# KCT Menswear Ecosystem - Complete Business Management Platform

## 🏢 Overview

A comprehensive business management platform for KCT Menswear, featuring modular applications for different business functions - from inventory management to wedding coordination.

## 📱 Applications

### 1. Admin Hub (apps/admin-hub)

**Primary Business Dashboard** - Complete business overview and analytics - User management and permissions - System configuration and settings - Integration hub for all other applications

**Deploy to:** admin.kctmenswear.com

### 2. Inventory Manager (apps/inventory-manager)

**Advanced Inventory Control System** - Size-specific inventory tracking (suits, shirts, accessories) - Real-time stock updates and alerts - Bulk inventory operations - Export and reporting capabilities

**Deploy to:** inventory.kctmenswear.com

### 3. Wedding Portal (apps/wedding-portal)

**Wedding Management Platform** - Wedding timeline and milestone tracking - Couple communication center - Outfit coordination and planning - Wedding party management

**Deploy to:** wedding.kctmenswear.com

### 4. Groomsmen Portal (apps/groomsmen-portal)

**Groomsmen-Specific Interface** - Individual groomsmen dashboards - Measurement submission system - Outfit selection and approvals - Timeline and communication tools

**Deploy to:** groomsmen.kctmenswear.com

### 5. Order Management (apps/order-management)

**Order Processing Dashboard** - Order lifecycle management - Payment processing integration - Shipping and fulfillment tracking - Customer communication

**Deploy to:** orders.kctmenswear.com

### 6. User Profiles (apps/user-profiles)

**Customer Profile Management** - Enhanced customer profiles - Measurement history and tracking - Preference management - Order history and analytics

**Deploy to:** profiles.kctmenswear.com

## 🚀 Quick Start

### Prerequisites

* Node.js 18+
* npm or pnpm
* Supabase account
* Vercel account (for deployment)

### Development Setup

# Clone the repository  
git clone https://github.com/IbrahimAyad/max-out-admin.git  
cd max-out-admin  
  
# Install dependencies for all apps  
npm run install:all  
  
# Start development server for specific app  
npm run dev:admin # Admin Hub  
npm run dev:inventory # Inventory Manager  
npm run dev:wedding # Wedding Portal  
npm run dev:groomsmen # Groomsmen Portal  
npm run dev:orders # Order Management  
npm run dev:profiles # User Profiles

### Production Build

# Build all applications  
npm run build:all  
  
# Build specific application  
npm run build:admin  
npm run build:inventory  
# etc.

## 🏗️ Architecture

### Tech Stack

* **Frontend:** React 18 + TypeScript + Vite
* **Backend:** Supabase (Database, Auth, Storage, Edge Functions)
* **Styling:** Tailwind CSS + shadcn/ui components
* **State Management:** React Query + Zustand
* **Deployment:** Vercel with custom subdomains

### Monorepo Structure

kct-ecosystem/  
├── apps/  
│ ├── admin-hub/ # Main business dashboard  
│ ├── inventory-manager/ # Inventory management  
│ ├── wedding-portal/ # Wedding management  
│ ├── groomsmen-portal/ # Groomsmen interface  
│ ├── order-management/ # Order processing  
│ └── user-profiles/ # Customer profiles  
├── shared/  
│ ├── components/ # Shared React components  
│ ├── utils/ # Shared utilities  
│ ├── types/ # TypeScript types  
│ ├── hooks/ # Custom React hooks  
│ └── constants/ # App constants  
├── docs/ # Documentation  
└── deployment/ # Deployment configs

## 🌐 Deployment

### Vercel Setup

Each application deploys to its own subdomain:

1. **admin.kctmenswear.com** - Admin Hub
2. **inventory.kctmenswear.com** - Inventory Manager
3. **wedding.kctmenswear.com** - Wedding Portal
4. **groomsmen.kctmenswear.com** - Groomsmen Portal
5. **orders.kctmenswear.com** - Order Management
6. **profiles.kctmenswear.com** - User Profiles

### Environment Variables

Each app requires:

VITE\_SUPABASE\_URL=your\_supabase\_url  
VITE\_SUPABASE\_ANON\_KEY=your\_supabase\_anon\_key

## 📊 Database Schema

### Shared Tables

* users - User accounts and authentication
* profiles - Extended user profile information
* products - Product catalog
* product\_variants - Size/color variations
* orders - Order management
* weddings - Wedding information
* wedding\_parties - Wedding party members

## 🔧 Development Workflow

### Adding New Features

1. Identify which app the feature belongs to
2. Create feature branch: feature/app-name/feature-description
3. Develop in the appropriate app directory
4. Test locally using dev scripts
5. Create pull request for review

### Deploying Updates

1. Build the specific app: npm run build:appname
2. Push changes to main branch
3. Vercel automatically deploys to respective subdomain
4. Verify deployment on live URL

## 📚 Documentation

* [Admin Hub Documentation](./docs/admin-hub.md)
* [Inventory Management Guide](./docs/inventory-manager.md)
* [Wedding Portal Manual](./docs/wedding-portal.md)
* [Deployment Guide](./docs/deployment.md)
* [API Documentation](./docs/api.md)

## 🤝 Contributing

1. Fork the repository
2. Create your feature branch
3. Commit your changes
4. Push to the branch
5. Create a Pull Request

## 📞 Support

For technical support or feature requests, please contact the development team.

## 📄 License

MIT License - see LICENSE file for details.

**Built with ❤️ by MiniMax Agent for KCT Menswear**