

## Comprehensive UI Generation Prompt for Nexus Industrial Dashboard

🎨 Project Context for AI UI Generators (v0.dev, Lovable, Bolt.new, etc.)

### PROMPT 1: Landing Page (Marketing Site)

Create a modern, professional landing page for "Nexus Industrial" - an AI-powered industrial spare parts marketplace for the MENA region.

#### DESIGN REQUIREMENTS:

- Style: Modern SaaS landing page with industrial/technical aesthetic
- Color Scheme:
  - \* Primary: Deep Blue (#0066CC)
  - \* Secondary: Orange (#FF6B35)
  - \* Accent: Teal (#00B4D8)
  - \* Background: White (#FFFFFF) with Light Gray sections (#F8F9FA)
  - \* Text: Dark Gray (#2D3748)
- Typography:
  - \* Headings: Poppins (Bold, 600-700 weight)
  - \* Body: Inter (Regular, 400-500 weight)
  - \* Arabic Support: IBM Plex Sans Arabic
- Responsive: Mobile-first, works on 320px to 4K screens

#### SECTIONS TO INCLUDE:

##### 1. HERO SECTION:

- Full viewport height with gradient background (blue to teal)
- Headline: "Find Any Industrial Part in Seconds" (Large, bold, white text)
- Subheadline: "AI-powered multimodal search for 100,000+ spare parts from ABB, Siemens, Schneider Electric, and more" (Medium, white text, 70% opacity)
- Search bar: Large input with placeholder "Search by part number, description, or upload image..."
- CTA buttons:
  - \* "Start Searching" (Primary - Orange, large)
  - \* "Watch Demo" (Secondary - White outline)
- Hero image/illustration: Abstract 3D industrial components floating (gears, circuits, motors) with subtle animation

##### 2. FEATURES SECTION:

- Title: "How Nexus Industrial Works"
- 3-column grid with icon cards:
  - Card 1: "Multimodal Search"
    - Icon: Camera + Microphone + Text (combined)
    - Text: "Upload a photo of worn parts, speak in Arabic, or type descriptions. Our AI understands all formats."
  - Card 2: "Automated RFQ"
    - Icon: Email with checkmark

- Text: "Get quotes from 5+ verified vendors automatically. Compare prices, lead times, and reliability scores instantly."

#### Card 3: "Smart Catalog"

- Icon: Database with sparkles
- Text: "Access 100,000+ parts from global brands. Find obsolete part replacements with AI-powered recommendations."

### 3. STATS SECTION:

- Dark background (#1A202C)
- 4 animated counter cards in a row:
  - \* "100,000+ Parts" (Large number with pulsing animation)
  - \* "5 Major Brands" (ABB, Siemens, Schneider, SICK, Murrelektronik logos)
  - \* "< 2 Second Search" (Clock icon)
  - \* "Arabic + English" (Bilingual flags icon)

### 4. DEMO SECTION:

- Title: "See It In Action"
- Split screen (50/50):
  - \* Left: Mockup of dashboard interface (show image upload in progress)
  - \* Right: Step-by-step animation:
    1. Upload worn motor bearing photo
    2. AI identifies: "SKF 6205-2RS"
    3. Shows 5 vendor quotes with prices
    4. User selects best option
- Add subtle parallax scroll effect

### 5. PRICING SECTION:

- Title: "Simple, Transparent Pricing"
- 3 pricing cards (side by side):

#### FREE TIER:

- Price: \$0/month
- Features:
  - \* 10 searches/day
  - \* Basic AI identification
  - \* Manual RFQ sending
  - \* Email support
- Button: "Get Started Free"

#### PROFESSIONAL:

- Price: \$49/month
- Badge: "Most Popular" (orange)
- Features:
  - \* Unlimited searches
  - \* Priority AI processing
  - \* Automated RFQ to 10 vendors
  - \* Live chat support

- \* Machine fleet management
- Button: "Start 14-Day Trial" (Orange, glowing)

#### ENTERPRISE:

- Price: "Custom"
- Features:
  - \* Everything in Pro
  - \* ERP integration
  - \* Dedicated account manager
  - \* Custom AI training
  - \* SLA guarantee
- Button: "Contact Sales"

#### 6. TRUST SECTION:

- Title: "Trusted by Leading Manufacturers"
- Logo carousel (grayscale logos with color on hover):
  - \* Show 8-10 industrial company logos scrolling infinitely
  - \* Add subtle fade-in/fade-out animation

#### 7. CTA SECTION:

- Full-width gradient background (orange to pink)
- Large heading: "Ready to Eliminate Downtime?"
- Subtext: "Join 500+ factories already using Nexus Industrial"
- Large button: "Create Free Account" (White with shadow)
- Below button: "No credit card required • 5-minute setup"

#### 8. FOOTER:

- Dark background (#2D3748)
- 4 columns:
  - \* Column 1: Logo + tagline
  - \* Column 2: "Product" (Features, Pricing, Demo)
  - \* Column 3: "Company" (About, Blog, Careers)
  - \* Column 4: "Support" (Help Center, Contact, API Docs)
- Bottom row: Copyright + Social media icons + Language switcher (EN/AR)

#### INTERACTIONS & ANIMATIONS:

- Smooth scroll behavior
- Fade-in animations on scroll (use Intersection Observer)
- Hover effects on all buttons (scale 1.05, shadow increase)
- Parallax effect on hero section
- Number counters animate when visible
- Floating animation on hero illustration elements
- Glassmorphism effect on feature cards (subtle backdrop blur)

#### TECHNICAL REQUIREMENTS:

- Framework: React + Next.js 14 (App Router)
- Styling: Tailwind CSS
- Icons: Lucide React

- Animations: Framer Motion
- Fully responsive breakpoints: 320px, 640px, 768px, 1024px, 1536px
- Dark mode toggle in header (sun/moon icon)
- Accessibility: ARIA labels, keyboard navigation, focus states
- Performance: Lazy load images, optimize fonts, < 3s load time

#### ADDITIONAL NOTES:

- Add subtle grain texture overlay on gradient sections
- Use soft shadows (not harsh borders)
- Add micro-interactions (button ripples, card lifts on hover)
- Ensure high contrast for WCAG AA compliance
- Add loading skeleton states for dynamic content

#### PROMPT 2: Main Dashboard (User Interface)

Create a comprehensive industrial CRM dashboard for "Nexus Industrial" with a modern, data-rich interface.

#### DESIGN SYSTEM:

- Layout: Sidebar navigation (240px fixed) + Main content area
- Color Palette:
  - \* Background: #F8FAFC (light mode) / #0F172A (dark mode)
  - \* Sidebar: #FFFFFF (light) / #1E293B (dark)
  - \* Primary Action: #0066CC
  - \* Success: #10B981
  - \* Warning: #F59E0B
  - \* Danger: #EF4444
  - \* Text Primary: #1E293B / #F1F5F9
  - \* Text Secondary: #64748B / #94A3B8

#### LAYOUT STRUCTURE:

##### 1. SIDEBAR (Left, Fixed, 240px):

- Logo at top (Nexus Industrial icon + text)
- User profile section below logo:
  - \* Avatar (circle, 40px)
  - \* Name + Company (truncate if long)
  - \* Role badge (e.g., "Admin")

##### Navigation Menu:

- Dashboard (Home icon)
- Search (Magnifying glass icon)
  - \* Sub-menu: Text / Image / Voice
- Fleet Management (Grid icon)
- Inquiries/RFQ (MessageSquare icon)
  - \* Badge showing active count (orange)
- Quotes (FileText icon)
- History (Clock icon)
- Settings (Cog icon)

Bottom of sidebar:

- Language switcher: EN/AR toggle (Flag icons)
- Theme toggle: Light/Dark (Sun/Moon icons)
- Help button (Question mark icon)

2. HEADER (Top, Full width, 64px):

- Breadcrumb navigation (left side)
- Search bar (center, 400px width):
  - \* Placeholder: "Quick search parts..."
  - \* Keyboard shortcut hint: "⌘K"
- Right side:
  - \* Notification bell (with unread count badge)
  - \* User dropdown menu

3. MAIN DASHBOARD CONTENT (Bento Grid Layout):

ROW 1 - KPI CARDS (4 cards, equal width):

Card 1: "Active Inquiries"

- Large number: "12" (bold, 48px)
- Subtitle: "3 urgent" (red badge)
- Mini chart: Sparkline showing trend
- Icon: MessageSquare (blue)

Card 2: "Quotes Received"

- Number: "24"
- Change indicator: "+8 this week" (green, up arrow)
- Icon: FileText (teal)

Card 3: "Avg Response Time"

- Number: "18h"
- Target: "Target: 24h" (progress bar at 75%)
- Icon: Clock (orange)

Card 4: "Total Machines"

- Number: "45"
- Status: "3 need maintenance" (yellow warning)
- Icon: Grid (purple)

ROW 2 - SPLIT LAYOUT (60% / 40%):

LEFT: "Recent Inquiries" Table

- Columns: Part Image | Part Number | Status | Vendors | Last Update | Actions
- 5 rows visible
- Status badges:
  - \* Draft (gray)
  - \* Sent (blue)

- \* Quoted (green)
- \* Closed (gray)
- Actions: View details (eye icon) | Download PDF (download icon)
- Pagination at bottom

RIGHT: "Quote Comparison" Widget

- Title: "Best Quotes for RFQ #12345"
- 3 vendor cards (stacked):

Card format:

- Vendor name + reliability stars (5-star rating)
- Price: Large, bold (e.g., "\$245.00")
- Lead time: "14 days" (with truck icon)
- Badge: "Best Value" (green) on cheapest
- Button: "Accept Quote" (orange)

ROW 3 - FULL WIDTH SECTIONS (Side by side, 50/50):

LEFT: "Recent Searches"

- List view (5 items):
  - \* Thumbnail image of searched part
  - \* Part number + description
  - \* Search type icon (camera/text/mic)
  - \* Timestamp
  - \* Action: "Search Again" link

RIGHT: "Maintenance Alerts"

- Warning cards (3 items):
  - \* Machine name: "Extruder Line #4"
  - \* Part: "Motor Bearing SKF 6205"
  - \* Alert: "Due for replacement in 7 days" (orange warning icon)
  - \* Button: "Order Replacement" (orange)

INTERACTIONS:

- Sidebar:
  - \* Hover effect: Background color change + left border accent
  - \* Active state: Bold text + blue left border
  - \* Collapsible on mobile (hamburger menu)
- KPI Cards:
  - \* Hover: Lift effect (translateY -4px) + shadow increase
  - \* Click: Navigate to detailed view
- Table:
  - \* Sortable columns (click header to sort)
  - \* Row hover: Light background change
  - \* Expandable rows: Click to show more details

- Notifications:
  - \* Animated badge pulse on new notification
  - \* Dropdown panel: Shows last 5 notifications
  - \* Real-time updates (WebSocket simulation)
- Search bar:
  - \* Focus: Border color change to blue
  - \* Keyboard shortcut: CMD+K opens spotlight search modal

#### RESPONSIVE BEHAVIOR:

- Desktop (1024px+): Full bento grid layout
- Tablet (768px-1023px):
  - \* Sidebar collapses to icons only (hover to expand)
  - \* KPI cards stack 2x2
  - \* Split sections become full width (stack vertically)
- Mobile (320px-767px):
  - \* Sidebar becomes bottom navigation bar
  - \* All cards full width
  - \* Table becomes card list view

#### COMPONENT REQUIREMENTS:

- Use Radix UI primitives (Dialog, Dropdown, Tabs)
- shadcn/ui components (Button, Card, Table, Badge)
- Lucide React icons
- Recharts for data visualization
- Framer Motion for animations
- TanStack Table for advanced table features

#### DATA VISUALIZATION:

- Add mini charts (Sparklines) in KPI cards
- Use progress bars for percentage metrics
- Color-coded status indicators throughout
- Skeleton loaders for async data

#### ACCESSIBILITY:

- ARIA labels on all interactive elements
- Keyboard navigation (Tab, Arrow keys, Enter)
- Focus visible states (blue outline)
- Screen reader announcements for dynamic updates
- High contrast mode support

#### PERFORMANCE:

- Virtual scrolling for large tables
- Lazy load images with blur placeholder
- Debounced search input
- Optimistic UI updates (show action immediately, sync in background)

Create this as a fully functional React component with TypeScript, Tailwind CSS, and all interactions working. Include sample data for demonstration.

#### PROMPT 3: Multimodal Search Interface

Create an advanced, user-friendly multimodal search interface for industrial spare parts with 3 search modes: Text, Image, and Voice.

#### LAYOUT:

- Centered container (max-width: 1200px)
- Tabs at top to switch between search modes
- Large search area below tabs
- Results grid below search area

#### TAB NAVIGATION:

- 3 tabs side by side (equal width):
  - \* "Text Search" (AlignLeft icon)
  - \* "Image Search" (Camera icon)
  - \* "Voice Search" (Mic icon)
- Active tab: Blue underline + blue text
- Inactive tabs: Gray text, hover to show background

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#### MODE 1: TEXT SEARCH

##### SEARCH INPUT:

- Large input field (height: 64px):
  - \* Placeholder: "Describe the part you need (e.g., '24V proximity sensor IP67 rated')"
  - \* Search icon on left
  - \* Clear button (X) on right (appears when typing)
  - \* Character counter: "0/500" (bottom right)
- Below input, advanced filters (collapsible):
  - \* "Show Filters" button (ChevronDown icon)
  - \* When expanded, show:
    - Brand filter: Multi-select dropdown (ABB, Siemens, Schneider, SICK, Murrelektronik)
    - Category: Dropdown (Motors, Sensors, PLCs, Circuit Breakers, etc.)
    - Price range: Dual slider (\$0 - \$10,000)
    - Availability: Checkboxes (In Stock, 2 Weeks, 4 Weeks)
    - "Apply Filters" button (blue) + "Reset" link
- Search button (large, orange):
  - \* Text: "Search"
  - \* Icon: MagnifyingGlass
  - \* Full width on mobile, fixed width (200px) on desktop
  - \* Loading state: Show spinner + "Searching..."

#### FEATURES:

- Auto-suggest dropdown as user types (show 5 recent searches)
- Language detection badge (shows "EN" or "AR" with flag)
- Voice input button inside text field (allows speech-to-text)

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## MODE 2: IMAGE SEARCH

### UPLOAD AREA:

- Large drag-and-drop zone (400px height):
  - \* Dashed border (blue)
  - \* Upload icon (large, centered)
  - \* Text: "Drag & drop part image here"
  - \* Subtitle: "or click to browse"
  - \* File type hint: "Supports: JPG, PNG, HEIC (Max 10MB)"
- Alternative input options (below main zone):
  - \* "Take Photo" button (Camera icon) - Opens device camera
  - \* "Paste from Clipboard" button (Clipboard icon)

### UPLOAD STATES:

#### 1. Idle State:

- Dashed border, light blue background
- Pulsing animation on icon

#### 2. Drag Over State:

- Solid blue border
- Blue background (semi-transparent)
- Icon changes to UploadCloud

#### 3. Uploading State:

- Show image preview (thumbnail)
- Progress bar below (0-100%)
- Cancel button

#### 4. Analyzing State:

- Image preview with overlay
- Animated scanning line (moves top to bottom)
- Text: "Analyzing image... Identifying part number, manufacturer, and specifications"
- Spinner animation

#### 5. Results State:

- Image preview (left, 200px)
- Extracted information (right):
  - \* "Detected: Siemens 6ES7 214-1AG40-0XB0"
  - \* Confidence: Progress bar (e.g., 95%)
  - \* Extracted text (OCR): Show any visible part numbers

- \* "View Full Results" button

#### IMAGE ENHANCEMENT OPTIONS:

- Crop tool (click to activate)
- Brightness/Contrast sliders
- "Enhance Nameplate" button (AI-powered clarity boost)

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#### MODE 3: VOICE SEARCH

##### RECORDING INTERFACE:

- Large circular record button (120px diameter):
  - \* Color: Red when recording, Blue when idle
  - \* Icon: Microphone (white)
  - \* Pulsing animation when recording
- Recording states:
  1. Ready State:
    - Text: "Tap to start recording"
    - Subtitle: "Describe the part in Arabic or English"
    - Language selector: EN/AR toggle below
  2. Recording State:
    - Button turns red
    - Waveform animation (audio visualizer)
    - Timer: "00:15" (counts up)
    - Text: "Recording... Tap to stop"
    - Visual feedback: Pulsing red glow
  3. Processing State:
    - Show audio waveform (static)
    - Text: "Transcribing audio..."
    - Spinner animation
  4. Transcribed State:
    - Show transcription in text box:
      - \* Editable textarea
      - \* Detected language badge (AR/EN)
      - \* Confidence: "95% accurate"
    - Buttons:
      - \* "Search" (orange, primary)
      - \* "Record Again" (gray, secondary)

##### AUDIO PLAYER (after recording):

- Play/Pause button
- Waveform visualization

- Duration: "0:15"
- Volume control
- Delete recording button (trash icon)

#### VOICE TIPS (Collapsible section):

- "Tips for better results:"
- \* Speak clearly and slowly
- \* Mention: Part number, brand, specifications
- \* Example: "أحتاج حساس ضغط من سيمنز، نطاق قياس من صفر إلى عشرة بار"
- \* Example: "I need a Siemens pressure sensor, range zero to ten bar"

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#### SEARCH RESULTS (Common to all modes):

##### RESULTS HEADER:

- Total found: "Found 247 results in 0.8 seconds"
- Sort dropdown: "Sort by: Relevance" (options: Price Low-High, Price High-Low, Lead Time, Brand)
- View toggle: Grid / List (icons)
- Export button: "Export Results" (CSV/PDF)

##### RESULTS GRID (3 columns on desktop, 1 on mobile):

###### Part Card:

- Thumbnail image (square, 200x200px)
- Part number (bold, truncate if long)
- Manufacturer logo (top right badge)
- Description (2 lines, ellipsis)
- Price range: "\$245 - \$320" (from 5 vendors)
- Availability badge: "In Stock" (green) / "2 Weeks" (yellow)
- Match score: Progress bar (e.g., "95% match")
- Actions:
  - \* "Request Quote" button (orange)
  - \* Heart icon (save to favorites)
  - \* Compare checkbox

###### CARD HOVER EFFECT:

- Lift animation (translateY -8px)
- Shadow increase
- "Quick View" button fades in (overlays image)

#### QUICK VIEW MODAL (on Quick View click):

- Large image (left, 50%)
- Details (right, 50%):
  - \* Full part number
  - \* Complete description
  - \* Technical specifications table

- \* Datasheet PDF link (download icon)
- \* Related parts carousel (below)
- \* "Request Quote" button (sticky at bottom)

#### EMPTY STATE (no results):

- Large icon: SearchX
- Heading: "No parts found"
- Suggestions:
  - \* Try different keywords
  - \* Remove some filters
  - \* Upload a clearer image
- Button: "Contact Support" (opens chat)

#### LOADING STATE:

- Skeleton cards (shimmer animation)
- 9 skeleton cards (3x3 grid)

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#### ADDITIONAL FEATURES:

##### SAVE SEARCH:

- Button: "Save This Search" (bookmark icon)
- Opens modal: "Name your search" + email alert checkbox

##### COMPARE FEATURE:

- Floating button (bottom right): "Compare (3)" (shows count of selected parts)
- Clicks opens side panel with comparison table

#### RECENT SEARCHES SIDEBAR (left side, collapsible):

- Shows last 10 searches
- Each item:
  - \* Search query/image thumbnail
  - \* Timestamp
  - \* Number of results
  - \* Click to re-run

#### HELP TOOLTIPS:

- Question mark icons throughout
- Hover shows helpful hints
- E.g., on image upload: "For best results, ensure part number is visible and image is clear"

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#### TECHNICAL REQUIREMENTS:

- React + TypeScript
- Tailwind CSS + shadcn/ui
- Image upload: react-dropzone

- Voice recording: react-media-recorder
- Audio visualizer: wavesurfer.js
- Smooth animations: framer-motion
- Lazy load images: react-lazy-load-image-component
- Infinite scroll on results (load more on scroll)
- Debounced search (300ms delay)
- Optimistic UI (show results immediately, refine with real data)

#### ACCESSIBILITY:

- Keyboard shortcuts:
  - \* "/" to focus search
  - \* "Escape" to clear/close
  - \* Arrow keys to navigate results
- Screen reader announcements
- Focus management in modals
- High contrast mode support

Build this as a complete, production-ready component with all three search modes fully functional.

#### PROMPT 4: RFQ Management Kanban Board

Create an interactive Kanban board for managing RFQ (Request for Quotation) inquiries with drag-and-drop functionality, inspired by Trello/Linear.

#### LAYOUT:

- Full width, horizontal scrolling on mobile
- 4 columns (equal width, min 300px each)
- Sticky header with filters and actions

#### HEADER SECTION:

- Title: "RFQ Tracking Board" (left)
- Filters row:
  - \* Search: "Filter inquiries..." (200px width)
  - \* Date range picker: "Last 30 days"
  - \* Urgency filter: Dropdown (All, Normal, Urgent, Emergency)
  - \* Status filter: All columns / Show Active Only toggle
- Actions (right):
  - \* "Create RFQ" button (orange, large)
  - \* "Export All" button (secondary)
  - \* View toggle: Kanban / Table (icons)

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#### KANBAN COLUMNS:

##### COLUMN 1: "DRAFT" (Gray header, #94A3B8)

- Card count badge: "(12)"
- "+ New Draft" button at top (dashed border)

- Description: "Inquiries not yet sent to vendors"

COLUMN 2: "SENT" (Blue header, #0066CC)

- Card count: "(8)"
- Status indicator: "Active" (pulsing dot)
- Description: "Awaiting vendor responses"

COLUMN 3: "QUOTED" (Green header, #10B981)

- Card count: "(15)"
- "+ New" indicator (shows new quotes received)
- Description: "Quotes received, ready for comparison"

COLUMN 4: "CLOSED" (Gray header, #64748B)

- Card count: "(43)"
- Filter: "Last 7 days" dropdown
- Description: "Completed or cancelled"

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#### RFQ CARD DESIGN:

Card structure (white background, shadow, rounded corners):

##### 1. HEADER:

- Part thumbnail (left, 60x60px, rounded)
- Part info (right of thumbnail):
  - \* Part number (bold, 14px): "SKF 6205-2RS"
  - \* Manufacturer badge: "SKF" (small, gray)
- Urgency badge (top right corner):
  - \* Normal: Gray badge
  - \* Urgent: Orange badge with clock icon
  - \* Emergency: Red badge, pulsing animation

##### 2. BODY:

- Part description (2 lines, truncated): "Deep groove ball bearing, sealed both sides..."
- Metadata row (icons + text, light gray):
  - \* Quantity: Package icon + "50 units"
  - \* Created: Calendar icon + "2 days ago"
  - \* User: User icon + "Ahmed M."

##### 3. VENDORS SECTION (Draft/Sent columns only):

- Small text: "Vendors contacted:"
- Vendor avatars (overlapping circles):
  - \* Show up to 4 avatars
  - \* If more: "+3 more" badge
- Hover tooltip: Shows vendor names

##### 4. QUOTES SECTION (Quoted column only):

- Quote count badge: "5 quotes received"
- Best price highlight: "\$245" (large, green)
- Price range: "\$245 - \$380" (small, gray)
- Status indicators (dots):
  - \* 3 green dots (quotes received)
  - \* 2 gray dots (pending)

## 5. FOOTER:

- Tags (if any): Small chips (e.g., "High Priority", "Local Vendor")
- Actions dropdown (3 dots menu):
  - \* View Details
  - \* Edit
  - \* Duplicate
  - \* Delete
  - \* Move to...

## 6. CLOSED CARDS (Different design):

- Semi-transparent overlay
- Outcome badge:
  - \* "Purchased - \$245" (green)
  - \* "Cancelled" (red)
  - \* "Expired" (gray)
- Vendor selected: "Ordered from: Bearing Depot"

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## CARD INTERACTIONS:

### HOVER STATE:

- Lift effect (translateY -4px)
- Shadow deepens
- Border color changes to blue
- Quick action buttons fade in:
  - \* Eye icon (Quick view)
  - \* Edit icon
  - \* Message icon (Contact vendors)

### DRAG STATE:

- Card scales up (1.05x)
- Slight rotation (3deg)
- Shadow becomes dramatic
- Ghost placeholder in original position (dashed outline)

### DROP ZONES:

- Column highlights when card dragged over
- Show drop indicator line (blue, 3px)
- Invalid drop zones: Red tint + crossed circle cursor

#### **CLICK ACTION:**

- Opens side panel (slides from right):
  - \* Full RFQ details
  - \* Quote comparison table
  - \* Vendor conversation thread
  - \* Action buttons at bottom

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#### **COLUMN FEATURES:**

##### **COLUMN HEADER:**

- Drag handle (6 dots) - columns are reorderable
- Settings dropdown:
  - \* Rename column
  - \* Set WIP limit (work in progress)
  - \* Hide/Show column
  - \* Automation rules (auto-move based on conditions)

##### **COLUMN FOOTER:**

- "Load More" button (if > 20 cards)
- Total value indicator (Quoted column): "Total: \$15,430"

##### **WIP LIMIT INDICATOR:**

- If enabled, show progress: "8/10 cards"
- Warning color if limit exceeded

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#### **AUTOMATION INDICATORS:**

##### **SMART BADGES:**

- "Auto-sent" (blue robot icon) - Auto-sent to vendors
- "Follow-up due" (orange clock) - Reminder sent
- "Price drop" (green arrow down) - Better quote received
- "Response overdue" (red warning) - No reply in 48h

##### **STATUS CHANGES:**

- When card moves between columns:
  - \* Confetti animation (Quoted → Closed with purchase)
  - \* Subtle flash effect
  - \* Toast notification: "RFQ moved to Quoted"

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#### **BULK ACTIONS:**

#### **MULTI-SELECT MODE:**

- Checkbox appears on cards when Ctrl/Cmd held
- Selected cards: Blue outline
- Floating action bar (bottom):
  - \* "Move selected to..."
  - \* "Delete selected"
  - \* "Export selected"
  - \* "Merge inquiries"
  - \* Cancel button

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## ADVANCED FEATURES:

### SEARCH & FILTER:

- Search highlights matching cards (glow effect)
- Filtered cards fade out (reduced opacity)
- "Clear filters" button appears

### TIMELINE VIEW (Toggle option):

- Shows cards on horizontal timeline
- Grouped by date created
- Milestones marked (quotes received, decisions made)

### ANALYTICS CARD (Top of board):

- Collapsible overview card:
  - \* "Average response time: 18h"
  - \* "Quotes pending: 8"
  - \* "This month: 15 RFQs closed, \$45K value"
  - \* Mini chart showing trend

### COLLABORATION:

- User avatars on cards (who's viewing)
- "Someone is editing" indicator (pulsing)
- Comments count badge (speech bubble icon)

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## RESPONSIVE BEHAVIOR:

### DESKTOP (1024px+):

- All 4 columns visible
- Horizontal scroll if needed

### TABLET (768px-1023px):

- 2 columns visible, horizontal scroll
- Column width: 320px

### MOBILE (< 768px):

- 1 column visible, swipe to navigate
- Simplified card design (no thumbnails)
- Floating action button for "Create RFQ"
- Bottom sheet for card details (instead of side panel)

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#### EMPTY STATES:

##### EMPTY COLUMN:

- Illustration: Empty box with magnifying glass
- Text: "No inquiries in this stage"
- CTA: "Create your first RFQ" (in Draft column)
- Help link: "Learn about RFQ process"

##### EMPTY BOARD (First-time user):

- Large centered illustration
- Welcome message: "Welcome to RFQ Management!"
- Tutorial cards (3 steps):
  1. "Create an inquiry"
  2. "Send to vendors"
  3. "Compare quotes"
- "Start Tutorial" button (launches guided tour)

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#### TECHNICAL REQUIREMENTS:

- React + TypeScript
- `@dnd-kit/core` for drag-and-drop
- `@dnd-kit/sortable` for reordering
- Framer Motion for animations
- Zustand for state management
- TanStack Query for data fetching
- react-window for virtual scrolling (if 100+ cards)
- Socket.io for real-time updates (multi-user)

#### ACCESSIBILITY:

- Keyboard navigation:
  - \* Tab to navigate cards
  - \* Arrow keys to move between columns
  - \* Space to pick up/drop card
  - \* Escape to cancel drag
- Screen reader announcements for card moves
- Focus indicators (blue outline)
- Reduced motion mode (disable animations)

#### PERFORMANCE:

- Virtualize columns if > 50 cards

- Lazy load card images
- Debounced search (300ms)
- Optimistic updates (move immediately, sync with server)
- Offline support (queue moves, sync when online)

Build this as a fully functional component with realistic data and all interactions working smoothly.

#### PROMPT 5: Quote Comparison Table

Create a sophisticated quote comparison interface for industrial spare parts with advanced filtering, sorting, and recommendation features.

#### LAYOUT:

- Full page width, max-width: 1400px
- Header section with context
- Main comparison table
- Side panel with vendor details

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#### HEADER SECTION:

##### TOP BAR:

- Breadcrumb: "RFQ #12345 > Quote Comparison"
- Status badge: "5 quotes received" (green)
- Last updated: "Updated 2 hours ago" (with refresh icon button)

##### PART INFO CARD:

- Left side: Part image (150x150px)
- Center: Details
  - \* Part number: "SKF 6205-2RS" (large, bold)
  - \* Description: "Deep groove ball bearing, sealed both sides, 25x52x15mm"
  - \* Manufacturer: SKF logo badge
  - \* Quantity needed: "50 units"
  - \* Urgency: "Normal" badge (or Urgent/Emergency)
  - \* Delivery to: "Cairo, Egypt" (with location pin icon)
- Right side: Quick stats
  - \* Best price: "\$245" (large, green, with "arrow down" icon)
  - \* Price range: "\$245 - \$380"
  - \* Fastest delivery: "7 days"
  - \* Average response time: "Continue4:08 PM16 hours"

#### COMPARISON TABLE:

##### TABLE HEADER (Sticky):

Columns (with sort icons):

Vendor (sortable by name/rating)  
Price/Unit (sortable)  
Total Cost (sortable) [Price × Quantity]  
Shipping (sortable)  
Landed Cost (sortable) [Total + Shipping + Customs]  
Lead Time (sortable)  
Availability (filterable)  
Quote Valid Until (sortable)  
Vendor Score (sortable)  
Actions

Column visibility dropdown: "Columns" (eye icon)

Checkboxes to show/hide columns

Quick filters (right side):

"In Stock Only" toggle  
"Local Vendors" toggle  
"< \$300" price filter  
"< 14 days" delivery filter

TABLE ROWS (Vendor Quotes):

ROW 1 (Best Value - Highlighted):

Background: Light green tint (#F0FDF4)  
Badge: "BEST VALUE" (green, top left of row)

Columns:

VENDOR:

Company name: "Bearing Depot" (bold)  
Logo (40x40px circle)  
Location: "Cairo, Egypt" (flag + text)  
Rating: 5 stars (★★★★★) with "(127 reviews)"  
Verified badge: Blue checkmark icon

PRICE/UNIT:

Large: "\$4.90"  
Currency: "USD"

Savings badge: "Save \$85" (if not cheapest)

#### TOTAL COST:

"\$245.00"

Calculation shown on hover: "50 × \$4.90"

#### SHIPPING:

"\$25"

Shipping method: "Express" badge (orange)

Estimated days: "3-5 days" (small text)

#### LANDED COST:

"\$295" (bold)

Breakdown on hover:

Product: \$245

Shipping: \$25

Customs (est.): \$25

Total: \$295

#### LEAD TIME:

"7 days" (with calendar icon)

Visual: Progress bar (7/30 days, green)

Badge: "FASTEST" (if shortest time)

#### AVAILABILITY:

"In Stock" (green badge)

Or: "2 Weeks" (yellow), "4 Weeks" (orange)

#### QUOTE VALID UNTIL:

"Jan 30, 2025"

Days remaining: "(12 days left)" (green)

Warning color if < 3 days

## VENDOR SCORE:

Composite score: "9.2/10" (large)

Breakdown (hover tooltip):

Response time: 9.5/10

Price competitiveness: 9.0/10

Delivery reliability: 9.0/10

Quality: 9.5/10

## ACTIONS:

"Accept" button (green, large)

Dropdown menu (3 dots):

View vendor profile

Contact vendor

Request better price

Report issue

## ROW 2 (Fastest Delivery):

Badge: "FASTEST DELIVERY" (blue)

Highlighted column: Lead Time (blue tint)

## ROW 3 (Most Reliable):

Badge: "MOST RELIABLE" (purple)

Highlighted column: Vendor Score (purple tint)

## ROW 4 (Normal):

No special highlighting

## ROW 5 (Expensive/Slow - Dimmed):

Reduced opacity (0.7)

Strike-through on price (if significantly higher)

## TABLE FEATURES:

### SORTING:

Click column header to sort

Visual indicator: Arrow up/down

Multi-column sort: Hold Shift + click

### FILTERING:

Quick filter chips above table:

"In Stock" (removable chip)

"Local Only" (removable chip)

"< \$300" (removable chip)

Advanced filters button: Opens modal with:

Price range slider

Lead time range

Vendor rating minimum

Location multi-select

Certification filters (ISO, etc.)

## COLUMN CUSTOMIZATION:

Drag column headers to reorder

Resize columns (drag edge)

Pin columns (freeze left or right)

## BULK ACTIONS:

Select multiple quotes (checkboxes)

Floating action bar:

"Compare Selected" (opens side-by-side view)

"Request Group Discount"

"Export Selected"

## RECOMMENDATION ENGINE:

AI RECOMMENDATIONS CARD (Above table):

Title: "AI Recommendations"

Icon: Sparkles (animated)

Three recommendation chips:

"Best for your needs: Bearing Depot"

Reason: "Balances price (\$245), fast delivery (7 days), and high reliability (9.2/10)"

Click to highlight that row

"Alternative: Local Motors"

Reason: "Same-day pickup available, save on shipping"

"Consider: Global Parts Co."

Reason: "10% discount for orders > 100 units"

#### VENDOR DETAILS SIDE PANEL:

Triggered by: Clicking vendor name or "View Profile"

PANEL CONTENT (Slides from right):

#### VENDOR HEADER:

Cover image (abstract, company colors)

Logo (large, 80x80px)

Company name + verified badge

Rating: 5 stars + review count

"Message Vendor" button (primary)

"Add to Favorites" heart icon

#### OVERVIEW SECTION:

Location: "Cairo, Egypt" (map pin)

Years in business: "15 years"

Specialization: "Bearings, Motors, Drives"

Languages: "English, Arabic" (flags)

Response time: "< 4 hours"

#### PERFORMANCE METRICS:

Mini charts (sparklines):

"On-time delivery: 95%" (green)  
"Quote accuracy: 92%" (yellow)  
"Customer satisfaction: 4.8/5"

## CERTIFICATIONS:

Badge icons:

ISO 9001  
Authorized distributor (SKF logo)  
Local business verified

## PAST ORDERS (Your history):

"You've ordered 3 times"  
Average delivery: "9 days"  
Total spent: "\$1,245"  
Last order: "Dec 15, 2024"

## REVIEWS PREVIEW:

Show 2 most recent reviews  
Star rating + comment excerpt  
"See all reviews" link

## CONTACT INFO:

Phone (click to call)  
Email (click to email)  
WhatsApp (click to open)  
Address (click to open map)

## EXPORT FUNCTIONALITY:

"Export" button (top right):

Dropdown options:

- Download PDF (formatted report)
- Download Excel (raw data)
- Email to team
- Share link (generate public link)

#### PDF EXPORT FORMAT:

Header: Company logo + "Quote Comparison Report"  
RFQ details section  
Comparison table (all columns)  
Recommendation section  
Vendor details (summary)  
Footer: Generated date, page numbers

#### EMPTY/ERROR STATES:

##### NO QUOTES RECEIVED:

Illustration: Empty mailbox  
Text: "No quotes received yet"  
Subtitle: "Vendors typically respond within 24-48 hours"  
Actions:

"Send Reminder" button  
"Contact Support" link

#### SINGLE QUOTE:

Show quote card (not table)  
Message: "Only one quote received"  
Suggestion: "Wait for more quotes or accept this one"  
"Send to More Vendors" button

#### EXPIRED QUOTES:

Warning banner: "2 quotes expired"  
Action: "Request Quote Renewal"

#### RESPONSIVE BEHAVIOR:

##### DESKTOP (1024px+):

Full table visible, horizontal scroll if needed  
Side panel overlays content (40% width)

TABLET (768px-1023px):

Simplified table (fewer columns visible by default)  
Swipe to see more columns  
Side panel full screen (modal)

MOBILE (< 768px):

Card view instead of table:

Each quote is a card  
Swipe between cards (carousel)  
Key info only: Vendor, Price, Lead Time  
"View Details" expands card

Comparison not available (show message)

## INTERACTIONS & ANIMATIONS:

### HOVER EFFECTS:

Row hover: Light background, border appears  
Cell hover: Tooltip with additional context  
Vendor logo hover: Scale up slightly

### CLICK EFFECTS:

Accept button: Confetti animation on click  
Sort: Smooth transition of rows  
Filter: Fade in/out filtered rows

### REAL-TIME UPDATES:

New quote received: Toast notification + row fades in  
Price change: Cell flashes yellow briefly  
Quote expiring soon: Pulsing warning badge

## TECHNICAL REQUIREMENTS:

React + TypeScript  
TanStack Table (React Table v8)  
Recharts for visualizations  
Framer Motion for animations

React PDF for export  
Zustand for state management  
React Query for data fetching

#### ACCESSIBILITY:

Keyboard navigation (Tab, arrows)  
Screen reader friendly (aria-labels)  
High contrast mode  
Focus indicators  
Sort announcements

#### PERFORMANCE:

Virtual scrolling for 100+ rows  
Memoized calculations  
Lazy load vendor details  
Optimistic updates

Build this as a complete, production-ready component with realistic data and all features fully functional.

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#### ## 🎯 Usage Instructions for AI UI Generators:

\*\*For v0.dev / Lovable / Bolt.new:\*\*

1. Copy the relevant prompt (1-5) based on what you need
2. Paste directly into the AI generator
3. Wait for generation (~30-60 seconds)
4. Review and iterate with follow-up prompts like:
  - "Make the colors more vibrant"
  - "Add dark mode support"
  - "Make it responsive for mobile"
  - "Add loading states"

\*\*For Claude / ChatGPT (Code generation):\*\*

1. Use these prompts to generate React components
2. Ask for specific files: "Generate the ImageUpload component"
3. Request TypeScript types: "Add TypeScript interfaces"
4. Ask for tests: "Generate Jest tests for this component"

\*\*For Figma AI Plugins:\*\*

1. Use prompts 1-2 for design mockups
2. Export to code using Figma plugins
3. Refine with technical prompts 3-5