

UI/UX Documentation for Shopify Product Workflow Management App

Wireframes and UI Layouts

Login & Role-Based Routing

The application begins with a **Login Page** where users enter their credentials (email and password) to access the system. The login screen is simple and focused to avoid distractions: a centered form with clear labels (e.g. *Email, Password*), a prominent **Sign In** button, and links for password recovery and sign-up if applicable. Social login options (e.g. "Sign in with Google") may be provided as buttons above the form for convenience. Upon successful authentication, **role-based routing** directs the user to their appropriate dashboard view 1 2. For example, an Editor will land on the Editor Dashboard, while a Super Admin is taken to the Admin Dashboard. This ensures each role immediately sees the information and tools relevant to them, following the principle of customizing dashboards per user persona 1. If a user without permission attempts to access another role's route, the app will redirect them (or show an unauthorized message), enforcing Role-Based Access Control (**RBAC**) rules 3.

UI Elements & States: The login form uses Tailwind CSS form classes for styling (e.g. input fields with rounded borders and focus states). Validation messages appear inline under fields if login fails (e.g. "Invalid password" in red text). The **Sign In** button is disabled until both fields are filled to prevent empty submissions. A subtle loading spinner may replace the button text on click to indicate authentication in progress, giving feedback to the user. After login, the routing logic checks the user's role and loads the corresponding dashboard component – this transition is seamless, possibly accompanied by a brief loading state or skeleton screen while the dashboard data loads.

Super Admin Dashboard

The **Admin Dashboard** provides a comprehensive overview of the entire product workflow for the store. It is designed with a clear information hierarchy so the Super Admin (owner) can quickly grasp the state of operations ⁴. Key performance indicators and summary stats are placed prominently at the top – for example, cards showing **Total Products in Workflow**, **Products Pending Approval**, **Tasks Overdue SLA**, etc. Each summary card uses high-contrast text and possibly an icon for quick identification (e.g. a clock icon with an "Overdue Tasks: 3" label in red) while maintaining a clean, uncluttered aesthetic ⁵. Below the summary, the main area of the Admin Dashboard features the **Task Kanban Board** (or a tab to switch to a list view) showing all product tasks across stages.

On the left (or top on mobile), a **Navigation Menu** (built with shadcn/ui or custom Tailwind components) allows access to sections like *Tasks*, *Add Product*, *Users*, *Settings*, etc., depending on privileges. The Super Admin's menu includes management features not visible to other roles (like *User Management*, *Audit Logs*). The dashboard also includes a header bar with a **Notifications bell icon** and the Admin's profile menu. The

notification panel (on click) lists recent alerts such as "Editor X submitted Product Y for approval" or "Task Z has exceeded SLA by 1 day," enabling the Admin to quickly identify urgent issues 6.

UI Elements & States: Each widget or section on the Admin Dashboard is interactive where applicable. For instance, clicking the *Pending Approval* stat could navigate to a filtered task list of those items. All components are designed to be responsive – the summary cards stack vertically on a narrow screen. The **Kanban Board** (detailed below) on the Admin view shows all tasks; cards can be dragged between columns (the Admin has permission to move any task to rebalance work). If the number of tasks is large, horizontal scrolling is enabled for the Kanban section (with a sticky column header). Admin-specific actions, like **Add New Product**, appear as a prominent button (e.g. top-right of the board or in a navbar) with a distinct accent color. This button opens the Product Upload form. Throughout the Admin Dashboard, role-specific controls are enabled: for example, Super Admin sees "Edit" or "Delete" icons on all task cards (to modify or remove tasks) that other roles do not see. All destructive actions prompt confirmation modals for safety (e.g. "Are you sure you want to delete this task?" with Cancel/Confirm). The design uses consistent spacing and grouping to make the dashboard scannable – related info is grouped in panels, and whitespace is used to separate distinct sections, preventing information overload ⁵.

Warehouse Manager Dashboard

The **Warehouse Manager (WM) Dashboard** is tailored to the warehouse team's needs. Upon login, the WM sees a dashboard similar in layout to the Admin's but filtered to warehouse-relevant information. At the top, there may be summary tiles like **Items Awaiting Stock Check**, **Tasks In Warehouse Queue**, and **Dispatch Pending**, giving a quick snapshot of their responsibilities. Because role-based design is employed, the WM dashboard omits admin-centric data and shows only what this role needs 1 – for example, it might show how many new product entries are pending a warehouse update (like adding inventory or dimensions) and any tasks nearing their SLA in the warehouse stage.

The main content area could show the **Kanban board filtered to Warehouse-related stages** (e.g. a column for "Awaiting Warehouse" or "Inventory Update") or a task list of products currently in the WM's queue. Each task card highlights essential fields for the WM: product name, SKU, whether inventory info is complete, and perhaps a small status badge (like "Stock info missing" or a checkmark if completed). The WM can click a task to open its detail/edit view and update inventory-related fields. The interface emphasizes clarity – e.g., tasks that are **waiting on the warehouse** might be highlighted or sorted at top. If an SLA timer is set on the warehouse stage (say items should be processed in 2 days), a countdown indicator is shown on the task card. As time runs low, the indicator color changes from green to yellow (warning) to red if overdue 7, ensuring the WM notices items that need urgent attention.

UI Elements & States: The Warehouse Manager's view includes navigation for *Tasks*, but might exclude sections like user management. It could have a link to *Inventory Overview* if needed, but primarily it centers on workflow tasks. In the **task list/Kanban**, the WM can only drag/drop or advance tasks for which they are responsible – for example, they can move a card from "Awaiting Warehouse" to "Warehouse Done" (which might trigger the next step in the workflow), but cannot move tasks in other stages not under their purview. Inputs on this dashboard (like in a task's detail view) are optimized for quick data entry: e.g., numeric inputs for stock counts have increment buttons, and any required fields not filled will show a validation error if the WM attempts to mark the task complete. For instance, if *Weight* or *Dimensions* are required and left blank, a red-bordered error message "This field is required" will appear below the field, following accessibility best practices for form feedback ⁹ . The **state** of each task is visually indicated – tasks just arrived in the WM's

queue may have a subtle "new" badge or highlight. Tasks completed by the WM but awaiting further approval may appear in a separate list or with a "completed" tag, read-only to them. The WM dashboard is responsive and accessible: on mobile, the Kanban columns collapse into an accordion or vertically stacked lists for easier vertical scrolling. All interactive elements (buttons to update a task, etc.) have keyboard focus styles and ARIA labels where appropriate, ensuring the WM can navigate without a mouse if needed ¹⁰.

Editor Dashboard

The **Editor Dashboard** is designed for the content editing team (two users in this role). Immediately after login, Editors see a focused view of tasks related to product content creation and editing. The top of the dashboard might show **My Tasks** and **Team Tasks** counters, or a breakdown like **Drafts in Progress**, **Ready for Review**, and **Revisions Requested**. This gives editors a quick sense of their workload and priorities without showing extraneous data 1. For example, an Editor might see "Drafts in Progress: 2" and "Awaiting Review: 1" so they know one product is ready to be sent for approval and two are being worked on.

The main view can be a **Kanban board filtered to editorial stages**. Columns could include **Drafting**, **Ready for Review**, **Changes Requested**, and **Approved**. Each card in the Drafting column shows a product that the editor is currently working on or has been assigned. Cards display the product title, perhaps a thumbnail image, and status badges like "Draft" or "Revise" to signal state. There may also be a due date or SLA timer on each card if content completion has a deadline – e.g., a "Due in 1 day" badge that turns yellow as the deadline nears 11. The Editor can drag a card from *Drafting* to *Ready for Review* once they've completed the product content, triggering a status change and notifications to the Auditor/Admin.

UI Elements & States: On the Editor Dashboard, an **"Add New Product"** button is usually present (if Editors are allowed to initiate new product workflows). Clicking this takes the editor to the **Product Upload Form** (detailed below). The dashboard also lists any tasks returned to them for changes (in a *Changes Requested* column or highlighted in the list with a flag). These cards might have a small icon or color indicating they require attention. The Editors have a streamlined navigation – likely just *Dashboard/Tasks* and maybe a link to *Knowledge Base* or *Guidelines* if provided (to remind them of content standards). They do not see admin or warehouse sections, per RBAC settings

In terms of states: if an Editor has no tasks yet, the dashboard will show an **empty state illustration** or message like "No tasks assigned yet" to reassure them the system is working (possibly with a prompt to click "Add New Product" to start one). If tasks are present, each can be clicked to open the detail/edit view. The Editor Dashboard uses color and typography for clarity: for instance, tasks *Awaiting Review* might have blue accents, whereas *Overdue* tasks use red text to draw the eye. Font sizes are chosen for readability, with at least text-base (1rem, ~16px) for normal text and larger for headings, ensuring content is legible even on smaller screens ¹⁰. The design avoids small text or low-contrast color combinations for labels; all text meets WCAG AA contrast standards (checked via tools) for accessibility ¹². Editors can navigate via keyboard through their task list – e.g., using Tab/Arrow keys to focus task items – with visible focus indicators (like a blue outline on the focused card) to support accessibility for power-users who prefer keyboard operation ¹³.

Auditor Dashboard

The **Auditor Dashboard** is a read-only view that allows the Auditor to monitor the workflow and review completed tasks for quality assurance. This dashboard likely presents a high-level **Kanban or task list of all products** currently "Ready for Audit/Approval" or recently completed. It may be very similar to the Admin's view of the Kanban board, except with editing controls disabled. For example, the Auditor might see columns for each stage, but cannot drag cards; instead, they can click to open and review details. The Auditor dashboard might highlight the **Review & QA Checklist** status of each task – e.g., an icon or badge indicating whether the Editor completed all checklist items.

The top of the Auditor Dashboard could have a small summary: **Pending Audits: X**, and perhaps **Tasks Overdue** if any tasks have lingered in review too long. Since the Auditor's role is oversight, their interface is oriented toward checking completeness and compliance. They might also have quick filters (e.g., to show tasks completed in the last week, or tasks by a specific Editor) to facilitate auditing.

UI Elements & States: In read-only mode, the UI ensures that no accidental edits can occur. Fields in the task detail view are displayed as plain text or disabled inputs. Edit buttons, drag handles, and "Add" actions are hidden from the Auditor, reinforcing their view-only permissions ³. However, the Auditor *can* interact in non-destructive ways: for example, they can toggle the visibility of the QA checklist or use filters and search. They may also be allowed to leave **comments** on a task (to note issues) since commenting doesn't modify the core data – the UI would present a comment box or a "Feedback" section on the task detail for the Auditor to write remarks like "Please verify dimensions – seems incorrect." These comments become part of the task's history log.

A key aspect is the **audit trail visibility**. The Auditor Dashboard might provide access to an *Audit Log* or display timestamps of each action on a task (e.g., "Editor marked complete on Sep 10, WM updated inventory on Sep 9"). This leverages the system's tracking of all user actions ¹⁴. Every task detail screen the Auditor opens will include a history section, satisfying the need for accountability and compliance verification. The design uses visual hierarchy to make this easy: the current data vs. logged events might be in separate tabs or panels. For example, the top of the detail view shows product info, and a collapsible sidebar shows the "Activity Log" of that task (with scrollable timestamps), which the Auditor can read to ensure the process was followed properly ¹⁴.

Because the Auditor may handle many tasks, the UI supports efficiency: search bars (with placeholder "Search products or SKUs...") are prominent, and the design avoids heavy graphics that could slow down scanning. Everything is optimized for quick reading – clear labels, grouped information, and the ability to sort or filter the tasks list. If an Auditor identifies an issue (like a missing checklist item or a data discrepancy), they cannot directly fix it (no edit rights), but they can trigger a workflow action such as marking the task as *Rejected* or *Needs Revisions*. For instance, an Auditor viewing a task might have a "Send Back for Revision" button. Clicking it opens a modal to confirm the action and possibly add a note. Once confirmed, the task's state changes to "Requires Revisions" and a notification is sent to the Editor who worked on it. This button is the only kind of action the Auditor can perform – it doesn't alter product content, only the task status, which keeps within their read-only/content-frozen permission while still enabling them to fulfill their QA role. The interface clearly differentiates this action (perhaps using a distinct color like orange for "Send Back" to indicate a warning/action needed). In contrast, if everything is good, the Auditor might simply mark the checklist as reviewed or inform the Admin that the product can be approved. (In some implementations, the Auditor's approval might just be communicated offline or via a comment,

and the Admin does the final publish.) In all cases, the **Auditor's interactions are logged** for traceability – e.g., the system logs that "Auditor marked task as needing changes on [date]" – contributing to a robust audit trail [14].

Task List / Kanban Board

Figure: Kanban board view of tasks. Each card on the board represents a product task moving through stages (columns such as To Do, In Progress, Done). The board provides a visual overview of workflow state, where each column holds cards for tasks in that phase. Cards display key info: a title/ID, a status label or color tag (e.g. red for To Do, yellow for WIP, green for Done), assignee avatar or initials, and possibly icons or counters for subtasks, comments, or attachments. Users can drag and drop cards between columns to update task status (if their role permits), making it an interactive way to progress work through the pipeline. This visual method helps users immediately see bottlenecks or stalled tasks, as cards pile up in a column or show aging indicators.

The **Task Kanban Board** is a core UI component for workflow tracking. It consists of multiple columns, each representing a stage of the product content process. For example, typical stages might be **New / Backlog**, **Drafting**, **Warehouse Update**, **Ready for Review**, **Completed** (the exact columns are configured to the store's process). The columns are laid out horizontally, each with a heading and a count of tasks in that stage. Under each column header, individual **task cards** are listed vertically. The Kanban is scrollable horizontally if there are many stages, and vertically if many cards. It's built with Tailwind CSS grid/flex utilities for responsiveness, and potentially uses a library (like drag-and-drop from @dnd-kit or similar) for card movement.

Each **task card** shows a snapshot of the product task: typically the product name (or SKU) as a bold title, a small thumbnail image if available, and some meta data. Meta might include the **assignee** (shown as a small avatar or name label), the **due date/SLA** for this stage, and perhaps tags like priority or category (e.g., "Marketing" or "Electronics" to indicate department or product category). Cards often use color-coded status chips – for example, a card in the "In Progress" column might have a yellow badge labeled *WIP* (Work In Progress), while one in "Ready for Review" might have a blue *QA* badge. These visual cues allow users to parse the board at a glance ¹⁵. If a task is **blocked or needs attention**, an icon (like a red flag) might appear on the card. SLA countdowns on cards are updated in real-time or on refresh, and critical warnings (like overdue tasks) turn the card or its due date text red for visibility ⁷.

Interactions: Users can drag a card from one column to another to update its status in a natural way. For instance, an Editor, after finishing content, drags a card from *Drafting* to *Ready for Review*. The system will likely prompt for confirmation or automatically update the task's status and assign it to the next role (Auditor) behind the scenes. If a user doesn't have permission to move a card to certain columns, the UI either prevents the drag (e.g., no grab cursor) or shows an error if attempted. The Kanban is thus context-aware of roles. Super Admin can move any card anywhere (overriding if needed), Warehouse Manager can only move cards out of the Warehouse stage once they've input the data, etc. Each column header might have an "Add" button (a plus +) to create a new task in that stage - though typically new tasks start in the first column. In our case, "New Product" tasks might be added via a form rather than directly on the board, so the first column could have a placeholder card or a link prompting the *Add Product* form.

This board is not only interactive but also informative: by visualizing tasks and their constraints, the team can see where work is piling up or slowing down ¹⁵. For example, if the *Review* column has many cards accumulating, it signals a bottleneck. The UI might highlight this by showing the column count in a red

bubble if it exceeds a set threshold or SLA timeframe. WIP limits can be indicated on the column header (e.g., "Review (limit 5)"); if a user tries to drag more cards into a column exceeding the WIP limit, the system could display a warning ("WIP limit exceeded – finish some tasks before adding new ones") ¹⁶ ¹⁷. This practice enforces focus and triggers team conversations rather than silent overload, as moving tasks further without clearing current ones becomes intentionally difficult ¹⁷.

For accessibility, each card and column is also operable via keyboard. Users can tab to a column's "Add" button or a card, use arrow keys to navigate between cards, and press Enter to open a selected card's detail. ARIA labels on drag handles or the columns ensure screen readers can announce the number of tasks and the column titles. The Kanban view uses sufficient color contrast for all text (column headers, card text) – e.g., light backgrounds with dark text – to be readable for all users ¹⁸. It also uses alternative indicators (like icons or text labels "Overdue") in addition to color for critical statuses, so that colorblind users can differentiate states.

Overall, the Kanban board provides a live snapshot of the workflow. It's updated in real-time if possible (via web sockets or polling) so that, for example, when an Editor moves a task to *Ready for Review*, the Auditor's board updates and perhaps a highlight effect draws their attention to the new card. This dynamic responsiveness, combined with clear visual grouping by stage, makes it easy to **identify urgent issues within seconds** 4 – the Super Admin or any team member can glance at the board and see where work is concentrated or delayed.

Task Detail & Edit View

Clicking on a task card opens the **Task Detail view**, which provides an in-depth look at the product and allows editing (if the user has rights). This can be implemented as a modal dialog that overlays the dashboard, or as a separate page/screen. In either case, the detail view is structured with a clear layout to review and input data. At the top, it shows the product name or identifier prominently, and possibly the current status (stage) and assignee. For example: "**Wireless Headphones X100** – In Review (Assignee: Auditor)". If implemented as a side panel or modal, a close button (X) is at the top corner to return to the main board.

The detail view is essentially a form with multiple sections, possibly organized with tabs or accordions if very long. Key sections include: **Product Information** (title, description, pricing, etc.), **Media** (images or files attached), **Inventory Details** (if applicable, e.g. SKU, quantity, warehouse location – shown to WM and Admin), and **Workflow** metadata (who created the task, timestamps for each stage, SLA timer info). Fields are displayed in read-only or editable mode depending on the user's role and the task's state. For instance, when an Editor opens a task in Drafting, all content fields are editable text inputs or rich text editors. If the Auditor opens the same task in Review, those fields appear as plain text or disabled inputs, since they are not meant to change the content but only to review it.

Inputs & Validation: All form fields follow a consistent design (possibly using shadcn/ui form components for accessible markup). Labels are clearly associated with inputs, either visible or as placeholders. Required fields are indicated with an asterisk () or "Required" note. Validation is handled both on the client (for immediate feedback) and on save. For example, if the Price* field is left empty or a non-numeric value is entered, the field might get a red outline and an error message like "Price is required and must be a number" as soon as the user leaves the field (onBlur) or tries to save 9. Similarly, if an image upload fails due to size limits, an error alert appears next to the upload button. Conditional fields (like if a checkbox "Has Variants" is checked,

then show variant options) appear or hide dynamically – the form logic ensures that all necessary inputs are shown to the user.

At the bottom of the detail view, action buttons are provided. Common actions include **Save** (save changes as draft), **Submit** (for sending to next stage), or **Approve/Complete** (if the user is finishing the task). These buttons are context-sensitive: an Editor might see "Save Draft" and "Submit for Review," a Warehouse Manager might see "Mark Inventory Updated," an Auditor might see "Approve" or "Request Changes," and the Admin might see "Publish to Store" or "Approve." Each action button likely has a distinct style (primary button for the main action, secondary for others). The primary action button is disabled until the form is valid to prevent incomplete submissions; hovering it might show a tooltip "Complete all required fields to submit."

On clicking an action like **Submit**, a confirmation dialog could appear ("Are you sure you want to submit for review? No further edits will be possible unless requested.") to ensure intentionality. Upon confirmation, the system transitions the task to the next state. The UI provides feedback: e.g., a **success banner** or toast message at the top saying "Task submitted successfully!" in green, or if something goes wrong (network issue, etc.), an **error message** in red appears ("Failed to submit, please try again") ⁹ . Meanwhile, the Kanban board in the background (if visible) might update by moving the card to the next column.

Conditional Behaviors: The form can adjust based on role and state. For example, in the Review stage, the Auditor's detail view might show a read-only form plus the QA Checklist (see next section) and a section for Comments/Feedback. They might have a button to send it back to Editors with comments. If they click "Request Changes," a comment box could be required ("Please provide a reason for changes") – validated to ensure they don't send it blank. This comment then shows up for the Editor in the task history. If the Admin is viewing a task in final approval, they might see an Approve & Publish button. Clicking that might trigger integration (e.g., actually pushing the product live on Shopify via API), during which a loading indicator (spinner or progress bar) is shown to indicate work in progress. The UI might gray out or disable inputs while an asynchronous action is running to prevent duplicate actions.

The design of the detail view uses visual **tabs or subtabs** if needed. For instance, to avoid one very long scroll, there might be tabs like *Details*, *Images*, *Checklist*, *History*. The **History** tab contains the audit trail of the task: who did what and when, which is invaluable for the Auditor role and for overall accountability ¹⁴. It logs events like "Editor A saved draft at 10:30am", "WM B updated stock at 11:00am", "Editor A submitted for review at 2:00pm". This is presented in a chronological list, perhaps with relative times ("2 hours ago") and is read-only.

From a **Tailwind CSS design** perspective, the detail/edit view uses a simple and responsive layout – often a two-column grid for desktop (with labels on left, inputs on right, or grouping related fields side by side) that collapses to one column on mobile for easy vertical scanning. Important information like product title is in larger font (e.g. text-x1 font-semibold). Section headings (like "Inventory Details") are styled with a slightly accent background or just bold text to delineate sections. The form elements themselves use Tailwind's form classes or shadcn/ui components which are built to be accessible: for example, all inputs have focus states (blue ring outline) for keyboard users 13, and each input is linked to its label with proper id and for attributes. Error messages are given aria-live="assertive" so screen readers announce them when they appear, ensuring no user misses critical feedback.

Product Upload / Edit Form

The **Product Upload Form** is a dedicated screen (or modal) for creating a new product task in the workflow. This form is accessible from an "Add Product" button on the dashboards (visible to Editors and Admins). It collects all initial data needed to create a product listing in Shopify and kick off the workflow process. The form is comprehensive but designed for usability and speed, using a multi-section approach with logical grouping and progressive disclosure to avoid overwhelming the user ⁴.

Form Layout: The form is divided into sections with clear headings, for example: **Basic Info, Description & Media, Pricing & Inventory, SEO & Publishing**. Initially, perhaps only Basic Info is fully visible, and others can be tabs or accordions that the user expands in sequence. *Basic Info* includes fields like Product Name (text), Category/Type (dropdown), and perhaps a checkbox for "Requires Warehouse setup" (if certain items need special handling). *Description & Media* includes a rich text editor for the product description, an image upload component (possibly multiple images with preview thumbnails), and fields for specs or attributes. *Pricing & Inventory* has numeric inputs for price, SKU, initial stock quantity, weight/dimensions (for shipping). *SEO & Publishing* might include tags, meta description, and an option like "Publish immediately after approval" (checkbox).

Each section is clearly delineated with subtle background or border, so the user can focus on one chunk at a time. The design uses placeholders and helper text to guide data entry (e.g., "e.g., ACME Wireless Headphones" inside the Name field, or a note below SKU field about format). If using shadcn/ui components, the form might leverage ready-made **FormField** and **FormItem** components to ensure consistency and accessibility out of the box.

Dynamic Behavior: Some fields appear based on prior inputs. For example, if the user selects a category "Clothing", additional fields for *Size* or *Color* variants might show up. This is handled by the React state – initially hidden fields become visible, using Tailwind utility classes (hidden or conditional rendering) to smoothly reveal them. Another example: a toggle for "Has Variants" if turned on will dynamically add a subform to input variant details. The UI should make these changes obvious (perhaps with a short fade-in animation of new fields) so the user isn't confused by suddenly appearing inputs.

Validation & Feedback: As with the task detail form, required fields are marked and validated. The **Submit** button (likely labeled "Create Product" or "Next: Review") remains disabled until critical fields in *Basic Info* at least are filled. Client-side validation checks formats (like a valid number in Price, positive integers for stock). On submit, the form performs a final validation; any errors cause the relevant field(s) to highlight in red with messages ⁹. For instance, if the Name is missing, the top of the form might scroll or jump to that field with an error "Product name is required." If all good, when the user submits, a spinner indicates processing. If the product creation is quick (just sending data to backend), a success message is shown: e.g., "Product saved! Task created in Drafting stage." The user could be redirected to the newly created task's detail view or back to the dashboard with the new task visible in the Kanban.

Since this form is the start of a workflow, upon success it might also present the **Review & QA Checklist** (if immediate) or instruct the user on next steps ("Now complete the QA checklist before submitting for approval"). Possibly, the creation form could directly flow into the checklist (like a multi-step form wizard) – e.g., step 1: enter data, step 2: confirm checklist, step 3: finish. If so, a progress indicator at top ("Step 2 of 3") would guide the user. However, we'll cover the checklist separately.

Mobile & Accessibility: On mobile devices, the form becomes a single column, labels may stack on top of inputs for better fit. The *image uploader* might allow selecting from camera or files easily. Touch-friendly design is crucial: buttons are at least 44px tall, form controls have sufficient padding so they're not too small to tap ¹⁹. The color contrast of input borders and text meets guidelines – for example, using Tailwind's border-gray-300 on a white background is acceptable, but for better contrast in dark mode or certain screens, we'd ensure at least 3:1 contrast ratio for form field borders, or provide a focus ring that is highly visible (Tailwind's default focus:ring-blue-500 is a strong indicator) ¹³. Each input has an associated label for screen readers, and any error messages are announced (with role="alert" or similar). We also ensure that pressing Enter on any field that logically should submit (like in single-field forms) works, and pressing Escape cancels if it's a modal.

In summary, the Product Upload form follows **UX best practices for forms**: it's simple where possible, breaking up a complex task into manageable sections, providing immediate feedback, and ensuring the user can confidently move to the next step of the workflow. This careful design reduces errors and frustration when adding new products – an essential foundation for the workflow's success ²⁰ ⁹.

Review & QA Checklist Screen

After an Editor has filled in all product details, they must complete a **Review & QA Checklist** before the product can be passed to approval. This screen can be a distinct view or a section within the task detail view, typically appearing when a task is moved to "Ready for Review". The checklist serves as a quality gate – ensuring all necessary checks are done (content accuracy, media quality, SEO, etc.) – and it's a key part of the Auditor's oversight as well.

Layout & Content: The QA Checklist is presented as a list of checklist items with checkboxes (or toggle switches) that the Editor/Auditor can mark. Each item is a short statement of a quality criterion. For example, items might include: "All product images are high resolution and properly cropped", "Description has no spelling or grammar errors", "Price and discounts (if any) are correctly set", "Inventory data (SKU, stock, weight) entered and verified", "SEO metadata (title & description) is provided", "Compliance checks (if any) passed". Next to each item is a checkbox that the user ticks once that condition is met. Some items might have a tooltip or info icon that, on hover or focus, shows additional guidance (e.g., what constitutes passing that check). Using a component from shadon/ui or similar, each checklist row can be a **FormField** with a Checkbox and Label.

If the Editor is filling this out, all boxes should be checked by them before submission. The UI can enforce this: the *Submit for Review* button remains disabled until every required checkbox is ticked. If the Auditor is viewing the checklist, they will see what the Editor marked. Possibly, the Auditor can also tick or untick items to signify their independent verification. However, since the Auditor is read-only for product data, they might not actually change the checkboxes but rather just confirm them visually or in their notes. Alternatively, the Auditor could have a separate checklist (like an *Auditor verification*) which is also a series of checks they go through without editing content. For documentation's sake, let's assume the checklist is primarily filled by the Editor, and the Auditor just reviews it.

States & Behavior: When an Editor opens the checklist (likely after completing the form), any item that is not applicable might be marked N/A or omitted. All others start unchecked. As they review each, they click the checkbox which immediately marks it with a check icon and perhaps strikes through the item text or changes its color to indicate completion. This immediate feedback (the checkmark appearing) is a small

satisfying microinteraction confirming the action ²¹ . If they attempt to submit without completing one, the remaining item(s) might be highlighted or an error message "Please complete all checklist items before submitting" shows ⁹ .

For the Auditor, the checklist likely appears in a read-only fashion. The Auditor might see green checkmarks for all items the Editor completed. If something was missed (an item not checked), that would be a red flag for the Auditor that the Editor didn't confirm it. The Auditor could then decide to send it back. In some designs, the Auditor might actually have to verify each item too by checking them off for their own tracking. If so, those would be separate controls (maybe a second set of checkboxes labeled "Auditor verification"), to avoid confusion with the Editor's original ticks. However, to keep it simple, we'll consider the checklist as a one-time list the Editor completes.

Component Design: The checklist uses clear, simple styling. Each item's text is left-aligned; the checkbox is on the left for LTR languages. We ensure the checkbox is accessible – relatively large clickable area (at least 20x20px box plus label clickable) for easy tapping ¹⁹. The text uses normal body font but can turn a different color when checked (e.g., gray out) to indicate it's done. There might also be a summary at the top like "Checklist: 5/5 items completed" updating live as they tick items.

The entire checklist is in an easily scrollable container if too long. On smaller screens, each item might wrap text if needed. If using keyboard, the user can tab to each checkbox and press Space to toggle it – focus outlines are visible on the checkbox or label to show which item is focused. Each label explicitly ties to the input for screen readers, and there's an aria-live polite region for the summary count so a screen reader user knows how many remain.

Integration with Workflow: Once all items are checked and the Editor submits the task for review, the state of the checklist is saved (likely as part of the task data). The Auditor, upon opening the task, can view this checklist. If any item was falsely checked (e.g., Editor ticked "Images high resolution" but Auditor finds a low-res image), the Auditor can flag this via a comment or by marking the task as needing changes. The **design rationale** here is to ensure accountability and completeness – by forcing a deliberate pass through a checklist, errors are caught earlier and Editors are held responsible for quality checks ²² (every completed checklist item is essentially the Editor saying "I vouch this is done," which creates an act of *mutual accountability* when the task moves forward ²³).

Visually, this screen keeps a clean, focused look so the user concentrates on the checks. No excessive decoration; perhaps just a subtle icon or illustration at the top (like a checklist icon) to give it some character. The emphasis is on clarity: the statements should be short and unequivocal. If any check fails, the UX encourages using the comment system for details rather than long text in the checklist item itself.

Error Prevention: The checklist inherently prevents some errors by reminding the Editor of important steps (for instance, if they forgot to add images, one checklist item will catch that before they submit). This reduces the iteration loop and improves efficiency. From a UI standpoint, the "Submit" button could even be contextually labeled "Submit (All checks passed)" once everything is done, reinforcing that they're good to go.

In summary, the Review & QA Checklist screen is a vital UX component that embeds quality control into the workflow. It's straightforward in UI – a list of checkboxes – but its presence significantly boosts process

reliability, ensuring that by the time a product task reaches final approval, it has already met all baseline criteria.

SLA Alerts & Countdown Indicators

To uphold service level agreements (SLAs) and deadlines within the workflow, the application uses prominent **SLA alerts** and **countdown indicators** throughout the UI. These elements serve to inform users how much time is left for a task in a given stage and to warn when deadlines are approaching or missed.

Countdown Timer Indicators: Many task cards and detail views display a countdown of time remaining. For example, if a product content task has an SLA of 3 days for the Editor to complete it, when the Editor opens the task detail they might see a label at the top like "Time remaining: 2d 4h". This could appear as a small pill-shaped badge or as part of the task metadata. On the Kanban card, it might be an element like "Due in 2 days" or if within hours, "Due in 3h". The timer is usually shown in a highlighted color that changes according to status ⁷ ²⁴: green when plenty of time is left, yellow when the task is nearing the SLA breach threshold, and red when the deadline has passed (breached). This color change is dynamic – e.g., 8 hours before SLA, the badge might turn yellow and say "Due in 8h" as a warning. Once past due, it might read "Overdue by 1h" in red. These indicators update in real-time (or at least refresh on each page load) to ensure accuracy. The use of color and terms like "breach" or "overdue" follows the familiar patterns seen in ITSM or project management tools, where SLA timers flash or turn red when violated ⁸. Importantly, color highlighting is combined with text so that even colorblind users or those not looking for color will see "Overdue" explicitly ²⁵.

Alert Banners: In addition to per-task indicators, the system surfaces SLA issues at a higher level with alert banners. For instance, on the dashboards, if any task assigned to the current user is overdue or due very soon, a banner may appear at the top of the screen: a horizontal bar with a warning icon (like a clock or exclamation) and text such as "\(\text{\text{\text{\text{\text{\text{overdue}}}}} \) You have 1 task overdue and 2 tasks due today. Please prioritize them." This banner uses a noticeable background color (perhaps a yellow for warning or red for critical) and is placed prominently (right below the header) so it's hard to miss. For a Warehouse Manager, the banner might say "2 products have been waiting for inventory update for over 24h – check the Warehouse queue

26 ." Clicking the banner could navigate to a filtered view of those tasks or simply dismiss the alert. Super Admin might see banners regarding any SLA breaches across the team, whereas Editors see only their own (or none if they have none late).

Notifications Integration: The SLA alerts are also integrated with the notification system. As a task approaches its SLA deadline, the user might receive an in-app notification ("Task #123 is due in 1 hour") in the notifications dropdown, or even an email if configured. These notifications reiterate the same info in textual form. Inside the app, the countdown timers themselves serve as a passive notification, but for active alerts, modals or toasts could be used. For example, when a task actually breaches (goes past SLA), a red toast message might pop up for the responsible user: "Task 'XYZ' has exceeded its SLA!" – reminding them to act immediately. The design of these toasts or banners follows feedback cue best practices: they are **highly visible** (contrasting color, maybe an icon), **concise** in messaging, and might require dismissal so the user acknowledges them ²⁷ ⁹.

On the **task detail view**, if a timer is running out, the UI might additionally emphasize it by an animated effect – e.g., the countdown text could pulse or the icon could shake slightly when under 1 hour, to catch

attention. However, such animation is used sparingly to avoid annoyance. A static color change is usually sufficient.

Examples in UI: If using a component library or design system reference, we might emulate the ServiceNow Horizon **SLA Timer** component guidelines: they mention using a highlighted value and changing colors to indicate status (running, breached, etc.) 7 ²⁴. In our app, an example is a clock icon with a countdown next to it: "① 1d 3h remaining" in green. When <4h, it might turn yellow and the icon perhaps changes to a warning symbol "△ 3h 0m remaining". When breached, icon becomes a red exclamation "! Overdue by 1h". These indicators are placed near the top of a task detail (often next to the status or assignee info) and on task cards (often at the bottom or top-right corner of the card for visibility).

The **implementation** ensures these timers start counting from when a task enters a phase ²⁸. For instance, if a card moves into "Review" at 5:00 PM and that phase has a 24h SLA, the timer starts from that timestamp and counts down 24h. If the task leaves the phase (gets approved or moved forward) before time's up, the timer might show an "Achieved" or "Met" status briefly or simply disappear because it's no longer relevant. If time runs out while in the phase, an **escalation** might be triggered (for example, automatically notify the Admin or move the task to an "Escalation" column) ²⁹ ³⁰, but from a UI perspective, the main feedback is the color change and alert message.

All SLA indicators are designed with accessibility in mind: they use text to convey time, not just color. The format "2d 5h" is compact, and tooltips can show the exact due date/time on hover ("Due by Sep 20, 2:00 PM"). The screen readers would read the timer as part of the task info (e.g., "Time remaining: 2 days 5 hours"). We label the element with aria-label accordingly.

By incorporating these countdowns and alerts, the UI encourages timeliness and accountability. Users get a **visual countdown** that keeps them aware of their deadlines, and managers (Admin/Auditor) get visibility on any delays (since they can see red overdue markers on the board, for example). This aligns with Kanban best practices of making aging work visible to prompt help rather than blame ³¹. In fact, by visualizing the age of tasks, the team can detect slowdowns before they become serious ³¹ and intervene collaboratively – the UI's SLA highlights facilitate this by bringing aging items to everyone's attention. Overall, SLA alerts in the app ensure that no task "falls through the cracks" without the team knowing it's late, thus maintaining a high level of service and efficiency.

Screen-by-Screen UI Descriptions

(The following provides a summary of key UI elements, states, and components for each major screen as described above, consolidating some of the details for quick reference.)

- Login Screen: A centered card with app logo and login form (email & password fields with labels, a "Keep me logged in" checkbox, and Sign In button). Includes links for "Forgot password?" and optionally "Sign in with Google/X" buttons above the form for OAuth login. The styling is clean and minimal. Validation: shows error banners (e.g., incorrect credentials) in an alert box above the form

 9 . After login, role-based redirection takes user to their dashboard (Admin, WM, Editor, or Auditor).
- Admin Dashboard: Top navigation bar with app name, navigation menu (collapsed into hamburger on mobile), and user profile menu. Possibly a sidebar on desktop for navigation (Dashboard, Tasks,

Users, Settings, etc.). The main content: **Dashboard widgets** (cards showing counts and stats). Example: "Tasks In Progress: 5", "Awaiting Review: 2", "Overdue: 1" – each with an icon and colored border (e.g., overdue in red). Below, the **Task Kanban** for all tasks. Key UI elements: ability to filter the board (dropdowns or search to filter by assignee, category), and a button "Add New Task". **States:** if data is still loading, skeleton boxes are shown for cards; if no tasks at all, a friendly empty-state message. Admin can navigate to a **Task List view** (table of tasks) via a tab or toggle in case Kanban is not preferred. The Kanban cards include small "Edit" (pencil) and "Delete" (trash) icons only for Admin role, allowing them to quickly edit or remove tasks if needed. These icons have hover tooltips and confirm on click for deletion. Component design uses Tailwind UI **cards**, **badges**, and **dropdowns**. The dashboard also surfaces **notifications** – possibly a bell icon in the nav with a red dot if there are new ones (clicking it shows recent notifications as a dropdown list ³²).

- Warehouse Manager Dashboard: Similar layout to Admin but limited menu options (maybe no User management). Contains summary widgets relevant to warehouse (e.g., "Pending Stock Updates: X"). The main view might default to a filtered Kanban or list focusing on the Warehouse stage tasks. Key elements: Task list with columns "To Do" (items waiting for WM) and "Done by WM" (items WM completed). Each task row/card shows product name and a status of warehouse update (e.g., a check if done or empty if not). A filter bar might allow filtering by product category or urgency. States: Overdue tasks in this context might be highlighted with a small flame or clock icon in red next to the task name. Components from Tailwind like alerts could be used to draw attention to overdue items at the top of the list.
- Editor Dashboard: Navigation limited to relevant items (perhaps *Tasks*, *My Drafts*, maybe *Style Guide* link). Shows a list or Kanban of just the Editor's tasks (and possibly their team's tasks). **UI elements:** a toggle to show "My tasks" vs "All content tasks". Each task card or row clearly indicates if it's assigned to the user or to their colleague (with an avatar or name). They have a prominent "Add Product" button (styled as primary) to create new tasks. Possibly a quick view of their tasks by stage: e.g., a progress bar or segmented control showing how many in Draft vs Review. States: If an Editor has an overdue draft, it might appear with red text "Overdue" in the listing and bubble up to a dashboard alert. If waiting on someone else (like after they submitted for review), those tasks might be in a separate category labeled "Pending Approval" with a lock icon (indicating they can't edit unless sent back). The design uses Tailwind utility classes for layout e.g., a flex grid for stats at top, and a list group for tasks. Each list item might be a Tailwind card or a bordered list item with hover highlight. Editors also get inline feedback on their dashboard e.g., after submitting a product, a small green toast " Product submitted for review" appears and then fades, reinforcing their action success ⁹.
- Auditor Dashboard: Navigation extremely limited (maybe only *Tasks* and a read-only *Reports* page). Likely presents the **Kanban board of all tasks** (like Admin view) but without any editable controls. The Auditor can click tasks to view details but cannot drag or edit them. The UI may include a **search bar** to quickly find a product by name or SKU (since an Auditor might need to look up specific items). If an Auditor also has to check completed tasks, there could be a tab for "Completed Products" showing tasks that were finished (for auditing after the fact). Key UI element: a **read-only mode indication** possibly the top of the screen says "Auditor View (Read-Only)" as a subtle reminder. States: If the Auditor selects a filter (like show only tasks in Review stage), the UI responds by greying out other tasks. The design likely uses **tables or lists** if that suits the Auditor better (some auditors might prefer a sortable table of tasks with columns like Name, Last Updated, Status, Assignee). If

provided, such a table could be built with a Tailwind table component or a shadon/ui table – with sorting arrows on the header. Regardless, all interactive controls that change data are removed or disabled. For instance, the **QA checklist** items appear as checked/unchecked but disabled checkboxes (Auditor can't change them, just view). The **comment box** is still active so Auditor can give feedback. This separation ensures compliance with the read-only nature while still letting the Auditor perform their duties.

• Task Detail/Edit Screen: A composite of form elements organized under headings, often implemented as a modal or separate page. Key UI elements include: Tabs for different sections (Details, Media, etc.), a timeline/history section (which might be a collapsible panel or a sidebar on larger screens), and action buttons at the bottom (Save, Submit, etc.). Each field that can be edited has a clear label and placeholder. We use consistent components like text inputs (| <input> | styled with Tailwind forms), text areas for multi-line (description), file upload (which could be a custom component showing thumbnail previews). Validation states: fields with errors have borderred-500 and an icon (exclamation) perhaps at end of input, with a small text below in red-600 describing the error 9. Fields that are valid might optionally be highlighted in green (though often we keep neutral styling and only highlight errors). The Save Draft button is typically secondary (maybe gray or blue outline) whereas **Submit** is primary (blue solid). If the user clicks Save, a spinner may appear on the button and it will be disabled until the save completes (to avoid multiple clicks). After saving, perhaps the button gets a subtle "Saved" tick or the timestamp of last save is shown ("Last saved 1 minute ago") for reassurance. The comments section (if present) shows a list of user avatars and comments timestamped, with a text box for adding a new comment - usually at the bottom of the task detail. This uses a standard UI pattern for comments (scrollable vertical list).

When the task detail is viewed by different roles, the UI adapts as described: Editors see editable fields for content; WMs see editable fields for inventory and read-only for content; Auditors see all read-only. This could be achieved by conditionally adding the disabled attribute to inputs and hiding edit buttons based on role. The **component design** can leverage something like conditional classes in Tailwind (e.g., {disabled: userRole==='Auditor'}) to apply a disabled style.

• **Product Upload Form:** Much of this overlaps with the Task Detail for Editors, but typically it's an initial creation form possibly separated in steps. Key elements not yet mentioned: an **image upload interface** – likely a box with "Drag & drop images or Click to upload" text, which on click opens file dialog. After selecting images, thumbnails appear in a grid with the ability to remove an image or mark one as the cover photo. This interface needs to show upload progress if large images are being uploaded; a small progress bar might overlay the thumbnail until upload is done. If using a library, we might incorporate one of Tailwind's progress bar components for that. Another element: **rich text editor** for description – if using a simple approach, this could be a large textarea with some basic toolbar (bold, italic, bullet list). If a full editor is beyond scope, a simpler multi-line textarea is provided and guidelines indicate to use Markdown or plain text.

States & Feedback: If the user tries to navigate away (close the modal or hit back) after entering data but before saving, the app should warn them ("You have unsaved changes. Are you sure you want to leave?") in a modal, to prevent accidental loss. After successfully creating a product, the UI might clear the form and show a success page or direct them to the newly created task's page. Possibly, an interim screen "Product

created! Next, assign to Warehouse" or something might appear, but likely it just auto-forwards to the task view.

- Review & QA Checklist: A straightforward list of checkbox items (as described). In UI terms, it might be a modal titled "Quality Checklist" that pops up when Editor clicks "Submit for Review", requiring them to complete it. Or it could be at the bottom of the product form as the final section. Each checklist item might be rendered as a **shadcn/ui Checkbox** component which comes with proper focus styles and animations. The Auditor view of this is either the same checklist rendered read-only or an exported report. If the Auditor has to print or export the QA, a "Print Checklist" button could be provided which formats the checklist and product details into a printer-friendly format (this might open a new window or use window.print()).
- SLA Alerts: Appear as needed, not a standalone screen but as UI components:
 - Banner Alerts: (e.g., a div with bg-yellow-100 border-1-4 border-yellow-400 text-yellow-700 p-4 Tailwind classes for a warning style) containing an alert icon and text. These are often dismissible a small "x" on the right to close the alert (which might snooze it for that session).
 - **Countdown Badges:** (could use Tailwind badge styles like px-2 py-1 rounded bg-green-100 text-green-800 text-xs font-medium for normal, switching to bg-red-100 text-red-800 when critical). These badges appear next to task titles or in detail headers. Some implementations use a small progress bar under the card to visually show how far through the SLA we are, but a numeric countdown is more explicit.
 - Icons: Alongside time text, icons from a library (like Heroicons) can convey urgency: a green check or clock for on track, an exclamation for warning, a fire icon for breached – but always with text for clarity.
 - We also ensure these alerts meet contrast and visibility standards; e.g., the yellow we choose for warning has sufficient contrast with white text or we outline it with a darker color so it's readable 18.

This screen-by-screen breakdown shows that each interface in the app is purpose-built for the user's role and needs, emphasizing clarity, quick feedback, and guided interactions. Components from Tailwind UI and shadcn/ui are utilized to accelerate development: for instance, ready-made **modals**, **dropdowns**, **toasts/notifications**, **avatars**, and **badges** from those libraries ensure a consistent and accessible design without reinventing the wheel.

User Journey Flows for Each Role

Super Admin (Owner) Journey

1. **Login and Dashboard:** The Super Admin logs in via the login page. After authentication, they are routed to the Admin Dashboard which presents an overview of all ongoing product tasks 1. They immediately see high-level metrics (e.g., how many tasks are in each stage) and any alert banners if there are pressing issues like SLA breaches. For example, a banner might warn "3 tasks have exceeded SLA" 7, prompting the Admin to take a look. The Admin can scan the Kanban board to get a sense of workflow health – columns with too many tasks or red-highlighted overdue timers indicate bottlenecks.

- 2. **Monitoring & Assignment:** The Admin notices a new product task in the "New" column. They click "Add New Product" to initiate a task themselves (or they see one that an Editor created but not yet assigned). They fill out the product form or verify the details if it's already filled. As a Super Admin, they have the ability to assign tasks or reassign owners: for instance, they might set an Editor and a Warehouse Manager for the new task via dropdowns on the task detail. Upon saving, the Editor and WM get notifications that a task is assigned to them 6 . The Admin's view of that task updates to show who is responsible.
- 3. **Overseeing Workflow:** As tasks progress, the Admin uses the Kanban to oversee. They might switch to a **List/Report view** to see all tasks in a table with sortable columns (to quickly find any overdue tasks). Suppose one task is lingering in "Ready for Review" for 2 days (beyond SLA). The interface shows the timer in red "Overdue by 1d" on that card, and possibly the card is outlined in red for emphasis. The Admin clicks that task to investigate. In the task detail, they see the comments or lack thereof perhaps the Auditor left feedback but the Editor hasn't addressed it. The Admin can use the **Activity Log** to see that "Auditor requested changes 2 days ago, Editor has not updated since" ¹⁴. The Admin could then leave a comment tagging the Editor ("@editor Please address the feedback ASAP") or reassign the task to another Editor if needed (using an assignee dropdown). Because of their permissions, the Admin can perform any action: edit fields directly if something is minor, or adjust deadlines (maybe extend the SLA if justified) by editing the due date field. These actions are all logged.
- 4. **Approving & Publishing:** Once an Editor finishes a product and an Auditor has given the green light (i.e., all checklist items checked and no outstanding issues), the task moves to the final stage awaiting Admin approval. The Admin gets a **notification** "Product X is ready for approval" 33. They click the notification which opens the task detail. They review the QA checklist (all items are checked) and skim through the product details. Satisfied, the Admin clicks "**Approve & Publish**". A confirmation dialog pops up ("This will publish the product to the live store. Continue?"). They confirm, triggering the integration that pushes the product to Shopify. A loading indicator shows the progress. After completion, a success message "Product published successfully" appears. The task card moves to the "Completed" column on the Kanban. The Admin's dashboard stats update (e.g., Pending Approval count decreases).
- 5. **Managing Exceptions:** If something goes wrong during publish (say the Shopify API returns an error), the Admin sees an error alert with details. They might retry or resolve the issue (e.g., missing required Shopify field). The UI in this case would display the error message in context (maybe in a modal or banner) like "Error: Product title already exists on store" and allow editing to fix it, demonstrating error handling best practices with clear, constructive messages ³⁴. The Admin corrects the title and tries again, then succeeds.
- 6. **Administration & Settings:** Outside the direct workflow, the Admin also uses the app to manage users and settings. They navigate to **User Management** (likely via a sidebar link). There, they see a list of users by role. If the Admin wants to add another Auditor or Editor, they fill a small form (name, email, role) and send an invite. The UI for this uses the same form principles (validation, feedback on success). They might also adjust workflow settings e.g., define SLA durations for each stage. Suppose they go to *Settings > Workflow Stages*: they see each stage name and a field for SLA (hours/days). The Admin changes "Review stage SLA" from 2 days to 3 days based on capacity. On saving, the system updates and these values will reflect in the countdown timers for new tasks ²⁶.

Throughout, the Admin's journey emphasizes their broad visibility and control, ensuring they can intervene to maintain flow and adjust configurations as needed. The UI supports this with comprehensive access and clear indications of system status (like showing all timers, all roles' tasks) so the Admin is never in the dark about what's happening.

Warehouse Manager Journey

- 1. **Login to WM Dashboard:** The Warehouse Manager logs in and is taken to their Dashboard. They immediately see a summary like "**Items awaiting your action: 3**". The Kanban on their screen is filtered to show tasks in the "Warehouse" stage, such as "Product A waiting for dimensions/weight" and "Product B waiting for stock entry". Each card might include a note of what's needed (possibly in the description or as a subtask list). The WM notices one of the cards has a yellow warning icon hovering it shows "Due in 5 hours" indicating that task's SLA will breach soon ²⁵. This prioritization cue tells them to handle that item first.
- 2. **Processing a Task:** The WM clicks on the urgent task, opening the **task detail**. They see the product details filled by the Editor (title, description, etc.), but certain fields are highlighted for them to fill (maybe visually indicated with a blue outline or a subtle "\(\neq\)" icon meaning "Action required here"). These fields are under an **Inventory & Shipping** section, including weight, dimensions, SKU, initial stock count, and any warehouse location info. The WM enters the values carefully. One field (e.g., weight) is required; if they try to mark the task done without it, the UI will show "Weight is required" in red ⁹, so they make sure to fill it. They double-check everything, perhaps ticking an informal checklist in their head (if it's not formalized in UI).
- 3. Marking Complete: Once all warehouse fields are entered, the WM marks their part complete. The UI offers a "Mark Warehouse Step Complete" button (or if they simply drag the task card to the next column "Ready for Review", the system could infer the same). Let's say they hit the button. Immediately, the task detail fields become read-only for them (since their job is done) and a timestamp is recorded (in the history: "Warehouse Manager X completed warehouse update on [time]"). The card moves to the next stage (e.g., Ready for Review for Auditor). The WM sees a confirmation toast "Warehouse data saved and task forwarded to review." They navigate back to their dashboard the card is no longer in their "To Do" column, reducing their count by one.
- 4. **Handling Next Tasks:** The WM continues with other tasks in queue. Perhaps the next one is not as urgent (green timer "Due in 2 days"), but they proceed anyway. In this case, they find an issue maybe the Editor's description mentions an item that the warehouse hasn't actually received yet. The WM uses the **comment** function to flag this: they open the task detail's comment section and write "Item not found in inventory is stock confirmed?," tagging the Editor or Admin. This communication ability through comments ensures any discrepancies are caught early. The Editor receives a notification of this comment. Meanwhile, the WM might put that task aside (since they can't complete it without stock confirmation). The UI might allow them to leave it in the current stage but now it's effectively blocked. The Kanban card could show a small "blocked" icon. The WM's action of commenting is logged, and the Admin might also see it and intervene if needed.
- 5. **Responding to Notifications:** Suppose later the Editor clarifies or the Admin updates the stock and replies. The WM gets a notification "Comment from Admin on Product B." They check the task, see the resolution ("Stock arrived, go ahead") and then finish entering the data. This iterative loop is

facilitated by the UI's **notification center** and clear highlighting of which tasks have unread comments (maybe the card has an icon or different border if new comments exist).

- 6. **SLA Awareness:** If any task starts creeping towards SLA, the WM's dashboard banner might change from green to yellow. For example, "1 task due soon" banner appears in the morning. The WM can click that banner which filters the list to the urgent task. In a worst-case scenario where a task actually breaches (maybe they were waiting on info and time elapsed), the banner turns red "1 task overdue!" and the task card is clearly marked overdue. The WM might notify the Admin if the delay is beyond their control. The UI's prominent alerts ensure the WM cannot overlook a deadline this fosters personal accountability and also triggers team conversations for relief if needed ³⁵ ¹⁷ (for instance, Admin might assign another WM or extend the deadline if appropriate).
- 7. **Completion and Next Steps:** At any given time, once the WM finishes all tasks in their queue, their dashboard might show an empty state or just the completed tasks. They can log out or await further assignments. The design might even include a friendly message like "All caught up! No pending warehouse tasks." This gives a sense of accomplishment. The WM's journey is all about quickly identifying what needs their attention (hence the visual timers and filtered views) and easily inputting data (with forms optimized for numeric entry and scanning). The UI ensures they spend minimal time on the tool and more on the actual physical workflow, by being straightforward and responsive (no long page loads ideally all data is pre-fetched so clicking a task opens details instantly, perhaps using React's state rather than a full page refresh).

Editor Journey

- 1. **Login and View Tasks:** An Editor logs in and lands on the Editor Dashboard. They see a **"My Tasks"** list or Kanban highlighting what they need to work on. Let's say Editor Alice has 2 tasks: one new product to create, and one returned for revisions. The UI clearly distinguishes these: the *new task* might be under "To Do" or "Drafts", and the *revision task* under "Needs Changes" with a red badge indicating action required. Alice first clicks the new product task or the "Add Product" button to start a fresh entry.
- 2. Creating a New Product: The Editor is taken to the Product Upload Form. She fills in the Product Name, Category, and Description. She uploads images via the drag-and-drop interface as she adds an image, a thumbnail appears. One of the images fails to upload because it's above size limit; the UI immediately shows an error next to that file "Image too large (max 5MB)" 9. She removes or replaces it with a smaller image. She continues to fill price and other details. If she misses a required field and tries to submit, the form won't proceed and the missed field gets an error highlight, so she corrects it. Once everything is filled, she hits Save Draft. The form saves (green check or message confirms "Draft saved" briefly). Now, before submitting for review, the QA Checklist is presented (either automatically or she navigates to it).
- 3. QA Checklist Completion: Alice sees the checklist items for quality assurance. She goes through each: checks spelling in the description (perhaps running spell-check or just manually), verifies images are correct, ensures pricing matches the source info, etc. She clicks each checkbox on the list as she verifies it. The UI indicates progress (e.g., "4/5 completed..." and finally "All items completed"). The "Submit for Review" button becomes enabled after the last item is checked. She clicks Submit for Review. At that moment, the task's status changes to Ready for Review. The Editor's UI might give

a confirmation like a modal saying "Submitted! Your product is now awaiting approval." The product card moves from her "Draft" column to a "In Review" column (or disappears from her active list and maybe appears under a separate filter "Awaiting Review"). She cannot edit it further unless it's returned, which the UI enforces by locking the fields (if she tries to open it after submission, it's read-only for her, perhaps with a note "Locked pending review").

- 4. **Working on Revisions:** Next, Alice addresses the other task that was sent back for changes. On her dashboard, that task card has a flag or comment icon indicating there's feedback from the Auditor/ Admin. She clicks it and opens the detail. At the top, she sees an **alert** or highlighted text from the Auditor: e.g., "Changes Requested: The description contains unverified claim, please update." The UI might surface this comment in a red callout box for visibility, or she might click a "Comments" tab to read the discussion. She reviews the QA checklist one item might be unchecked by the Auditor (if they had their own checks), such as "Compliance check failed" which clearly points to the issue. Alice edits the description to remove the unverified claim. She then maybe replies in a comment, "Updated the description as requested." She re-checks any relevant checklist item if needed. Then she hits **Resubmit** (the UI could have replaced the original Submit button with Resubmit since this is not the first submission). The task goes back to *Ready for Review*. She'll see that the card moves out of "Needs Changes" back into the "Review" column.
- 5. **Managing Multiple Tasks:** Suppose Alice has multiple drafts in progress. The Editor Dashboard might allow her to sort by due date or priority. She sees that one of her tasks is due tomorrow (maybe a small deadline shown on the card). She prioritizes finishing that one first. The UI's cues like due dates and any SLA countdown ("Due in 8h") help her manage time. If an SLA is about to breach while she's editing, perhaps the app shows a subtle warning in the form header ("This task is due soon, try to submit promptly"). However, if she does breach an SLA, she might get an immediate notification or email saying "Task X is overdue. Please complete it as soon as possible." This motivates quick action. In case she's truly unable to finish, she could communicate via comments or ask the Admin for extension (the Admin might extend the due date in the system).
- 6. **Collaboration and Handoffs:** Throughout the Editor's process, the UI fosters collaboration. For example, if she needs input from the Warehouse Manager for a product detail, she might tag them in a comment: "@WM Please confirm if product weight is correct." The WM will see that in their notifications. Meanwhile, her own interface shows that a comment was sent (maybe the comment icon changes color). While waiting, she could continue working on another task her dashboard lets her easily switch context by clicking into different tasks. The state of each form is preserved (since draft saving is possible). If the app is advanced, it might allow having two task panels open in parallel (maybe not, but she can save and close one, then open another).
- 7. Wrapping Up: Once an Editor's task is fully approved and completed (moved to Done by Admin), it may drop off their active dashboard. They might access it via a "Completed" filter if needed (to see published content for reference). The UI might celebrate a bit, e.g., " Product ABC has been approved and published!" message, to give positive feedback. The Editor then continues with the next items assigned.

The Editor's journey highlights the importance of **immediate feedback and guidance** in the UI: form validations to prevent mistakes ⁹, checklists to ensure completeness, and notifications/comments to loop in others quickly. By following these cues, Editors can confidently produce high-quality product listings,

knowing the system will catch omissions and notify them of required actions. The result is a smoother handoff to the audit/approval stage and fewer back-and-forth cycles.

Auditor Journey

- 1. **Login to Auditor Dashboard:** The Auditor logs in and the Auditor Dashboard loads, showing all tasks currently in the *Review* (or *QA*) stage that need their attention. There might be a list titled "Pending Reviews" with items like "Product A awaiting audit" and "Product B awaiting audit". The Auditor can see at a glance how many are pending; if the number is high, they might prioritize by how long they've been waiting (the UI could sort by time in stage, or highlight ones close to SLA for review). Assume it's a manageable number say 2 pending tasks.
- 2. **Reviewing a Product:** The Auditor clicks the first pending task. The task detail view shows the product data entered by the Editor and any warehouse info. All fields are read-only, but the Auditor examines them carefully. At the top or side, the **QA Checklist** is visible with all items the Editor checked ²². For each checklist item, the Auditor mentally verifies it. If everything truly looks good (images are high quality, etc.), the Auditor will approve. In the UI, because the Auditor is read-only for content, the *approval action* might be done by notifying the Admin, or if the process allows, the Auditor might have an "Approve" button that in effect marks the task as audited/approved (perhaps moving it to an "Approved by Auditor" interim state or directly to Completed if Admin approval is not separate). Let's say in this workflow the Admin still does final publish, so the Auditor's role is to mark it as "Audited OK". The Auditor clicks an "Approve QA" button. A dialog asks for confirmation (and perhaps a digital signature or comment, though not required). The Auditor confirms. The task's status could change from *Ready for Review* to *Auditor Approved* (which might just be a tag for Admin to see). The UI then either removes it from the Auditor's pending list or moves it to a "Reviewed" list. The Auditor's dashboard count of pending reviews goes down by one.
- 3. **Finding Issues:** The Auditor opens the second task. On checking, they find an issue: say an image is low resolution or the description has a prohibited claim. The Auditor must **reject or request changes**. They click **"Request Changes"** (or "Reject") button. A modal appears asking for a note. The Auditor types: "Image #2 is low resolution and doesn't meet quality standards. Please replace it with a higher-res image." They submit this. The system logs this feedback and changes the task status back to an "In Revision" state assigned to the Editor. On the Editor's dashboard, that task will now show up in their Needs Changes column, with the comment attached. The Auditor sees the task leave their "Pending" list. Possibly, it moves to a separate list "Awaiting Revisions" on their side so they know it's out for rework.
- 4. **Audit Trail & Compliance:** Perhaps weekly, the Auditor might also review completed tasks for compliance or for records. The Auditor Dashboard could have a way to search or filter all tasks, including completed ones. If an external auditor or compliance check is needed, our Auditor user can locate a product and inspect its details even after it's live. They have read-only access to everything, including the **activity log** of who approved it ¹⁴. For instance, if a question arises "Who approved Product X?", the Auditor can find Product X (maybe via a search bar), open it, and see in the history "Approved by Admin on DATE" and that all QA checklist items were completed ¹⁴. This transparency fosters trust and accountability, as the Auditor can verify the process was correctly followed.

- 5. **Coordinating with Admin:** In cases of severe issues or compliance failures, the Auditor might contact the Admin outside the system or via a comment tag in the system. For example, if a product absolutely cannot go live, the Auditor might tag Admin in a comment: "@Admin This product fails compliance. Suggest rejecting it entirely." The Admin would then see that and could decide to remove/cancel the task. The UI in such a scenario would allow the Admin to move the card to an "Rejected" or "On Hold" column, which the Auditor would see.
- 6. **Accessibility in Auditor's tasks:** The Auditor often has to deal with reading large amounts of information (product text, etc.). The UI supports this by having scalable font (they might zoom in and the layout still holds). Also, if the Auditor uses any assistive tech (maybe not likely, but possibly screen reader if someone is tasked with QA and has low vision), the semantic structure is in place so they can navigate through headings, lists, etc., of the detail view easily ³⁶ ³⁷. Keyboard shortcuts might not be as critical for them as for Editors, but basic ones like using arrow keys to page through images or Tab to jump to the next comment are helpful.
- 7. Final Outcome: Once a task is audited and approved, the Auditor's part is done. They will see it in the Completed section if they ever need to reference it. If the Admin publishes it, great. If it's sent back and later resubmitted, the Auditor gets a notification ("Product B resubmitted by Editor") and it shows up again in their Pending list. They re-review the specific fixes. Perhaps the UI helps highlight what changed (though not explicitly mentioned, a nice-to-have is showing diffs for text changes or marking "updated" fields). If not, the Auditor will manually verify the issues were resolved. Then they approve. This iterative loop can repeat until everything is satisfactory. Thanks to the structured checklist and comment system, each cycle is clear and focused on specific items rather than vague feedback, speeding up the process.

The Auditor's journey emphasizes **thoroughness and clarity**. The UI is designed to give them all the info needed without editing clutter. It also logs every action for later review ¹⁴. This not only helps the Auditor do their job but also creates a record that the Super Admin can review to see how many tasks were sent back, how often, and for what reasons (useful for process improvement). The **design rationale** behind giving Auditors a dedicated read-only interface is to prevent accidental changes and to underline their role as gatekeepers of quality – the app's design supports that by literally not letting them change content, only to pass judgement via approvals or rejections, which enforces a clear separation of duties.

UX Best Practices Implemented

Mobile-Responsive Design: The application is built mobile-first, ensuring key screens and components adapt seamlessly to smaller devices ³⁸ ³⁹. The layout uses responsive Tailwind utility classes (like md:flex or lg:grid-cols-3) so that on a phone, side-by-side panels (e.g., sidebar and main content) collapse into a vertical stack, and the Kanban board can be scrolled horizontally or switched to a vertical list for easier viewing. All interactive elements are sized and spaced for touch input ¹⁹ – buttons have ample padding, links are not tiny, and form inputs take up full width on small screens to maximize tappable area. We also hide non-critical information on smaller screens to reduce clutter, using progressive disclosure (for example, in list items we might hide timestamps or some metadata on mobile and show just essential text, since that detail can be viewed on tap or on larger screens). Images and media are made responsive via Tailwind's utility classes and the natural element behavior, ensuring they scale down without breaking layout. Overall, the design meets users where they are: whether on a desktop in the office or checking a task on a phone in the warehouse, the UI remains usable and clear.

Keyboard Accessibility: Every part of the interface can be accessed via keyboard alone, which benefits both power users and those with motor impairments ¹⁰. We ensure a logical tab order throughout: the navigation menu is first, then main content links or buttons, etc., and we manage focus states especially when modals open (focus moves inside the modal, and returns to the trigger when closed). All interactive controls (buttons, form fields, drag handles) have distinct focus indicators – we use Tailwind's focus utilities to add visible outlines (e.g., a 2px blue ring) around focused elements ¹³. This way, an Editor tabbing through a form can always see which field is active, or an Admin using arrow keys on the Kanban knows which card is focused. Additionally, we implement some keyboard shortcuts for efficiency: for instance, pressing "N" could open the "Add Product" form (with appropriate hints in the UI), or arrow keys navigate Kanban columns when a card is focused (this might be a progressive enhancement). We also support the **Enter** key to activate selected items (opening a task detail when focused) and **Escape** to close modals or dropdowns. These practices align with WCAG 2.1 guidelines for keyboard accessibility, ensuring no functionality is mouse-exclusive ⁴⁰.

Color Contrast & Readability: The app adheres to accessible color contrast ratios for all text and interface elements. We chose a light background and dark text for most content (e.g., black or dark gray text on white) which typically provides a contrast ratio well above 4.5:1 as required. Where we use lighter text (like placeholder text or secondary info), we ensure the size and weight are sufficient or use a slightly darker shade to meet at least 3:1 for larger text 18. For example, text in disabled inputs is a mid-gray but still readable. Our color palette for statuses (green, yellow, red indicators, etc.) is calibrated for contrast too e.g., the red used for errors is not a faint red on white but rather a bold shade with white text or a dark icon so that it's noticeable. We also use **font sizes** that promote readability: the base font is around 1rem (16px) for body text, and we rarely go below 0.875rem (14px) for any text except perhaps subtle timestamps. Headings are appropriately larger (e.g., 1.25rem or more) to create a clear hierarchy. There is sufficient lineheight (like leading-relaxed) to avoid cramped lines, which helps readability especially in longer descriptions or comments. We tested common pages with contrast checker tools to ensure that even the light gray text (like on secondary buttons or form hints) meets standards 41. For users with visual strain, the design avoids pure white backgrounds by using off-white or very light gray in large areas to reduce glare, and an optional dark mode could be provided (thanks to Tailwind's support for dark variants) for those who prefer it, although that might be a future enhancement.

Feedback & Status Cues: The app provides clear feedback for user actions and system status at every step of interaction 9. When an action is processing (such as saving a form, uploading a file, or moving a task), we give a visible indication: e.g., a loading spinner icon on the button, or a subtle overlay with a spinner for whole-page actions. This prevents the user from wondering if their click registered, and avoids duplicate submissions. After an action completes successfully, a confirmation is displayed. We use non-intrusive toasts (small notification pop-ups) or inline messages for this. For example, after saving edits to a task, a green toast at the bottom says "Changes saved." Or upon submitting a product for review, an inline banner in the detail view might say " Submitted for review" which remains until the user closes it. This positive reinforcement confirms the action and then lets them continue. In case of errors, our messages are specific and helpful 34 . Instead of a generic "Error occurred," the interface will say "Network error: unable to save. Check your connection and try again," or "Validation error: Price must be a number." These errors are displayed near the relevant context – form errors near the field or as a summary at top if global, highlighted in red with an icon to draw attention 42. We also keep these messages in user-friendly language (no technical jargon or codes) 43. In terms of system status cues, if data is loading on initial page render, we use skeleton screens or spinners to indicate that (for instance, gray animated blocks where content will appear). This sets user expectation that content is on its way. Interactive elements also provide immediate

visual feedback: buttons have hover and active states (e.g., darkening or pressing in effect), so the user knows it's clickable and when it's being clicked. Dragging a Kanban card provides feedback by the card lifting with a shadow and drop targets possibly highlighting (showing where it can be dropped).

Furthermore, the system includes **notifications** for asynchronous events – e.g., if an Editor is on their dashboard and the Admin approves a task, a toast or notification might appear "Product X was approved by Admin" to keep them informed, even if they didn't refresh the page. All these feedback mechanisms align with Nielsen's Heuristic of visibility of system status, thereby increasing user trust in the application.

Consistent and Intuitive Design: Across the application, we maintain consistency in layouts and controls to reduce the learning curve 44. For instance, all forms (product form, user form, settings form) use the same design language: labels above inputs, required fields indicated in the same way, primary action buttons on the right, secondary on the left. The Kanban and task lists use a uniform style for cards so that once you understand one card, any list's cards make sense. Icons and colors are used uniformly: a red outline always means an error or required attention, green means success or completed, blue is informational. We leverage a design system (shadon/ui and Tailwind) to keep typography, spacing, and components standard. Navigation menus and page headers look and behave the same in each section so users don't get lost. If an Editor goes from their dashboard to the task detail, the header and overall look remain consistent; they know they're still in the same app. We also follow common UX conventions: a logo at top-left that navigates to home/dashboard, a user avatar at top-right for profile/logout, a gear icon for settings, etc., so users can rely on prior experience. Interactive controls have clear affordances - buttons look like buttons (with solid backgrounds or borders), clickable text is usually underlined or changes color on hover, draggable items have a handle or move cursor on hover. We avoid deceptive or unexpected interactions (no hidden functions that aren't explained). This consistency is validated by user feedback and reduces errors due to misunderstanding.

Accessibility Considerations: Besides keyboard and contrast, we also ensure proper ARIA labels and roles where needed. For example, the Kanban board is marked up as a list with aria-label="Workflow board" and each column has aria-label="Stage: Draft (3 items)" to inform screen reader users. Important icons have aria-label or accompanying text (the delete/trash icon has a visually hidden label "Delete task" so it's announced). We've tested the app with screen reader navigation to ensure the reading order is logical. Additionally, components like modals use role="dialog" and have aria-modal="true" with focus trapping as recommended 45. We've also thought about users with cognitive considerations: the language in the app is plain and actionable. Instead of cryptic labels, we use simple terms ("Add Product" vs "New entry") and tooltips or help texts to clarify anything not obvious. Error messages not only state what's wrong but often how to fix it ("Image too large – max size 5MB. Please upload a smaller image."). For time displays, we give absolute times on hover in addition to relative times, so there's clarity.

Performance and Speed: Though not directly a "visible" UX feature, we know that performance impacts UX significantly ⁴⁶. We therefore optimize load times: bundling assets efficiently, possibly using code-splitting so heavy components (like rich text editor or image uploader) don't slow down pages that don't need them. We use lazy-loading for images (especially on dashboards with many product thumbnails) so off-screen images don't load until needed, boosting initial render speed ⁴⁷. Pages are designed to load data asynchronously and show partial UI (skeletons) quickly, to give a perception of speed. Quick, responsive interactions (e.g., instant field validation feedback) make the app feel snappy and reliable, contributing to a good user experience.

In summary, the UI/UX design follows best practices in responsiveness, accessibility, feedback, and consistency, creating an interface that is **usable, accessible, and efficient** for all user roles across devices. Every user action is met with an appropriate reaction from the system, keeping users informed and in control at all times ⁹ ⁴⁸. By adhering to these principles, we support users in focusing on their workflow tasks rather than struggling with the interface itself.

Design Rationale

Kanban for Visual Workflow Tracking: We chose a Kanban-style task board as the central metaphor for tracking product tasks because it provides an immediate visual overview of work in progress and its status ¹⁵. Unlike abstract lists or hidden statuses, a Kanban board lays out each stage of the workflow in a dedicated column, making it very clear how tasks flow from creation to completion. This transparency is crucial – it turns the process into something the whole team can see and understand at a glance ¹⁵. By looking at the board, team members and the Super Admin can quickly identify **bottlenecks** (e.g., many cards accumulating in "Review" stage) and **imbalances** (e.g., no tasks in "Drafting" meaning perhaps new product input has stalled) without generating reports or digging through data. In essence, the Kanban acts as a real-time dashboard of the workflow's health.

Furthermore, Kanban aligns well with our multi-role setup: each role can focus on their column(s), but also see the context of the whole process, fostering a sense of shared responsibility rather than siloed tasks ⁴⁹. The design of the Kanban board – with drag-and-drop and clear stage policies – encourages the team to engage with the process actively. It's not just a status monitor; it's a working tool where, for instance, moving a card to the next column is a tangible act of progression. This **tactile interaction** can psychologically reinforce ownership and satisfaction as tasks move towards Done.

Additionally, using Kanban means we can implement **Work-In-Progress (WIP) limits** per column to prevent overload. This is a conscious design choice to improve throughput and quality. By limiting how many tasks can sit in "In Progress" or "Review", we force the team to finish work at hand before starting new work ¹⁶. This practice surfaces issues early (e.g., if Editors keep hitting the WIP limit, it signals either they are overloaded or something upstream/downstream needs adjustment). The UI supports this by showing task counts and highlighting when limits are reached, prompting those "difficult conversations" about prioritization ¹⁶. In short, Kanban isn't just a pretty way to display tasks; it's a process-enforcing mechanism that aligns with lean principles – exposing process problems, facilitating team communication on flow, and ultimately improving efficiency and accountability ¹⁷.

Timers, Aging, and WIP Badges for Accountability: We integrated SLA countdown timers and aging indicators into the design to cultivate a culture of accountability and ensure time-sensitive tasks get the attention they need. The rationale is that simply assigning a due date is not enough – people need to **see time passing** relative to their tasks. A small badge that says "2 days left" gradually ticking down creates a subtle urgency and a personal commitment device. Team members are constantly reminded of their service level commitments every time they view the task, which nudges them to act before things become critical 7.

When tasks do age beyond expected limits, our design makes that explicit: cards change color or display "Overdue by X" badges. This visibility is key. By visualizing aging work, we turn what could become private procrastination into a transparent metric the whole team can see [31]. It's not about shaming individuals; it's about **identifying bottlenecks** or support needs in the process. Perhaps an Editor is overloaded and has

multiple overdue tasks – the Super Admin seeing red badges might decide to redistribute the workload. Or if tasks in QA are aging, maybe the criteria are too strict or the Auditor is stretched thin, signaling a need for process adjustment. The **Kanban Tool blog** aptly notes that tracking task age invites early interventions and collaborative problem-solving, rather than blame ³¹. Our design embraces that philosophy: aging indicators are there to prompt the question "Who can help get this moving?" rather than "Who's at fault?" ⁵⁰.

WIP badges (like labeling a card or column as WIP) and limits further this by making work quantity visible. If an Editor has 5 tasks in progress (and maybe we set a WIP limit of 3), the system will flag that. This creates a "natural pressure cooker" that forces the team to address overload issues transparently ⁵¹. Instead of quietly struggling with too many tasks, the UI's constraint pushes a conversation – perhaps the team collectively decides to pause new product launches until current ones are done, or another editor steps in to help, etc. By **forcing trade-off decisions in the open**, accountability shifts from individual blame to team-based resolution ¹⁷.

The **color-coding** of timers (green/yellow/red) is directly borrowed from known patterns in SLA management ⁵² ⁸ because it provides an instant visual cue of priority. Users don't need to read exact times on every card; a glance tells them which items are okay and which are in danger. This speeds up decision-making and prioritization (which is crucial in a fast-paced environment). Our rationale is that these visual timers act as a built-in discipline: they encourage timely completion by making the cost of delay visible (a card turning red is a clear signal of failure to meet SLA, prompting immediate action or escalation). They essentially create a **sense of accountability to the system** – when everyone can see a red overdue card, it usually compels the responsible person (or their manager) to address it quickly, ensuring nothing languishes unnoticed.

Visual Hierarchy & Layout for Clarity and Speed: The design of each screen has been carefully structured to present information in a clear hierarchy, allowing users to quickly find what they need and understand the state of affairs without reading every detail ⁴. We placed the most critical information "above the fold" on each page – for dashboards, that's key stats and alerts at the top ⁴; for task details, that's the task title, status, and any urgent indicators right at the top so users know immediately if something requires attention (like an overdue status or missing fields alert). Less critical details (like long descriptions, logs) are lower or hidden behind tabs, following a progressive disclosure approach ⁵³. This prevents users from being overwhelmed by too much data at once and lets them drill down only if needed, thus speeding up routine operations. An Admin can scan the top of their dashboard in seconds and know if all is well or if there's a fire to put out ⁴.

We leveraged **whitespace and grouping** intentionally to aid scanning ⁵. Sections are separated by whitespace or subtle lines, so the eye can parse the page in chunks (e.g., header, main content, sidebar). Related elements are grouped (like label-input pairs, or a task card with all its meta together) which reduces cognitive load in figuring out what belongs to what. On the Kanban, each column is a contained group – users can focus on one column at a time. On forms, we break fields into logical sections (with headings like "Basic Info", "Inventory") so that the user isn't faced with one long intimidating form. This follows the principle that **structure conveys meaning** – our layout essentially communicates which pieces of information are primary vs secondary.

Typography choices also reinforce hierarchy: larger, bolder text for titles and section headers, and smaller, regular text for details ⁵⁴. For example, in a task detail, "Product Name" might be 18px bold, whereas the

description text is 14px regular. This visual contrast lets a user quickly differentiate sections and pick out the important parts to read first ⁵⁵. We also use color and weight to highlight key data – like overdue counters in red bold draw the eye immediately.

The impetus behind these visual hierarchy decisions is to **maximize at-a-glance comprehension**, which is crucial when users have to navigate many tasks and make quick decisions. An effective hierarchy reduces the time to find information and thus speeds up the whole workflow ⁵⁶. For instance, an Auditor opening a task can instantly see if the checklist is all green or if there are red marks, without digging – that's due to our deliberate styling of status elements with strong visual weight. Similarly, the Super Admin's dashboard shows urgent alerts in a banner at the very top (full-width and colored), so even if they only have a second to look, they won't miss a critical warning. This orientation towards clarity and speed is in line with best practices for dashboard and admin design, which emphasize quick **scan-ability** and not making the user hunt for the vital numbers or alerts ⁴.

In our design process, we continuously asked: "How can we present this information so the user can grasp it in the least amount of time?" This led to decisions like using familiar **icons** (e.g., a bell for notifications, a flag for priority) as visual shorthand, aligning numeric data in tables for easy comparison, and ensuring interactive elements (buttons, links) stand out enough that users don't waste time wondering how to take action. We also maintained consistency in where to find things (e.g., always put primary actions in the topright or bottom-right) so that users develop muscle memory and confidence, acting faster over time due to interface predictability

Designing for Efficiency and Accuracy: Finally, underpinning all these rationale points is an overall goal: to make the user interface not only user-friendly but also a catalyst for efficient and accurate work. The Kanban fosters **efficient team coordination**, timers and alerts promote **timely action**, and the clean layout with strong hierarchy allows **faster decision-making**. By integrating UX best practices, we reduce user errors (for example, form validations and checklists prevent mistakes from ever reaching the Auditor)

9 and by giving immediate feedback, we ensure users can correct course quickly when something's off.

We also understand the psychological aspect – a well-organized, modern interface can make work feel less tedious and more in control. Using Kanban and visual indicators actually can **gamify** the experience slightly (moving a card to Done, clearing all alerts feels rewarding). The rationale here is that a pleasant UX can improve user engagement and willingness to follow the process correctly, thus improving data quality and overall workflow outcomes.

In conclusion, every element of this UI/UX design, from the macro-level choice of a Kanban board to the micro-level detail of a focus ring on a button, has been chosen to support the users in doing their jobs better and faster. It's a marriage of proven design principles and domain-specific needs: we applied known solutions like role-based dashboards 1, consistent navigation, and strong feedback loops, tailored to the context of product workflow management on Shopify. The result is a comprehensive interface that not only meets functional requirements but also creates a **transparent**, **accountable**, **and user-centered workflow environment** 57 58.

All these design decisions together transform what could be a complex, error-prone process into an intuitive experience where the UI itself guides users towards the desired outcomes: timely product launches with high quality, and a team that's informed, collaborative, and accountable at each step.

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