

TailorPro Backend - Handover Document (UPDATED)

Date: 2026-01-19

Status: ☒ Backend Complete + Order Detail Screen Requirements

What We Built

3 Core Apps:

1. **orders** - Customer, Order, OrderItem, Item (with inventory)
 2. **invoicing** - Invoice, InvoiceItem (GST compliant)
 3. **financials** - ReceiptVoucher, Payment, RefundVoucher
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Key Models & Fields

Customer Model

- Basic: name, phone, whatsapp, email, gender, customer_type (B2C/B2B)
- Business: business_name, gstin, pan
- Address: address, city, state, pincode
- **Measurements:** All gender-specific fields (women/men) + custom fields 1-10
- Soft delete: is_active, deleted_at

Order Model

- Order tracking: order_number (auto), order_date, expected_delivery_date
- Status: order_status, delivery_status

- Work: assigned_to (employee assignment)
- **QR Code:** Auto-generated for tracking
- **Reference Photos:** Unlimited via OrderReferencePhoto model (max 6 in UI)
- Lock: is_locked (after invoice created)
- **Notes:** order_notes (read-only after confirmation), change_requests (always editable with timestamp)

Item Model (Unified Catalog)

- Type: item_type (SERVICE/PRODUCT)
- **Inventory:** track_stock (yes/no), current_stock, min_stock_level, allow_negative_stock
- Stock: opening_stock, current_stock (auto-calculated)
- Pricing: purchase_price, selling_price (both optional)
- GST: hsn_sac_code, tax_percent
- Barcode: barcode field
- Safety: has_been_used (locks critical fields), is_active, deleted_at

Invoice Model

- Numbers: invoice_number (INV-YYYYMM-00001)
- Customer: Links to Customer
- Order: Optional link to Order (null for walk-ins)
- **Addresses:** billing_address, shipping_address (snapshot at invoice time)
- **GST:** tax_type (INTRASTATE/INTERSTATE/ZERO based on tenant.gst_enabled + states)
- Amounts: subtotal, cgst, sgst, igst, grand_total
- **Advance:** total_advance_adjusted (from ReceiptVouchers)
- Payment: total_paid, remaining_balance, payment_status

ReceiptVoucher Model (Advance)

- Numbers: voucher_number (RV-YYYYMM-00001)
- **GST on Advance:** $\text{advance_amount} + \text{cgst} + \text{sgst/igst} = \text{total_amount}$
- Link: customer, order (optional)
- **Adjustment:** adjusted_amount (property: is_adjusted)
- Cash tracking: deposited_to_bank, deposit_date

Payment Model

- Links to Invoice only
- No GST (GST already in invoice)
- Tracks: amount, payment_mode, transaction_reference

RefundVoucher Model

- Links to original ReceiptVoucher
 - **GST Reversal:** Copies GST from original receipt and reverses
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Critical Business Rules

GST Logic (FIXED)

☒ ZERO GST only when:

- `tenant.gst_enabled = False` OR
- `item.tax_percent = 0`

☒ NOT based on customer GSTIN

GST on Advances - NEW CALCULATION METHOD

Weighted Average Tax Rate (Rounded to Standard Rates):

```
python

# For orders with mixed tax rates
# Calculate proportional tax based on item values

weighted_avg =  $\Sigma(\text{item\_amount}/\text{total} \times \text{item\_tax\_percent})$ 
rounded_rate = nearest_standard_rate([0, 5, 12, 18, 28])

# Reverse calculate from inclusive amount
base_amount = total_received / (1 + rounded_rate/100)
gst_amount = total_received - base_amount
cgst = sgst = gst_amount / 2 # or IGST if interstate
```

Example:

Order Items:

- Blouse (5%): ₹10,000
- Embroidery (18%): ₹2,000

Total: ₹12,000

Weighted avg = $(10000/12000 \times 5\%) + (2000/12000 \times 18\%)$
= 4.17% + 3% = 7.17%

Rounded to nearest = 5%

Customer pays ₹5000 advance:

Base = $5000/1.05 = ₹4761.90$

GST @ 5% = ₹238.10

For Non-GST Users:

```
python
```

```
if not tenant.gst_enabled:  
    base_amount = total_received  
    gst = 0
```

Inventory Logic

- If `(item.track_stock = True)` → deduct stock on order/invoice
- If `(allow_negative_stock = True)` → allow orders even when stock low
- StockTransaction: Auto-created audit trail (IN/OUT/ADJUSTMENT)

Safety Features

- **Soft Delete:** Never hard-delete Customer, Order, Item (use `is_active=False`)
 - **Lock Fields:** After item used in order: lock `item_type`, `track_stock`, `unit`
 - **Opening Stock:** Editable only once on creation
 - **Immutability:** Issued receipts/invoices cannot be edited (set `is_issued`)
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Auto-Generated Fields




- `order_number`: ORD-YYYYMM-00001
- `invoice_number`: INV-YYYYMM-00001
- `voucher_number`: RV-YYYYMM-00001
- `payment_number`: PAY-YYYYMM-00001
- `refund_number`: RF-YYYYMM-00001
- QR codes: Auto-generated for orders and inventory items

Order Detail Screen Requirements

Tab Structure (4 Tabs)

1. Overview Tab (Default)

Cards:


- **Customer & Status**
 - Customer name, phone
 - Order Status badge with  (tap to change)
 - Delivery Status badge with  (tap to change)
- **Order Information**
 - Order Date
 - Expected Delivery Date
 - Assigned To (employee) with 
- **Financial Summary**
 - Order Total
 - Advance Received
 - Balance Due
- **Reference Photos**
 - 3 column grid layout
 - Max 6 photos
 - Delete (X) button on each
 - [+ Add] button
- **QR Code**

- Small thumbnail
- Tap to enlarge/view full screen

Bottom Buttons:

- [Edit Order Details] - Opens dialog to edit order date, expected delivery, assigned to, order notes
- [Create Invoice]

Lock Indicator:

- Show  icon in header when invoice created
 - Show banner: "This order is locked. Invoice INV-XXXXXXX has been created. Items cannot be modified."
 - Disable edit buttons when locked
-

2. Items Tab

Table Format:

Item Name		Qty		Rate		Tax%		Amount		:
-----------	--	-----	--	------	--	------	--	--------	--	---

: Menu Actions (per row):

- Edit Item (opens dialog with item details)
- Delete Item (shows confirmation)

Bottom Button:

- [+ Add Item] - Opens same dialog as order creation

When Locked:

- Hide/disable all edit/delete actions
- Show read-only table

Edit Allowed:

- Until Order Status = "Completed"
 - Once invoice created = LOCKED (no edits)
-

3. Payments Tab**Sections:****1. Financial Summary**

- Order Total
- Total Paid (advances + invoice payments)
- Balance Due

2. All Payments (Combined list - chronological order)

- Type badge (Advance / Invoice Payment)
- Voucher/Payment number
- Date
- Payment mode
- Amount
- Status (for advances: Adjusted/Not Adjusted)

Shows both:

- Receipt Vouchers (advances)

- Payments (invoice payments)

3. **Invoice Details** (if invoice exists)

- Invoice number, date
- Invoice total
- [View Invoice] link

Bottom Button:

- [+ Record Payment]
 - If no invoice: Creates ReceiptVoucher (advance)
 - If invoice exists: Can create either advance or invoice payment
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4. Notes Tab

Two Sections:

1. **Order Notes**

- Original requirements captured at order creation
- **Read-only after order confirmed**
- Editable only when Order Status = "Draft"

2. **Change Requests**

- Always editable (even after confirmation/lock)
- Shows: "Last updated: DD-MM-YYYY HH:MM AM/PM by [Username]"
- Updates timestamp on every save
- For recording modifications after order confirmed

Bottom Button:

- [Save Changes]
-

Record Payment Dialog

Fields:

- Amount Received (inclusive of GST)
- Payment Mode dropdown
 - Cash
 - Card
 - UPI
 - Bank Transfer
 - Cheque
- Transaction Reference (optional)

Tax Calculation (Auto-calculated):

Total Received:	₹X,XXX.XX
Base Amount:	₹X,XXX.XX
GST @ XX%:	₹XXX.XX
└─ CGST (X%):	₹XXX.XX
└─ SGST (X%):	₹XXX.XX

For Non-GST Users:

Amount:	₹X,XXX.XX
GST:	₹0.00
Total:	₹X,XXX.XX

Buttons:

- [Cancel]
 - [Record Payment]
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Create Invoice Flow**Step 1: Preview Dialog Shows:**

- Customer details
- Order number
- All items with amounts
- Subtotal
- CGST, SGST/IGST breakdown
- Grand Total
- Advances to be adjusted
- Balance Due
- Warning: "⚠ Order will be locked after invoice is created. Items cannot be modified."

Buttons:

- [Cancel]
- [Create Invoice]

Conditions to Enable:

- ☒ Order has items
- ☒ Order Status = Confirmed/In Progress/Completed

- ✕ Disabled if: No items, Status = Draft/Cancelled, Invoice already exists

Step 2: After Creation


- Navigate to Invoice Detail Screen
 - Show back link to Order Detail screen
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Status Updates

Three Status Types:

- Order Status (Draft/Confirmed/In Progress/Completed/Cancelled/On Hold)
- Delivery Status (Not Started/In Progress/Ready/Delivered)
- Assigned To (Employee)

UI Pattern:

- Badge display with  icon
- Tap badge → Opens bottom sheet with dropdown options
- Select → Auto-saves and updates




Located In: Overview Tab, in Customer & Status card

Order Locking Behavior

Trigger: When invoice is created for order

What Gets Locked:


- ✕ Cannot add/edit/delete items

-  Cannot edit order dates
-  Cannot change assigned employee
-  Cannot edit order notes

What Remains Enabled:

- ☒ Can add/edit change requests
- ☒ Can record advance payments
- ☒ Can record invoice payments
- ☒ Can view all details

Visual Indicators:

-  icon in header
- Locked banner message
- Disabled/hidden edit buttons

Print Options

Access: Top-right : menu

Two Print Formats:

1. **Print Order Detail** (Office Copy)
 - Full order details
 - Customer information
 - All items with prices
 - Financial summary (order total, advances, balance)
 - Payment history

- QR Code
- Notes (order notes + change requests)
- **Audience:** Office/Owner use

2. **Print Workshop Copy** (Production Copy)

- Customer name, phone
 - Order number, dates
 - Items list (NO prices)
 - Measurements/specifications
 - Special instructions
 - QR Code (for tracking)
 - **Hidden:** All financial information (prices, payments, totals)
 - **Audience:** Workshop tailors/workers
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Top Menu (:) Actions

- Print Order Detail
 - Print Workshop Copy
 - Duplicate Order
 - Cancel Order
 - Delete Order (if no invoice)
-

Context-Aware Bottom Buttons

Overview Tab: [Edit Order Details] [Create Invoice]

Items Tab: [+ Add Item]

Payments Tab: [+ Record Payment]

Notes Tab: [Save Changes]

Buttons change based on active tab for better UX.

Edit Capabilities Summary

Field/Action	Draft	Confirmed	In Progress	Completed	Locked (Invoice Created)
Order Date	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Expected Delivery	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Assigned To	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Order Notes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Change Requests	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Add/Edit/Delete Items	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Record Payments	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Update Status	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Required API Endpoints

Order Management

```
GET    /api/orders/{id}/  
PATCH /api/orders/{id}/  
DELETE /api/orders/{id}/  
POST   /api/orders/{id}/duplicate/
```

Order Items

```
GET    /api/orders/{id}/items/  
POST   /api/orders/{id}/items/  
PATCH /api/orders/{id}/items/{item_id}/  
DELETE /api/orders/{id}/items/{item_id}/
```

Reference Photos

```
GET    /api/orders/{id}/reference-photos/  
POST   /api/orders/{id}/reference-photos/  
DELETE /api/orders/{id}/reference-photos/{photo_id}/
```

Payments

```
GET    /api/orders/{id}/receipt-vouchers/  
POST   /api/orders/{id}/receipt-vouchers/  
POST   /api/orders/{id}/calculate-advance-tax/  
      Input: {amount: decimal}  
      Output: {base_amount, tax_percent, cgst, sgst, igst, total_amount}
```


Invoice

GET /api/orders/{id}/invoice/

POST /api/orders/{id}/create-invoice/

Returns: Invoice preview data

POST /api/orders/{id}/confirm-invoice/

Creates actual invoice, locks order

Status Updates

PATCH /api/orders/{id}/update-status/

Input: {order_status: string} or {delivery_status: string}

PATCH /api/orders/{id}/assign-employee/

Input: {assigned_to: employee_id}

Print

GET /api/orders/{id}/print-detail/

Returns: PDF or formatted data for office print

GET /api/orders/{id}/print-workshop/

Returns: PDF or formatted data for workshop (no prices)

Database Status

- ☒ All models created
- ☒ Migrations applied
- ☒ Admin interfaces ready
- ☒ GST compliance fixed

- ☒ Inventory integrated into Item model
 - ☒ Weighted average GST calculation for advances
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Files to Use

1. `orders/models.py` - `orders_models_final.py`
 2. `orders/admin.py` - `orders_admin_final.py`
 3. `invoicing/models.py` - `invoicing_models_fixed.py`
 4. `financials/models.py` - `financials_models_fixed.py`
 5. `financials/admin.py` - `financials_admin_fixed.py`
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Next Steps

Backend Development:

1. ☒ Core models complete
2. ☐ Add new API endpoints:
 - Calculate advance tax with weighted average
 - Invoice preview
 - Print order detail / workshop copy
 - Status update endpoints
3. ☐ Add order locking logic to order item endpoints
4. ☐ Implement print PDF generation


Flutter Development:

1. Build Order Detail Screen with tab navigation
 2. Implement Overview Tab (customer, status, financial, photos, QR)
 3. Implement Items Tab (table with : menu actions)
 4. Implement Payments Tab (all payments combined list)
 5. Implement Notes Tab (order notes + change requests)
 6. Build Record Payment dialog with GST calculation
 7. Build Create Invoice preview dialog
 8. Implement status update bottom sheets
 9. Build print functionality (office + workshop formats)
 10. Add order locking UI behavior
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Key Flutter Packages Needed

- `flutter_bloc` or `provider` - State management
 - `dio` - API calls
 - `image_picker` - Reference photos
 - `qr_flutter` - QR code display
 - `pdf` - Print PDF generation
 - `printing` - Print functionality
 - `cached_network_image` - Photo display
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Backend Team: Phase 1 Complete  | Phase 2 In Progress 

Flutter Team: Ready to start Order Detail Screen 

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Updated By: Lokesh + Claude