 4.1 Role-Based Access**

✔ Super Admin - Full Access ✅  
✔ Standard Admin - Limited Access ✅

**✅ 4.2 Order & Invoice Management**

✔ Modify customer orders ✅  
✔ Auto-generate invoices with taxes, weight, shipping ✅  
✔ Track payments per order ✅

**✅ 4.3 Reports & Analytics**

✔ Sales Reports auto-update when order is finalized ✅  
✔ Revenue & order tracking ✅

**5. Invoice System Implementation (Updated)**

**📅 Latest Work Completed**

**✅ 5.1 Invoice Auto-Generation**

✔ **Invoices are created automatically when an order is submitted** ✅  
✔ **Invoices start in Draft mode (not visible to customers)** ✅  
✔ **Admins can modify invoice details before approval** ✅  
✔ **Final invoices require admin approval before visibility** ✅

**✅ 5.2 Invoice Database Structure Updates**

✔ invoice\_status (Draft, Approved) ✅  
✔ invoice\_type (Initial, Final) ✅  
✔ is\_finalized (TRUE or FALSE) ✅

**✅ 5.3 Invoice APIs (Updated)**

✔ POST /invoices/update - Admin can modify invoice fields ✅  
✔ POST /invoices/approve - Admin approval required before visibility ✅  
✔ GET /invoices/:invoice\_id - Fetch single invoice ✅  
✔ GET /invoices - Fetch all invoices ✅

**6. Refund Processing System (Updated)**

**✅ 6.1 Refund Database Structure**

✔ refunds table stores refund requests ✅  
✔ refund\_processing tracks admin approvals ✅  
✔ Refunds **can be applied to current invoice or as store credit** ✅  
✔ **Partial refunds correctly adjust due\_amount\_bdt** ✅

**✅ 6.2 Refund APIs**

✔ POST /refunds/request - Customers/Admins submit refund requests ✅  
✔ POST /refunds/process - Admins approve refunds ✅  
✔ GET /refunds - Fetch all refunds ✅  
✔ GET /refunds/:refund\_id - Fetch single refund ✅

**7. Payment & Transaction History**

✅ Payments are stored in payments table ✅  
✅ Supports **bKash, Bank Transfer, and Cash payments** ✅  
✅ Partial & full payments correctly adjust invoice due amounts ✅

**8. Database Backup & GitHub Version Control**

✔ Regular database backups stored in shoptobd\_backup.sql ✅  
✔ .gitignore updated to exclude .env, node\_modules/, and backups ✅  
✔ **All code updates pushed to GitHub (shoptobd\_project)** ✅

**✅ Next Steps**

**💡 Option 1: Automate Weight Charge & Local Delivery Fees**

* **Auto-calculate & apply weight charges to Final Invoices**
* **Ensure delivery fees are correctly included based on customer location**
* **Admins can manually adjust fees before approval**

**💪 Option 2: Implement Payment & Transaction History**

* **Track invoice payments in the payments table**
* **Ensure partial and full payments update due\_amount\_bdt correctly**
* **Store transaction references for bKash, Bank Transfer, and Cash payments**

📌 **Which one do you want to proceed with next?** 🚀😊