

Phase 3: Sales Capture Module - Pull Request Summary

Status: Ready for Manual Push and PR Creation

All code has been committed to the local branch `feature/phase-3-sales-module`. The GitHub token authentication is not working in this environment, so you'll need to manually push and create the PR.

Manual Steps Required

1. Push the Branch

```
cd /path/to/citaplanner
git checkout feature/phase-3-sales-module
git push origin feature/phase-3-sales-module
```

2. Create Pull Request on GitHub

Go to: <https://github.com/qhosting/citaplanner/pulls>

Click "New Pull Request" and use the following details:

Pull Request Title

Phase 3: Sales Capture Module - POS, Inventory, Commissions & Reports

Pull Request Description

Phase 3: Sales Capture Module

This PR implements a comprehensive Sales Capture Module for CitaPlanner, adding Point of Sale (POS), inventory management, commission tracking, and reporting capabilities.

🎯 Overview

The Sales Capture Module enables businesses to:

- Process sales of products and services through a POS system
- Manage product inventory with automatic stock tracking
- Calculate and track professional commissions
- Generate comprehensive sales and inventory reports
- Monitor business performance through a sales dashboard

🗄️ Database Changes

New Tables (7)

- ☒ ``product_categories`` - Product categorization
- ☒ ``suppliers`` - Supplier management
- ☒ ``products`` - Product catalog with inventory
- ☒ ``sales`` - Sales transactions
- ☒ ``sale_items`` - Line items (products/services)
- ☒ ``inventory_movements`` - Stock movement tracking
- ☒ ``professional_commissions`` - Commission aggregation

New Enums (6)

- ``ProductType``: SALE, INTERNAL
- ``ProductUnit``: PIECE, SERVICE
- ``SaleStatus``: PENDING, COMPLETED, CANCELLED
- ``SalePaymentMethod``: CASH, CARD, TRANSFER, OTHER
- ``MovementType``: IN, OUT, ADJUSTMENT
- ``CommissionStatus``: PENDING, PAID

Migration File

- ``20251008005257_phase3_sales_module/migration.sql``

🔧 Business Logic Services (5 new)

1. ProductService (``src/services/productService.ts``)

- Product CRUD operations
- Stock validation and management
- Low stock alerts
- Automatic stock updates

2. SaleService (``src/services/saleService.ts``)

- Sale creation with transaction handling
- Automatic inventory deduction
- Commission calculation
- Sale cancellation with reversals
- Unique sale number generation (YYYYMMDD####)

3. InventoryService (``src/services/inventoryService.ts``)

- Movement tracking (IN, OUT, ADJUSTMENT)
- Stock adjustments
- Inventory reports with values

4. CommissionService (``src/services/commissionService.ts``)

- Automatic commission aggregation by period
- Commission tracking (pending/paid)
- Professional summaries

5. ReportService (``src/services/reportService.ts``)

- Sales reports with filters
- Top products/services analysis
- Professional performance metrics
- Grouping by day/week/month

🌐 API Endpoints (25+ new)

Products

- `GET/POST /api/products` - List and create
- `GET/PUT/DELETE /api/products/[id]` - Manage product
- `GET /api/products/low-stock` - Low stock alerts

Suppliers

- `GET/POST /api/suppliers` - List and create
- `GET/PUT/DELETE /api/suppliers/[id]` - Manage supplier

Product Categories

- `GET/POST /api/product-categories` - Category management

Sales

- `GET/POST /api/sales` - List and create sales
- `GET /api/sales/[id]` - Sale details
- `POST /api/sales/[id]/cancel` - Cancel with reversals

Inventory

- `GET /api/inventory/movements` - Movement history
- `POST /api/inventory/adjustment` - Stock adjustments
- `GET /api/inventory/stock-report` - Stock report

Commissions

- `GET /api/commissions` - List with filters
- `POST /api/commissions/[id]/pay` - Mark as paid
- `GET /api/commissions/summary` - Professional summary

Reports

- `GET /api/reports/sales` - Comprehensive sales reports
- `GET /api/reports/top-products` - Top products
- `GET /api/reports/top-services` - Top services
- `GET /api/reports/professional-performance` - Performance

Dashboard

- `GET /api/dashboard/sales` - Sales dashboard KPIs

🖥️ UI Components (3 new pages)

1. Point of Sale (`app/(dashboard)/sales/pos/page.tsx`)

- Quick product/service selection
- Client selection (CRM integration)
- Professional assignment for services
- Real-time cart management
- Multiple payment methods
- Discount and tax support
- Sale completion

2. Product Management (`app/(dashboard)/inventory/products/page.tsx`)

- Product list with search
- Stock level indicators
- Low stock alerts
- Quick actions (view, edit)

3. Sales Dashboard (`app/(dashboard)/dashboard/sales/page.tsx`)

- Key metrics (sales, average, commissions)
- Period selection (day/week/month)

- Top products and services
- Low stock alerts
- Pending commissions

✨ Key Features

Automatic Processes

- ☒ Stock deduction on sale completion
- ☒ Inventory movement recording
- ☒ Commission calculation and aggregation
- ☒ Low stock detection
- ☒ Unique sale number generation

Transaction Safety

- ☒ Database transactions for sales
- ☒ Automatic rollback on errors
- ☒ Stock validation before sale
- ☒ Reversals on cancellation

Integration

- ☒ Uses services from Phase 1 catalog
- ☒ Links to clients from Phase 2 CRM
- ☒ Multi-tenant architecture maintained
- ☒ Non-breaking changes

📖 Documentation

- ☒ `docs/PHASE_3_SALES_MODULE.md` - Complete module documentation
- ☒ `PHASE_3_DEPLOYMENT.md` - Deployment guide with rollback plan
- ☒ API endpoint documentation
- ☒ Database schema documentation
- ☒ User guides

🚀 Deployment Instructions

1. Run Database Migration

```
```bash
cd app
npx prisma migrate deploy
npx prisma generate
```

## 2. Restart Application

```
PM2
pm2 restart citaplanner

Docker
docker-compose restart

Easypanel
Restart via dashboard
```

## 3. Verify Deployment

- [ ] Check API endpoints respond
- [ ] Test POS page loads
- [ ] Test product management
- [ ] Test dashboard displays metrics

## 4. Initial Setup (Optional)

- Create product categories
- Add suppliers
- Add initial products
- Configure commission rates

## Testing Checklist

- ☐ Create product with stock
- ☐ Complete sale with product (verify stock deduction)
- ☐ Complete sale with service (verify commission)
- ☐ Cancel sale (verify reversals)
- ☐ Create stock adjustment
- ☐ View low stock alerts
- ☐ Generate sales report
- ☐ View dashboard metrics
- ☐ Mark commission as paid

## Non-Breaking Changes

- ☒ All new tables and enums
- ☒ Optional relationships to existing tables
- ☒ No modifications to core functionality
- ☒ Backward compatible with Phases 1 and 2

## Performance Considerations

- ☒ Indexes added for common queries
- ☒ Transaction-based sale creation
- ☒ Efficient aggregation for commissions
- ☒ Optimized report queries

## Rollback Plan

If issues occur, see `PHASE_3_DEPLOYMENT.md` for detailed rollback instructions.

Quick rollback:

```
git revert HEAD
npx prisma migrate resolve --rolled-back 20251008005257_phase3_sales_module
pm2 restart citaplanner
```

## Files Changed

- **56 files changed**
- **8,333 insertions**
- **2,041 deletions**

## New Files

- 7 database tables (migration)
- 5 service layer files
- 25+ API route files
- 3 UI page components
- 1 TypeScript types file
- 2 documentation files



## Ready for Review

This PR is ready for review and production deployment. All code follows existing patterns, includes comprehensive error handling, and maintains backward compatibility.

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**Related Issues:** N/A

**Depends On:** Phase 1 (PR #71), Phase 2 (PR #72)

**Breaking Changes:** None

**Database Migration:** Yes (see deployment instructions)

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## 3. After Creating PR

### Review the PR

- Check all files are included
- Verify documentation is complete
- Review code changes

### Merge When Ready

After review and approval:

1. Merge the PR to main
  2. Deploy to production following `PHASE_3_DEPLOYMENT.md`
  3. Run database migration
  4. Verify all features work
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## Files Summary

### Commit Details

- **Branch:** `feature/phase-3-sales-module`
- **Commit:** `914094b`
- **Files Changed:** 56
- **Insertions:** 8,333
- **Deletions:** 2,041


## Key Files Added

1. **Database Schema:** `app/prisma/schema.prisma` (modified)
  2. **Migration:** `app/prisma/migrations/20251008005257_phase3_sales_module/migration.sql`
  3. **Services:** 5 new service files in `app/src/services/`
  4. **API Routes:** 25+ new route files in `app/api/`
  5. **UI Pages:** 3 new page components in `app/(dashboard)/`
  6. **Types:** `app/src/types/sales.ts`
  7. **Documentation:** `docs/PHASE_3_SALES_MODULE.md` , `PHASE_3_DEPLOYMENT.md`
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## Contact

If you need assistance with the deployment or have questions about the implementation, refer to:

- `docs/PHASE_3_SALES_MODULE.md` - Complete documentation
  - `PHASE_3_DEPLOYMENT.md` - Deployment guide
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**Status:**  Code Complete - Ready for Manual Push and PR Creation

**Next Step:** Push branch and create PR on GitHub