**AI Prompt for Generating the Application:**

**"Develop a React 18 application using TypeScript that provides an advanced CPQ (Configure, Price, Quote) document editor with a feature-rich text and table customization module. The application should include the following functionalities:**

* **Editor Module:**
  + Top navigation bar with a template name field (editable with save/delete options), auto-save icon, and three navigation buttons for 'Create Template,' 'Design Templates,' and 'Add e-Signature.'
  + 'Save as Next' button for manual template updates and a 'Publish' button with an optional e-signature prompt.
  + Bottom toolbar with undo, redo, and 'Insert Field' dropdown, switching dynamically to include font and paragraph styling options when the editor is active.
* **Page Management:**
  + Multi-page document support with add/remove pages functionality.
  + Each page has a header, footer, and body section, with settings for page size (A4/Letter) and orientation (Portrait/Landscape).
  + Page actions include adding a header/footer, duplicating, deleting, and adjusting horizontal/vertical padding.
* **Rich Text Editing (RTE) & Mentions Component:**
  + Dynamic mention-based component (triggered by '/') supporting text formatting, image insertion, tables, and column layouts.
  + RTE-based inline editing with toolbars for font selection, styles (bold, italic, underline, etc.), text alignment, lists, and link/image popups.
  + Right-side style panel appearing on selection, allowing text background and stroke color customization.
* **Tables & Context Menu Customization:**
  + Table creation via a suggestion popup for row/column selection, supporting inline RTE-based cell editing.
  + Custom row and column context menus for inserting, deleting, duplicating, clearing content, and applying styles (color, borders, padding).
  + Right-side table settings panel for advanced customization, including border styles, stroke adjustments, spacing, and alternative row styling.
* **Price Table Management:**
  + Auto-generated tables based on API data with configurable headers, row styles, and background colors.
  + Features for column visibility toggling, header renaming, and column reordering via drag-and-drop.
  + Configurable decimal precision, table border visibility, and row/column formatting options.
* **Drag & Drop & Reordering Features:**
  + Rows, columns, and blocks can be repositioned via drag-and-drop for enhanced document structuring.
  + Context menu for row block operations such as delete, duplicate, cut, copy, paste (above/below), and structured replacement (paragraph → heading, table, image, etc.).
* **Keyboard Shortcuts & Undo/Redo:**
  + Full keyboard event support for undo/redo (Ctrl+Z, Ctrl+Y).
  + Toolbar accessibility for quick formatting and layout modifications."\*\*

**Professional Correction of the Document:**

**Bold CPQ Application – Editor Module Overview**

1. **Navigation Bar:**
   * **Left Section:** Editable template name field with save/delete options.
   * **Middle Section:** Three navigation buttons – 'Create Template,' 'Design Templates,' and 'Add e-Signature.'
   * **Right Section:** 'Save as Next' button for manual updates and 'Publish' button with an optional e-signature prompt.
2. **Bottom Toolbar:**
   * Default tools: Undo, Redo, 'Insert Field' dropdown.
   * When the editor is active, additional tools include font selection, text styles (bold, italic, underline, etc.), text alignment, lists, link/image popups, and divider options.
3. **Page Structure:**
   * Multi-page support with add/remove pages functionality.
   * Each page consists of a header, footer, and body section.
   * Page settings allow adjustments for orientation (Portrait/Landscape), size (A4/Letter), and padding.
4. **Editor Panel & Mentions Component:**
   * Inline text editing with an RTE supporting mentions ('/') for inserting headings, images, tables, and columns.
   * RTE toolbars provide formatting tools for font size, styles, alignment, lists, and color customization.
   * Style panel opens upon text selection, allowing background and stroke color adjustments.
5. **Table Features:**
   * Table insertion via a suggestion popup for row/column selection.
   * Context menu for row/column actions: Insert, Delete, Duplicate, Clear Content, Color Formatting.
   * Right-side panel for table customization: Borders, Stroke Adjustments, Spacing, and Row Styling.
6. **Price Table Customization:**
   * API-driven table generation with configurable headers, row styles, and background colors.
   * Column management via drag-and-drop, header renaming, and visibility toggling.
   * Settings for decimal precision, table border visibility, and text styling.
7. **Drag & Drop & Reordering:**
   * Drag-and-drop functionality for repositioning rows, columns, and blocks.
   * Context menu for row-level actions like delete, duplicate, cut, copy, paste, and structured replacements.
8. **Keyboard Shortcuts & Undo/Redo:**
   * Full support for undo/redo (Ctrl+Z, Ctrl+Y).
   * Toolbar accessibility for efficient text and layout modifications.

**For Claude:  
  
  
Develop a sophisticated CPQ (Configure, Price, Quote) Template Editor application with rich document editing capabilities using React and Syncfusion EJ2 components. This application should function as a full-featured document editor with the following detailed specifications:**

**## Navigation and Layout Structure**

**### Top Navigation Bar**

**Implement a professional top navigation bar with three distinct sections:**

**1. \*\*Left Side\*\*:**

**- Template name display with edit, delete, and save functionality**

**- Name editing should support inline editing with validation**

**2. \*\*Middle Section\*\*:**

**- Three tab-style navigation buttons for:**

**- Create Template**

**- Design Templates**

**- Add E-Signature**

**3. \*\*Right Side\*\*:**

**- "Save as Next" button that manually updates templates**

**- "Publish" button with conditional behavior:**

**- If e-signature not added, show a confirmation dialog**

**- After publishing, mark template as ready for customer sending**

**4. \*\*Auto-save Functionality\*\*:**

**- Include a visual auto-save indicator that activates when content changes**

**- Display a success dialog with "template updated successfully" message after saving**

**### Bottom Toolbar**

**Implement a context-aware bottom toolbar with dynamic content:**

**1. \*\*Default Toolbar Items\*\* (when editor not active):**

**- Undo button with keyboard shortcut (Ctrl+Z) support**

**- Redo button with keyboard shortcut (Ctrl+Y) support**

**- Insert Field dropdown**

**- Page Orientation dropdown (Portrait/Landscape options)**

**- Page Size dropdown (A4/Letter options)**

**2. \*\*Active Editor Toolbar\*\* (when editor is active):**

**- Font Name dropdown with multiple options**

**- Font Size dropdown with range of sizes**

**- Font Family dropdown with typography options**

**- Text formatting: Bold, Italic, Underline, Strikethrough buttons**

**- Text styling: Font color picker, Background color picker**

**- Alignment dropdown (left, center, right, justify)**

**- List formatting: Numbered list, Bullet list**

**- Indentation: Decrease indent, Increase indent**

**- Interactive popups: Link insertion, Image insertion**

**- Divider dropdown for horizontal rule insertion**

**## Page Management System**

**Create a multi-page document management system with:**

**1. \*\*Page Structure\*\*:**

**- Each page should have distinct Header, Body, and Footer sections**

**- Support for adding multiple pages with "+" icons at top and bottom**

**2. \*\*Page Settings\*\*:**

**- Top-right page controls:**

**- Add header button (highlights header section)**

**- Duplicate page button**

**- Delete page button**

**- Page settings button with padding controls (vertical/horizontal)**

**- Bottom-right controls:**

**- Add footer button (highlights footer section)**

**3. \*\*Hierarchical Layout Structure\*\*:**

**- Implement three-level div structure: row-block > column-block > row-item-block**

**- Integrate Syncfusion EJ2 Rich Text Editor within row-item-blocks**

**- Support for dynamic content addition via "+" icon**

**## Rich Text Editing Experience**

**Implement a sophisticated text editing environment using Syncfusion EJ2 Rich Text Editor:**

**1. \*\*Content Addition\*\*:**

**- Add button that triggers Syncfusion EJ2 Mention component**

**- Support for "/" keyboard shortcut to activate component**

**- Filter options in mention dropdown**

**2. \*\*Content Types Support\*\*:**

**- Headings (H1, H2, H3)**

**- Paragraphs**

**- Images with replacement and deletion options**

**- Tables with cell editing capabilities**

**- Multi-column layouts (2, 3, 4 columns)**

**- Fields insertion**

**3. \*\*Smart Behavior\*\*:**

**- Convert RTE to normal div on blur event, preserving styling**

**- Automatic addition of new RTE after completing one**

**- Toolbar items dynamically positioned in navigation bar for usability**

**- Right side panel that opens when RTE is active for additional styling options**

**4. \*\*Style Management\*\*:**

**- Option to apply stroke color to entire RTE**

**- Background color control for RTE**

**- Style retention using EJ2 sanitize helper**

**- Comprehensive formatting controls via toolbar**

**## Image Management**

**Implement robust image handling:**

**1. \*\*Image Insertion\*\*:**

**- Support via mention component**

**- Direct insertion from toolbar**

**- Image popup with selection interface**

**2. \*\*Image Controls\*\*:**

**- Replacement option that reopens image dialog**

**- Delete option to remove images**

**- Focus handling for text editing within image containers**

**## Advanced Table Management**

**Create a sophisticated table management system:**

**1. \*\*Table Creation\*\*:**

**- Table suggestion popup for selecting rows/columns**

**- HTML table generation with read-only divs (using EJ2 sanitizer)**

**- Cell-click event to convert divs to RTE for editing**

**2. \*\*Context Menus\*\*:**

**- Row context menu with:**

**- Row color (EJ2 color picker integration)**

**- Font color for entire row**

**- Add row functionality**

**- Delete row option**

**- Duplicate row capability**

**- Column context menu with:**

**- Insert column left (with highlighting)**

**- Insert column right (with highlighting)**

**- Duplicate column with content**

**- Clear column contents**

**- Delete column functionality**

**3. \*\*Table Styling Panel\*\*:**

**- Border dropdown with various border types**

**- Border color picker**

**- Stroke dropdown with different stroke types**

**- Stroke size input component**

**- Vertical and horizontal spacing controls**

**- Alternating row background and color settings**

**## Price Table Component**

**Implement a specialized CPQ price table with:**

**1. \*\*Price Table Rendering\*\*:**

**- Table generated from API data**

**- No RTE within price tables**

**- Custom styling separate from standard tables**

**2. \*\*Price Table Settings Panel\*\* with multiple sections:**

**- \*\*Configuration Section\*\*:**

**- Decimal dropdown (2,3,4 options)**

**- Vertical/horizontal padding controls**

**- Toggle sliders for: Header, Table Border, Discount, Tax, Total**

**- \*\*Header Font Style Section\*\*:**

**- Font selection**

**- Header text color**

**- Font size**

**- Text style options**

**- Line spacing**

**- \*\*Regular Row Font Style\*\*:**

**- Font selection**

**- Text color**

**- Font size**

**- Text style options**

**- Line spacing**

**- \*\*Alternate Row Font Style\*\*:**

**- Same options as regular rows but for alternating rows**

**- \*\*Background Color Section\*\*:**

**- Header background**

**- Row background**

**- Alternate row background**

**- \*\*Columns Management\*\*:**

**- Draggable column reordering**

**- Header name editing**

**- Visibility toggles via sliders**

**## Multi-Column Layout Support**

**Implement column-based layouts:**

**1. \*\*Column Options\*\*:**

**- 2-column layout**

**- 3-column layout**

**- 4-column layout**

**2. \*\*Column Behavior\*\*:**

**- Automatic width distribution (total width ÷ column count)**

**- RTE rendering within each column**

**- Same text editing functionality as standard RTEs**

**## Content Management Features**

**Implement robust drag-and-drop and context menu functionality:**

**1. \*\*Row Drag & Drop\*\*:**

**- Icon on left side of row blocks**

**- Support for horizontal and vertical movement**

**- Drag between rowblocks and into adjacent rowitems**

**2. \*\*Context Menu Integration\*\*:**

**- Right-click menu with options:**

**- Delete**

**- Duplicate**

**- Cut, Copy, Paste**

**- Paste above/below**

**- Replace with different components (headings, tables, images, price tables)**

**3. \*\*History Management\*\*:**

**- Undo/Redo functionality via toolbar icons**

**- Keyboard shortcut support (Ctrl+Z, Ctrl+Y)**

**## Technical Requirements**

**1. \*\*Framework and Libraries\*\*:**

**- React for UI components**

**- Syncfusion EJ2 React components including:**

**- Rich Text Editor**

**- Mention component**

**- Context Menu**

**- Color Picker**

**- Slider components**

**- Sanitize helper**

**2. \*\*Integration Points\*\*:**

**- API integration for price table data**

**- Document processing for export/import**

**- Storage system for templates**

**Ensure the application follows modern UI/UX principles with responsive design and accessibility considerations. The interface should be intuitive, with all controls logically grouped and easily discoverable.**