

# Frontend Developer Hiring Assignment

## Kanban Board View - Interactive UI Component Development

### Overview

Welcome to the **Design System Component Library** frontend developer hiring challenge. This assignment evaluates your ability to build **production-grade, complex interactive components** that align with our design system architecture.

You will implement a sophisticated **Kanban Board View** component from scratch using modern web technologies. Your component will be showcased via **Storybook** stories demonstrating all features and interactions.

### Timeline

**Estimated Time:** 8-12 hours

**Submission Deadline:** As specified in your Internshala application

### Submission Method

**Storybook Required:** Your component must be documented and demonstrated through Storybook stories showing all states, interactions, and variants.

### Objective

Build a fully functional **Kanban Board View** - a drag-and-drop task management system.

Your implementation should demonstrate:

- Production-quality code architecture
- Enterprise-grade UI/UX patterns
- Performance optimization techniques
- Accessibility-first approach
- Scalable component design

### Technology Stack

#### Required Technologies

Technology	Purpose	Version
TypeScript	Type-safe development	^5.0.0
React	Component framework	^18.0.0
Tailwind CSS	Utility-first styling	^3.0.0
Vite or Next.js	Build tooling	Latest stable

#### Explicitly Forbidden



- **Component Libraries:** Radix UI, Shadcn, Headless UI, MUI, Ant Design, Chakra UI, Mantine
- **CSS-in-JS:** styled-components, emotion, vanilla-extract, stitches
- **UI Generators:** Lovable, Locofy, TeleportHQ, Uizard, Builder.io
- **Drag Libraries:** react-beautiful-dnd, dnd-kit, react-dnd (see exceptions below)
- **Pre-built Kanban Components:** Any library that provides ready-made kanban boards

## Allowed Utilities

- **date-fns** or **dayjs** (date manipulation only)
- **clsx** or **classnames** (conditional class management)
- **zustand** or **jotai** (lightweight state management)
- **framer-motion** (animations - bonus only)
- **@dnd-kit/core** (low-level drag primitives only, not pre-built components)
- **Storybook** (required for component documentation)

**Important:** If you use `@dnd-kit`, you must implement your own drag logic and visual feedback. Simply wrapping pre-built hooks without custom implementation will be considered non-compliant.

## Storybook Requirements

Your Storybook stories must include:

- **Default** - Basic kanban board with sample data
- **Empty State** - Board with no tasks
- **With Many Tasks** - Board with 20+ tasks to test performance
- **Different Priorities** - Showcase priority levels
- **Interactive Demo** - Fully functional drag-and-drop
- **Mobile View** - Responsive layout demonstration
- **Accessibility** - Keyboard navigation demonstration

## □ Required Project Structure

```
kanban-component/
|
├── README.md                      # Documentation
├── package.json                    # Dependencies
├── tsconfig.json                  # TypeScript config
├── tailwind.config.js              # Tailwind customization
├── .storybook/                     # Storybook configuration
|   ├── main.ts
|   └── preview.ts
|
└── src/
    ├── components/
    |   └── KanbanBoard/
    |       ├── KanbanBoard.tsx      # Main component
    |       ├── KanbanBoard.stories.tsx # Storybook stories
    |       ├── KanbanBoard.types.ts
    |       ├── KanbanColumn.tsx
    |       ├── KanbanCard.tsx
    |       └── TaskModal.tsx
```





```
|   |
|   └── primitives/           # Reusable UI elements
|       ├── Button.tsx
|       ├── Modal.tsx
|       └── Avatar.tsx
|
|   └── hooks/
|       ├── useDragAndDrop.ts
|       └── useKanbanBoard.ts
|
|   └── utils/
|       ├── task.utils.ts
|       └── column.utils.ts
|
└── styles/
    └── globals.css
```

## □ Design Requirements

### Visual Design Principles

Your implementation should follow **modern SaaS product design patterns**:

1. **Clean & Minimal** - Remove visual noise, focus on content
2. **Consistent Spacing** - Use Tailwind's spacing scale (4px base unit)
3. **Clear Hierarchy** - Typography and color establish importance
4. **Subtle Interactions** - Micro-animations provide feedback
5. **Purposeful Color** - Use color to communicate state and action

### Tailwind Configuration

Extend Tailwind with design tokens that align with our system:

```
// tailwind.config.js
module.exports = {
  theme: {
    extend: {
      colors: {
        primary: {
          50: '#f0f9ff',
          100: '#e0f2fe',
          500: '#0ea5e9',
          600: '#0284c7',
          700: '#0369a1',
        },
        neutral: {
          50: '#fafafa',
          100: '#f4f4f5',
          200: '#e4e4e7',
          300: '#d4d4d8',
          700: '#3f3f46',
          900: '#18181b',
        },
      }
    }
}
```

```

},
spacing: {
  18: '4.5rem',
  88: '22rem',
},
borderRadius: {
  'xl': '0.75rem',
},
},
},
}

```

## Responsive Breakpoints

Breakpoint	Width	Target Device	Layout Behavior
sm	640px+	Large mobile	Stack columns, expand cards
md	768px+	Tablet	2-column layouts, side panels
lg	1024px+	Desktop	Full multi-column, split views
xl	1280px+	Large desktop	Max width containers, sidebars

## □ Kanban Board View Detailed Requirements

### Core Features

#### 1. Data Structure

```

interface KanbanTask {
  id: string;
  title: string;
  description?: string;
  status: string; // column identifier
  priority?: 'low' | 'medium' | 'high' | 'urgent';
  assignee?: string;
  tags?: string[];
  createdAt: Date;
  dueDate?: Date;
}

interface KanbanColumn {
  id: string;
  title: string;
  color: string;
  taskIds: string[]; // ordered list of task IDs
  maxTasks?: number; // WIP limit (optional)
}

interface KanbanViewProps {
  columns: KanbanColumn[];
  tasks: Record<string, KanbanTask>;
}

```

```

    onTaskMove: (taskId: string, fromColumn: string, toColumn: string, newIndex: number)
=> void;
    onTaskCreate: (columnId: string, task: KanbanTask) => void;
    onTaskUpdate: (taskId: string, updates: Partial<KanbanTask>) => void;
    onTaskDelete: (taskId: string) => void;
}

```

## 2. Board Layout

- Minimum 3 columns, support up to 6 columns
- Each column has fixed width (280-320px) on desktop
- Horizontal scroll with smooth snap behavior
- Column headers are sticky during vertical scroll
- Empty state message when column has no tasks

## 3. Task Card Requirements

Must display:

- Task title (bold, truncated to 2 lines)
- Priority indicator (colored left border)
- Assignee avatar or initials
- Tag badges (max 3 visible)
- Due date badge (red if overdue)
- Comments/attachments count icons (optional)

```

// Example Task Card
<div className="bg-white border border-neutral-200 rounded-lg p-3 shadow-sm
hover:shadow-md transition-shadow cursor-grab active:cursor-grabbing">
    <div className="flex items-start justify-between mb-2">
        <h4 className="font-medium text-sm text-neutral-900 line-clamp-2">
            {task.title}
        </h4>
        {task.priority && (
            <span className={`text-xs px-2 py-0.5 rounded
${priorityColors[task.priority]}`}>
                {task.priority}
            </span>
        )}
    </div>

    {task.description && (
        <p className="text-xs text-neutral-600 mb-2 line-clamp-2">
            {task.description}
        </p>
    )}

    <div className="flex items-center justify-between">
        <div className="flex gap-1">
            {task.tags?.slice(0, 3).map(tag => (
                <span key={tag} className="text-xs bg-neutral-100 px-2 py-0.5 rounded">
                    {tag}
                </span>
            )))
        </div>
    </div>
</div>

```

```

</div>

{task.assignee && (
  <div className="w-6 h-6 bg-primary-500 rounded-full text-white text-xs flex items-center justify-center">
    {getInitials(task.assignee)}
  </div>
)
</div>

{task.dueDate && (
  <div className={`text-xs mt-2 ${isOverdue(task.dueDate) ? 'text-red-600' : 'text-neutral-500'}`}>
    Due: {formatDate(task.dueDate)}
  </div>
)
</div>

```

#### 4. Drag-and-Drop Interactions

Scenario	Behavior
<b>Start drag</b>	Card lifts with shadow, cursor changes to grab
<b>Dragging</b>	Ghost/placeholder shows drop position
<b>Hover column</b>	Column highlights as valid drop target
<b>Drop in column</b>	Animate card into position, update state
<b>Drop between tasks</b>	Insert at exact position with reordering
<b>Invalid drop</b>	Card animates back to original position
<b>Keyboard drag</b>	Space to pick up, arrows to move, Enter to drop

#### 5. Column Management

- Header shows: Title, task count, and WIP limit indicator
- "Add Task" button at bottom of column
- Column options menu (rename, set WIP limit, delete)
- Collapse/expand column functionality
- Drag column header to reorder columns (bonus)

#### 6. Task Detail Modal

When clicking a task card, open modal with:

- Editable title and description (rich text optional)
- Priority selector
- Status/column dropdown
- Assignee search/select
- Tag management (add/remove)
- Due date picker
- Activity log (bonus - show move history)
- Delete task button

- Comments section (bonus)

## 7. Advanced Features

- Search/Filter:** Filter tasks by assignee, tag, or priority
- Bulk Actions:** Select multiple cards with checkboxes
- Quick Actions:** Hover card to show quick edit, delete, duplicate icons
- Column Limits:** Visual warning when approaching WIP limit

## 8. Responsive Behavior

- Desktop:** Horizontal columns with independent scrolling
  - Tablet:** 2 columns visible, horizontal scroll
  - Mobile:** Vertical stack, swipe between columns, tab navigation
- 

## □ Accessibility Requirements

All implementations **must** meet WCAG 2.1 AA standards:

### Keyboard Navigation

Key	Action
Tab	Move focus between interactive elements
Shift + Tab	Move focus backwards
Enter / Space	Activate focused element or pick up card
Escape	Close modal or cancel action
Arrow Keys	Navigate between cards or columns
Home / End	Jump to first/last card in column

### ARIA Implementation

Required ARIA attributes:

```
// Example Draggable Card
<div
  role="button"
  tabIndex={0}
  aria-label={`${task.title}. Status: ${status}. Priority: ${priority}. Press space to
  grab.`}
  aria-grabbed={isDragging}
  onKeyDown={handleDragKeyboard}
>
  {/* card content */}
</div>

// Example Column
<div
  role="region"
  aria-label={`${column.title} column. ${taskCount} tasks.`}
>
```

```

    /* column content */

```

```
// Example Modal
```

```
<div
  role="dialog"
  aria-modal="true"
  aria-labelledby="modal-title"
  aria-describedby="modal-description"
>
  <h2 id="modal-title">Edit Task</h2>
  <div id="modal-description">Update task details below</div>
  /* modal content */
</div>
```

## Visual Accessibility

- All interactive elements must have `:focus-visible` styles
- Color contrast ratio minimum 4.5:1 for text
- Focus indicators must be clearly visible (not `outline: none` without replacement)
- Text must be resizable up to 200% without loss of functionality

## Performance Requirements

Your implementation will be tested for performance under stress conditions.

### Performance Benchmarks

Metric	Target	Measurement
Initial Render	< 300ms	Time to interactive
Drag Response	< 16ms	Frame time during drag
Search/Filter	< 100ms	Results update latency
Large Dataset	Handle 500+ tasks	No visible lag
Bundle Size	< 200kb (gzipped)	Production build

### Optimization Techniques

#### Required:

1. Use `React.memo()` for expensive components
2. Implement virtualization for long lists (>50 items per column)
3. Debounce search and filter inputs
4. Lazy load modals and detail views
5. Use `useCallback` and `useMemo` appropriately

#### Example Virtualization:

```

// Simplified virtual scrolling for Kanban column
const [visibleRange, setVisibleRange] = useState({ start: 0, end: 20 });

```

```

const handleScroll = (e: React.UIEvent<HTMLDivElement>) => {
  const scrollTop = e.currentTarget.scrollTop;
  const itemHeight = 120; // average card height
  const start = Math.floor(scrollTop / itemHeight);
  const end = start + 20; // visible items + buffer

  setVisibleRange({ start, end });
};

return (
  <div className="overflow-y-auto" onScroll={handleScroll} style={{ height: '70vh' }}>
    <div style={{ height: tasks.length * 120 }}>
      {tasks.slice(visibleRange.start, visibleRange.end).map(task => (
        <TaskCard key={task.id} task={task} />
      ))}
    </div>
  </div>
);

```

## Code Quality Standards

### TypeScript Standards

#### 1. Strict Mode Enabled

```

// tsconfig.json
{
  "compilerOptions": {
    "strict": true,
    "noImplicitAny": true,
    "strictNullChecks": true,
    "noUnusedLocals": true,
    "noUnusedParameters": true
  }
}

```

#### 2. Comprehensive Type Definitions

- No any types (use unknown if needed)
- Interface over type aliases for object shapes
- Proper generic constraints
- Discriminated unions for complex states

#### 3. Example Type Safety

```

// Good ✅
interface TaskFormData {
  title: string;
  description?: string;
  priority: 'low' | 'medium' | 'high' | 'urgent';
  assignee?: string;
  tags: string[];
}

```

```

}

type FormErrors = Partial<Record<keyof TaskFormData, string>>;

// Bad ✗
interface TaskFormData {
  title: any;
  description: any;
  priority: any;
}

```

## Code Organization

### 1. Component Structure

```

// KanbanCard.tsx

import React from 'react';
import { KanbanTask } from '@/types/kanban.types';
import { formatDate, isOverdue } from '@/utils/task.utils';

interface KanbanCardProps {
  task: KanbanTask;
  isDragging: boolean;
  onEdit: (task: KanbanTask) => void;
  onDelete: (taskId: string) => void;
}

export const KanbanCard: React.FC<KanbanCardProps> = ({ task,
  isDragging,
  onEdit,
  onDelete,
}) => {
  // Component logic

  return (
    // JSX
  );
};

```

### 2. Custom Hooks Pattern

```

// useDragAndDrop.ts

import { useState, useCallback } from 'react';

interface DragState {
  isDragging: boolean;
  draggedId: string | null;
  dropTargetId: string | null;
  dragOverIndex: number | null;
}

```

```

export const useDragAndDrop = () => {
  const [state, setState] = useState<DragState>({
    isDragging: false,
    draggedId: null,
    dropTargetId: null,
    dragOverIndex: null,
  });

  const handleDragStart = useCallback((id: string) => {
    setState(prev => ({
      ...prev,
      isDragging: true,
      draggedId: id,
    }));
  }, []);

  const handleDragOver = useCallback((targetId: string, index: number) => {
    setState(prev => ({
      ...prev,
      dropTargetId: targetId,
      dragOverIndex: index,
    }));
  }, []);

  const handleDragEnd = useCallback(() => {
    setState({
      isDragging: false,
      draggedId: null,
      dropTargetId: null,
      dragOverIndex: null,
    });
  }, []);

  return {
    ...state,
    handleDragStart,
    handleDragOver,
    handleDragEnd,
  };
};

```

### 3. Utility Function Pattern

```

// task.utils.ts

/**
 * Checks if a task is overdue
 */
export const isOverdue = (dueDate: Date): boolean => {
  return new Date() > dueDate;
};

```

```

/**
 * Gets initials from a name
 */
export const getInitials = (name: string): string => {
  return name
    .split(' ')
    .map(part => part[0])
    .join('')
    .toUpperCase()
    .slice(0, 2);
};

/**
 * Calculates priority color classes
 */
export const getPriorityColor = (priority: string): string => {
  const colors = {
    low: 'bg-blue-100 text-blue-700 border-l-4 border-blue-500',
    medium: 'bg-yellow-100 text-yellow-700 border-l-4 border-yellow-500',
    high: 'bg-orange-100 text-orange-700 border-l-4 border-orange-500',
    urgent: 'bg-red-100 text-red-700 border-l-4 border-red-500',
  };
  return colors[priority as keyof typeof colors] || colors.medium;
};

/**
 * Reorders tasks after drag and drop
 */
export const reorderTasks = (
  tasks: string[],
  startIndex: number,
  endIndex: number
): string[] => {
  const result = Array.from(tasks);
  const [removed] = result.splice(startIndex, 1);
  result.splice(endIndex, 0, removed);
  return result;
};

/**
 * Moves task between columns
 */
export const moveTaskBetweenColumns = (
  sourceColumn: string[],
  destColumn: string[],
  sourceIndex: number,
  destIndex: number
): { source: string[]; destination: string[] } => {
  const sourceClone = Array.from(sourceColumn);
  const destClone = Array.from(destColumn);
  const [removed] = sourceClone.splice(sourceIndex, 1);

```

```
destClone.splice(destIndex, 0, removed);

return {
  source: sourceClone,
  destination: destClone,
};

};
```

---

## □ Submission Requirements

### 1. Repository Setup

Your GitHub repository must include:

- README.md with complete documentation
- package.json with all dependencies (including Storybook)
- .gitignore (exclude node\_modules, storybook-static)
- Source code in /src following required structure
- Storybook configuration in .storybook/
- Component stories (.stories.tsx files)
- At least 5 meaningful commits showing development progress
- Deployed Storybook (Chromatic/Vercel/Netlify)
- NO node\_modules folder
- NO build artifacts
- NO API keys or secrets

### 2. Storybook Documentation

Your Storybook must include:

#### Required Stories:

1. **Default** - Standard board with 4 columns and sample tasks
2. **Empty** - Empty board state
3. **Large Dataset** - Board with 30+ tasks across columns
4. **Mobile Responsive** - Mobile viewport demonstration
5. **Interactive Playground** - Fully functional with controls

#### Story Controls:

- Toggle dark mode (bonus)
- Adjust column count
- Change task priorities
- Add/remove sample tasks

### 3. README.md Format

```
# Kanban Board Component

## □ Live Storybook
[Your Deployed Storybook URL]

## □ Installation
```
bash
```

```
npm install  
npm run storybook  
\`\\`\\`  
  
## 🚀 Architecture  
[Brief explanation of your approach]
```

```
## 💡 Features  
- [x] Drag-and-drop tasks  
- [x] Task creation/editing  
- [x] Responsive design  
- [x] Keyboard accessibility
```

```
## 📖 Storybook Stories  
- Default board  
- Empty state  
- Large dataset  
- Mobile view  
- Interactive playground
```

```
## 🛠 Technologies  
- React + TypeScript  
- Tailwind CSS  
- Storybook  
- [Other libraries]
```

```
## 📩 Contact  
[Your email]
```

## 4. Git Commit Guidelines

### 4. Git Commit Guidelines

Follow conventional commit format:

```
feat: add drag and drop for kanban cards  
feat: implement task creation modal  
fix: resolve card positioning bug during drag  
style: improve mobile responsiveness for columns  
refactor: extract task modal into separate component  
docs: update README with installation instructions  
perf: implement virtualization for large task lists
```

## 5. Storybook Deployment

**Required:** Deploy your Storybook to one of these platforms:

- **Chromatic** (recommended - free for open source)
- **Vercel**
- **Netlify**
- **GitHub Pages**

Include the deployed Storybook link in your README and submission.

---

## □ Evaluation Rubric

Your submission will be scored across these dimensions:

### 1. Functionality (30 points)

| Criteria                     | Points | Description                                              |
|------------------------------|--------|----------------------------------------------------------|
| Core features work correctly | 15     | All required interactions function without errors        |
| Edge cases handled           | 8      | Validates inputs, handles empty states, prevents crashes |
| Data persistence works       | 7      | State updates correctly, can add/edit/delete/move tasks  |

### 2. Code Quality (25 points)

| Criteria               | Points | Description                                                  |
|------------------------|--------|--------------------------------------------------------------|
| TypeScript usage       | 8      | Proper types, no any, strict mode enabled                    |
| Component architecture | 8      | Clean separation, reusable components, single responsibility |
| Code organization      | 5      | Logical folder structure, proper imports                     |
| Comments & docs        | 4      | Code is self-documenting with strategic comments             |

### 3. UI/UX Design (20 points)

| Criteria             | Points | Description                                     |
|----------------------|--------|-------------------------------------------------|
| Visual polish        | 8      | Professional appearance, consistent styling     |
| Interaction feedback | 6      | Hover states, drag feedback, smooth transitions |
| Responsive design    | 6      | Works seamlessly on mobile, tablet, desktop     |

### 4. Accessibility (10 points)

| Criteria            | Points | Description                                   |
|---------------------|--------|-----------------------------------------------|
| Keyboard navigation | 4      | All features accessible via keyboard          |
| ARIA implementation | 3      | Proper labels, roles, live regions            |
| Focus management    | 3      | Logical focus order, visible focus indicators |

### 5. Performance (10 points)

| Criteria               | Points | Description                                 |
|------------------------|--------|---------------------------------------------|
| Optimized rendering    | 5      | No unnecessary re-renders, uses memoization |
| Handles large datasets | 3      | Virtualization or pagination for 100+ tasks |

|             |   |                                      |
|-------------|---|--------------------------------------|
| Bundle size | 2 | Production build under 200kb gzipped |
|-------------|---|--------------------------------------|

## 6. Documentation (5 points)

| Criteria                       | Points | Description                              |
|--------------------------------|--------|------------------------------------------|
| Storybook stories completeness | 3      | All required stories implemented         |
| README quality                 | 2      | Clear setup and architecture explanation |

### Bonus Points (up to +15)

- Interactive story controls (+3)
- Dark mode implementation (+3)
- Additional stories beyond requirements (+3)
- Accessibility story with keyboard demo (+3)
- Performance optimization documentation (+3)

**Total Possible: 100 points (115 with bonus)**

**Passing Score: 70 points**

---

## □ Disqualification Criteria

Your submission will be **immediately rejected** if any of these violations are found:

### 1. Use of forbidden libraries:

- Component libraries (Radix, Shadcn, MUI, Ant Design, etc.)
- Pre-built kanban/drag-drop components
- CSS-in-JS solutions (styled-components, emotion)

### 2. AI-generated UI:

- Code generated by Lovable, Bolt, v0, Locofy, etc.
- Entire components copy-pasted from ChatGPT/Claude/Copilot without understanding
- (Note: Using AI for debugging or learning is acceptable, but the final code must be your own)

### 3. Plagiarism:

- Code copied from tutorials, Stack Overflow, or GitHub without attribution
- Using paid templates or starter kits

### 4. Non-functional submission:

- Cannot be run locally
- Missing core required features
- Critical bugs that crash the application
- No deployed Storybook link provided
- Storybook doesn't build or has critical errors

### 5. Incomplete submission:

- No README
  - No source code
  - Repository is private and access not granted
- 

## □ Tips for Success

### Before You Start

#### 1. Set up Storybook first:

```
npx storybook@latest init
```

Configure it before building components

#### 2. Study reference implementations:

- Trello, Linear, Asana
- Check their Storybook/design systems if available

#### 3. Plan your stories:

- List all variants you'll need to showcase
- Think about interactive controls

### During Development

#### 1. Build component + story together:

- Create component → Create story → Test → Refine
- Don't wait until the end to add stories

#### 2. Implement features incrementally:

- Days 1-2: Basic layout + Default story
- Days 3-4: Drag-and-drop + Interactive story
- Days 5-6: Task management + Edge case stories
- Days 7-8: Polish, accessibility, deployment

#### 3. Use Storybook for testing:

- Test all edge cases through stories
- Verify responsive behavior in Storybook
- Check accessibility with Storybook a11y addon

### Common Pitfalls to Avoid

- **Not using Storybook properly:** Stories should be interactive and demonstrate all features
  - **Building full app instead of component:** Focus on the reusable component, not a complete application
  - **Ignoring story variants:** Create stories for all important states and edge cases
  - **Poor Storybook organization:** Use clear story names and descriptions
  - **Accessibility as afterthought:** Build it in from the start, showcase it in stories
- 

## □ Learning Resources

## **Storybook**

- [Storybook Documentation](#)
- [Component Story Format](#)
- [Storybook Addons](#)

## **Drag and Drop**

- [MDN - HTML Drag and Drop API](#)
- [@dnd-kit documentation](#) (if using)

## **Accessibility**

- [WCAG 2.1 Guidelines](#)
  - [Storybook Accessibility Addon](#)
- 

## **FAQ**

**Q: Do I need to build a full application or just the component?**

A: Just the component! Build it as a reusable component library item, demonstrated through Storybook.

**Q: Can I use Storybook addons?**

A: Yes! Use addons like `@storybook/addon-a11y`, `@storybook/addon-controls`, etc.

**Q: How many stories do I need?**

A: Minimum 5 required stories, but more is better to showcase all features and states.

**Q: Can I deploy my Storybook to Chromatic?**

A: Yes, Chromatic is the recommended platform for Storybook deployment.

**Q: Should I focus more on the component or the stories?**

A: Both are equally important. A great component with poor documentation fails the assignment.

---

## **Final Checklist Before Submission**

### **Functionality**

- Drag and drop works smoothly
- Task creation/editing functional
- All interactive features work
- No console errors

### **Storybook**

- All 5+ required stories implemented
- Stories are interactive and demonstrate features
- Storybook builds without errors
- Deployed and accessible online

### **Code Quality**

- TypeScript strict mode enabled

- No any types used
- Components properly structured
- Follows project structure requirements

## Accessibility

- Keyboard navigation works
- ARIA labels present
- Focus indicators visible

## Documentation

- README complete with Storybook link
- Clear setup instructions
- Architecture explained

## Repository

- Repository is public
  - 5+ meaningful commits
  - No node\_modules committed
- 

## I Submission Process

### Step 1: Complete Your Component

Ensure all features work and Storybook stories are comprehensive.

### Step 2: Deploy Storybook

Deploy to Chromatic, Vercel, or Netlify and verify all stories work.

### Step 3: Prepare Repository

- Repository name: kanban-component-[yourname]
- Make repository **public**
- Ensure README has deployed Storybook link

### Step 4: Test Locally

```
git clone [your-repo-url]
cd kanban-component-[yourname]
npm install
npm run storybook
```

### Step 5: Submit via Internshala

Submit through Internshala portal:

- GitHub repository link
  - Deployed Storybook link
  - Brief description (2-3 paragraphs) of your implementation approach
-

## Good Luck!

This assignment tests your ability to build production-ready components with excellent documentation. Focus on:

- **Component quality** over feature quantity
- **Storybook documentation** that makes your component easy to understand
- **Clean code** that others can read and maintain

Remember: A well-documented, polished component with great stories beats a feature-complete component with poor documentation.

We're rooting for you! ☺

---

## Appendix A: Sample Data Structure

### Kanban View Sample Data

```
const sampleColumns: KanbanColumn[] = [
  { id: 'todo', title: 'To Do', color: '#6b7280', taskIds: ['task-1', 'task-2'],
    maxTasks: 10 },
  { id: 'in-progress', title: 'In Progress', color: '#3b82f6', taskIds: ['task-3'],
    maxTasks: 5 },
  { id: 'review', title: 'Review', color: '#f59e0b', taskIds: [], maxTasks: 3 },
  { id: 'done', title: 'Done', color: '#10b981', taskIds: ['task-4', 'task-5'] },
];

const sampleTasks: Record<string, KanbanTask> = {
  'task-1': {
    id: 'task-1',
    title: 'Implement drag and drop',
    description: 'Add D&D functionality to kanban cards',
    status: 'todo',
    priority: 'high',
    assignee: 'John Doe',
    tags: ['frontend', 'feature'],
    createdAt: new Date(2024, 0, 10),
    dueDate: new Date(2024, 0, 20),
  },
  'task-2': {
    id: 'task-2',
    title: 'Design task modal',
    description: 'Create modal for editing task details',
    status: 'todo',
    priority: 'medium',
    assignee: 'Jane Smith',
    tags: ['design', 'ui'],
    createdAt: new Date(2024, 0, 11),
    dueDate: new Date(2024, 0, 18),
  },
  'task-3': {
    id: 'task-3',
```

```

    title: 'Setup TypeScript',
    status: 'in-progress',
    priority: 'urgent',
    assignee: 'John Doe',
    tags: ['setup', 'typescript'],
    createdAt: new Date(2024, 0, 9),
  },
  'task-4': {
    id: 'task-4',
    title: 'Create project structure',
    description: 'Setup folder structure and initial files',
    status: 'done',
    priority: 'low',
    assignee: 'Jane Smith',
    tags: ['setup'],
    createdAt: new Date(2024, 0, 8),
    dueDate: new Date(2024, 0, 9),
  },
  'task-5': {
    id: 'task-5',
    title: 'Install dependencies',
    status: 'done',
    priority: 'low',
    assignee: 'John Doe',
    tags: ['setup'],
    createdAt: new Date(2024, 0, 8),
  },
}

```

---

## Appendix B: Tailwind Configuration Template

```

/** @type {import('tailwindcss').Config} */
export default {
  content: [
    "./index.html",
    "./src/**/*.{js,ts,jsx,tsx}",
  ],
  theme: {
    extend: {
      colors: {
        primary: {
          50: '#f0f9ff',
          100: '#e0f2fe',
          200: '#bae6fd',
          300: '#7dd3fc',
          400: '#38bdf8',
          500: '#0ea5e9',
          600: '#0284c7',
          700: '#0369a1',
          800: '#075985',
          900: '#0c4a6e',
        }
      }
    }
  }
}

```

```
},
neutral: {
  50: '#fafafa',
  100: '#f4f4f5',
  200: '#e4e4e7',
  300: '#d4d4d8',
  400: '#a1a1aa',
  500: '#71717a',
  600: '#52525b',
  700: '#3f3f46',
  800: '#27272a',
  900: '#18181b',
},
success: {
  50: '#f0fdf4',
  500: '#10b981',
  700: '#047857',
},
warning: {
  50: '#fffbeb',
  500: '#f59e0b',
  700: '#b45309',
},
error: {
  50: '#fef2f2',
  500: '#ef4444',
  700: '#b91c1c',
},
},
fontFamily: {
  sans: ['Inter', 'system-ui', 'sans-serif'],
  mono: ['Fira Code', 'monospace'],
},
spacing: {
  18: '4.5rem',
  88: '22rem',
  112: '28rem',
  128: '32rem',
},
borderRadius: {
  '4xl': '2rem',
},
boxShadow: {
  'card': '0 1px 3px 0 rgb(0 0 0 / 0.1), 0 1px 2px -1px rgb(0 0 0 / 0.1)',
  'card-hover': '0 10px 15px -3px rgb(0 0 0 / 0.1), 0 4px 6px -4px rgb(0 0 0 / 0.1)',
  'modal': '0 20px 25px -5px rgb(0 0 0 / 0.1), 0 8px 10px -6px rgb(0 0 0 / 0.1)',
},
animation: {
  'fade-in': 'fadeIn 0.2s ease-in-out',
  'slide-up': 'slideUp 0.3s ease-out',
}
```

```
'slide-down': 'slideDown 0.3s ease-out',
},
keyframes: {
fadeIn: {
'0%': { opacity: '0' },
'100%': { opacity: '1' },
},
slideUp: {
'0%': { transform: 'translateY(10px)', opacity: '0' },
'100%': { transform: 'translateY(0)', opacity: '1' },
},
slideDown: {
'0%': { transform: 'translateY(-10px)', opacity: '0' },
'100%': { transform: 'translateY(0)', opacity: '1' },
},
},
},
},
plugins: [],
}
```

---

**End of Kanban Board Assignment Document**

*This assignment is part of Design System Component Library's hiring process. All submitted code remains your intellectual property.*