

SAAS Automation Documentation

WORKFLOWS PAGE AND COMPONENTS

⇒ File name and path: `src\\app\\(main)\\(pages)\\workflows\\page.tsx` :

1. Purpose:

`WorkflowPage` → Workflow management UI.

2. Key Functions/Props:

- `WorkflowPage` : Renders UI.
- `WorkflowButton` : Action button.
- `Workflows` : Main content.
- `Props` : Empty (extendable).

3. Dependencies:

• Imports:

- `React` (`'react'`).
- `WorkflowButton` (`'./_components/workflow-button'`).
- `Workflows` (`'./_components'`).

- **Exports:** `WorkflowPage` (default).

⇒ File name and path: `src\\app\\(main)\\(pages)\\workflows_actions\\workflow-connections.tsx` :

1. Purpose:

Server-side actions for workflow management (Google, Discord, Slack, Notion integrations).

2. Key Functions:

- `getGoogleListener` : Fetches Google resource ID for authenticated user.
- `onFlowPublish` : Updates workflow publish state.
- `onCreateNodeTemplate` : Saves templates for Discord, Slack, Notion.
- `onGetWorkflows` : Fetches workflows for current user.
- `onCreateWorkflow` : Creates a new workflow.
- `onGetNodesEdges` : Retrieves nodes and edges for a workflow.

3. Dependencies:

• Imports:

- `Option` (`@/components/ui/multiple-selector`).
- `db` (`@/lib/db`).
- `auth` , `currentUser` (`@clerk/nextjs/server`).

- **Exports:** All functions (`getGoogleListener` , `onFlowPublish` , etc.).

⇒ File name and path: `src\\app\\(main)\\(pages)\\workflows_components\\index.tsx` :

1. Purpose:

`Workflows` → Displays workflows or "No Workflows" message.

2. Key Functions/Props:

- `Workflows` : Fetches and renders workflows using `onGetWorkflows` .
- `Workflow` : Renders individual workflow details.
- `Props` : Empty (unused).

3. Dependencies:

- **Imports:**

- `React` (`'react'`).
- `Workflow` (`'./workflow'`).
- `onGetWorkflows` (`'../_actions/workflow-connections'`).

- **Exports:** `Workflows` (default).

⇒ File Name and path:

```
src\app\main\pages\workflows\_components\workflow-button.tsx :
```

1. Purpose:

`WorkflowButton` → Button to open a modal for creating workflows.

2. Key Functions/Props:

- `WorkflowButton` : Opens a modal with `Workflowform` on click.
- `handleClick` : Triggers modal opening with workflow creation form.
- `Props` : Empty (unused).

3. Dependencies:

- **Imports:**

- `Workflowform` (`@/components/forms/workflow-form`).
- `CustomModal` (`@/components/global/custom-modal`).
- `Button` (`@/components/ui/button`).
- `useModal` (`@/providers/modal-provider`).
- `Plus` (`lucide-react`).
- `React` (`'react'`).

- **Exports:** `WorkflowButton` (default).

⇒ File name and path: `src\\app\\(main)\\(pages)\\workflows_components\\workflow.tsx` :

1. Purpose:

`Workflow` → Displays workflow details with a toggle for publish status.

2. Key Functions/Props:

- `Workflow` : Renders workflow card with name, description, and publish toggle.
- `onPublishFlow` : Placeholder for publish/unpublish functionality (commented out).
- **Props:**
 - `name` : Workflow name.
 - `description` : Workflow description.
 - `id` : Workflow ID.
 - `publish` : Publish status (boolean or null).

3. Dependencies:

- **Imports:**
 - `React` (`'react'`).
 - `Card` , `CardDescription` , `CardHeader` , `CardTitle` (`@/components/ui/card`).
 - `Link` (`next/link`).
 - `Image` (`next/image`).
 - `Label` (`@/components/ui/label`).
 - `Switch` (`@/components/ui/switch`).
- **Exports:** `Workflow` (default).

⇒ File name and path: `src\\app\\(main)\\(pages)\\workflows\\editor\\[editorId]\\page.tsx` :

1. Purpose:

`Page` → Workflow editor page with canvas and provider contexts.

2. Key Functions/Props:

- `Page` : Renders workflow editor with `EditorCanvas` wrapped in providers.
- **Providers:**
 - `EditorProvider` : Manages editor state.
 - `ConnectionsProvider` : Manages connection state.
- `Props` : Empty (unused).

3. Dependencies:

- **Imports:**
 - `ConnectionsProvider` (`@/providers/connections-provider`).
 - `EditorProvider` (`@/providers/editor-provider`).
 - `React` (`'react'`).
 - `EditorCanvas` (`./_components/editor-canvas`).
- **Exports:** `Page` (default).

⇒ File name and path: `src\\app\\(main)\\(pages)\\workflows\\editor\\[editorId]_actions\\workflow-connections.tsx` :

1. Purpose:

Server-side actions for saving and publishing workflows.

2. Key Functions:

- `onCreateNodesEdges` : Updates workflow nodes, edges, and flow path in the database.
- `onFlowPublish` : Updates workflow publish state in the database.

3. Dependencies:

- **Imports:**

- `db (@/lib/db).`

- **Exports:**

- `onCreateNodesEdges` : Saves workflow nodes and edges.
- `onFlowPublish` : Updates workflow publish status.

⇒ File Type: `src\\app\\(main)\\(pages)\\workflows\\editor\\[editorId]_components\\action-button.tsx` :

1. Purpose:

`ActionButton` → Renders action buttons for testing and saving templates for Discord, Notion, and Slack integrations.

2. Key Functions/Props:

- `ActionButton` : Dynamically renders buttons based on the current service (Discord, Notion, Slack).

- **Functions:**

- `onSendDiscordMessage` : Sends a test message to Discord.
- `onStoreNotionContent` : Tests and stores Notion content.
- `onStoreSlackContent` : Sends a message to Slack.
- `onCreateLocalNodeTempate` : Saves templates for the current service.

- **Props:**

- `currentService` : Current integration service (Discord, Notion, Slack).
- `nodeConnection` : Connection details for the service.
- `channels` : Slack channels (optional).
- `setChannels` : Function to update Slack channels (optional).

3. Dependencies:

- **Imports:**

- `React`, `useCallback` (`'react'`).
- `Option` (`./content-based-on-title`).
- `ConnectionProviderProps` (`@/lib/types`).
- `usePathname` (`next/navigation`).
- `Button` (`@/components/ui/button`).
- `onCreateNodeTemplate` (`../../../../_actions/workflow-connections`).
- `toast` (`sonner`).
- `onCreateNewPageInDatabase` (`@/app/(main)/(pages)/connections/_actions/notion-connection`).
- `postMessageToSlack` (`@/app/(main)/(pages)/connections/_actions/slack-connection`).
- `postContentToWebHook` (`@/app/(main)/(pages)/connections/_actions/discord-connection`).

- **Exports:** `ActionButton` (default).

⇒ File and path: `src\app\main\pages\workflows\editor\editorId_components\content-based-on-title.tsx` :

1. **Purpose:**

`ContentBasedOnTitle` → Renders content and UI based on the selected node's title (e.g., Discord, Slack, Notion, Google Drive).

2. **Key Functions/Props:**

- `ContentBasedOnTitle` : Dynamically renders UI based on the selected node's title.
- **Props:**
 - `nodeConnection` : Connection details for the selected service.
 - `newState` : Current editor state.

- `file` : Google Drive file details.
- `setFile` : Function to update the file state.
- `selectedSlackChannels` : Selected Slack channels.
- `setSelectedSlackChannels` : Function to update selected Slack channels.

- **Functions:**

- `useEffect` : Fetches Google Drive file data on mount.
- `onContentChange` : Updates content for the selected service.

3. Dependencies:

- **Imports:**

- `AccordionContent` (`@/components/ui/accordion`).
- `ConnectionProviderProps` (`@/providers/connections-provider`).
- `EditorState` (`@/providers/editor-provider`).
- `nodeMapper` (`@/lib/types`).
- `React` , `useEffect` (`'react'`).
- `Card` , `CardContent` , `CardDescription` , `CardHeader` , `CardTitle` (`@/components/ui/card`).
- `Input` (`@/components/ui/input`).
- `onContentChange` (`@/lib/editor-utils`).
- `GoogleFileDetails` , `GoogleDriveFiles` (`./google-file-details` , `./google-drive-files`).
- `ActionButton` (`./action-button`).
- `axios` (`axios`).
- `toast` (`sonner`).
- `getFileMetaData` (`@/app/(main)/(pages)/connections/_actions/google-connection`).

- **Exports:** `ContentBasedOnTitle` (default).

⇒ File and path:

```
src\\app\\(main)\\(pages)\\workflows\\editor\\  
[editorId]\\_components\\custom-handle.tsx :
```

1. Purpose:

`CustomHandle` → Custom handle component for node connections with validation logic.

2. Key Functions/Props:

- `CustomHandle` : Renders a custom handle with connection validation logic.
- **Props:**
 - `props` : Extends `HandleProps` with optional `style` .
- **Validation Logic:**
 - Ensures valid connections based on source and target node states.
 - Prevents multiple connections to the same target.
 - Allows unlimited connections for "Condition" type nodes.

3. Dependencies:

- **Imports:**
 - `useEditor` (`@/providers/editor-provider`).
 - `Handle` , `HandleProps` , `useStore` (`@xyflow/react`).
 - `React` , `CSSProperties` (`'react'`).
- **Exports:** `CustomHandle` (default).

⇒ File and path: `src\\app\\(main)\\(pages)\\workflows\\editor\\
[editorId]_components\\editor-canvas-card-icon-helper.tsx :`

1. Purpose:

`EditorCanvasIconHelper` → Renders icons for different workflow node types.

2. Key Functions/Props:

- `EditorCanvasIconHelper` : Returns an icon based on the `type` prop.
- **Props:**
 - `type` : Type of the workflow node (`EditorCanvasTypes`).

3. Dependencies:

- **Imports:**
 - `React` (`'react'`).
 - Icons (`Calendar` , `CircuitBoard` , `Database` , etc.) from `lucide-react` .
 - `SlackIcon` (`@/lib/icons/slack-icon`).
 - `EditorCanvasTypes` (`@/lib/types`).
- **Exports:** `EditorCanvasIconHelper` (default).

⇒ File name and path: `src\\app\\(main)\\(pages)\\workflows\\editor\\[editorId]_components\\editor-canvas-card-single.tsx` :

1. Purpose:

`EditorCanvasCardSingle` → Renders a single workflow node card with handles, icons, and status indicators.

2. Key Functions/Props:

- `EditorCanvasCardSingle` : Displays a node card with title, description, and dynamic status badge.
- **Props:**
 - `data` : Node data of type `EditorCanvasCardType` .
- **Handles:**
 - `CustomHandle` : Renders connection handles for source and target.
- **Dynamic Status:**

- Randomly assigns a status color (green, orange, red) to the node.

3. Dependencies:

- **Imports:**

- `EditorCanvasCardType` (`@/lib/types`).
- `useEditor` (`@/providers/editor-provider`).
- `React`, `useMemo` (`'react'`).
- `Position`, `useNodeId` (`@xyflow/react`).
- `EditorCanvasIconHelper` (`./editor-canvas-card-icon-helper`).
- `CustomHandle` (`./custom-handle`).
- `Badge` (`@/components/ui/badge`).
- `Card`, `CardDescription`, `CardHeader`, `CardTitle` (`@/components/ui/card`).
- `clsx` (`clsx`).

- **Exports:** `EditorCanvasCardSingle` (default).

⇒ File name and path: `src\app\main\pages\workflows\editor\`
`[editorId]_components\editor-canvas-sidebar.tsx`:

1. Purpose:

`EditorCanvasSidebar` → Sidebar for workflow editor with tabs for actions and settings.

2. Key Functions/Props:

- `EditorCanvasSidebar`: Displays draggable action cards and node settings.
- **Props:**
 - `nodes`: Array of `EditorNodeType` for filtering actions.
- **Tabs:**
 - **Actions:** Displays draggable cards for triggers and actions.

- **Settings:** Displays account connections and expected output for selected nodes.
- **Dynamic Behavior:**
 - Fetches Slack channels and updates connections based on node state.

3. Dependencies:

- **Imports:**

- `EditorCanvasTypes`, `EditorNodeType` (`@/lib/types`).
- `useNodeConnections` (`@/providers/connections-provider`).
- `useEditor` (`@/providers/editor-provider`).
- `Tabs`, `TabsContent`, `TabsList`, `TabsTrigger` (`@/components/ui/tabs`).
- `React`, `useEffect`, `useState` (`'react'`).
- `Separator` (`@/components/ui/separator`).
- `CONNECTIONS`, `EditorCanvasDefaultCardTypes` (`@/lib/constants`).
- `Card`, `CardDescription`, `CardHeader`, `CardTitle` (`@/components/ui/card`).
- `fetchBotSlackChannels`, `onConnections`, `onDragStart` (`@/lib/editor-utils`).
- `EditorCanvasIconHelper` (`./editor-canvas-card-icon-helper`).
- `Accordion`, `AccordionContent`, `AccordionItem`, `AccordionTrigger` (`@/components/ui/accordion`).
- `RenderConnectionAccordion` (`./render-connection-accordion`).
- `RenderOutputAccordion` (`./render-output-accordion`).
- `SailthreadStore` (`@/store`).

- **Exports:** `EditorCanvasSidebar` (default).

⇒ File name and path: `src\app\main\pages\workflows\editor\`
`[editorId]_components\editor-canvas.tsx` :

1. Purpose:

`EditorCanvas` → Main canvas for workflow editor with drag-and-drop nodes, connections, and a sidebar.

2. Key Functions/Props:

- **State Management:**

- `nodes`, `edges` : Tracks workflow nodes and connections.
- `reactFlowInstance` : Manages React Flow instance.

- **Event Handlers:**

- `onDragOver`, `onDrop` : Handles node drag-and-drop.
- `onNodesChange`, `onEdgesChange`, `onConnect` : Updates nodes and edges.
- `handleClickCanvas` : Resets selected element on canvas click.

- **Dynamic Behavior:**

- Fetches workflow data (`onGetNodesEdges`) on mount.
- Syncs nodes and edges with editor state (`useEffect`).

3. Dependencies:

- **Imports:**

- `EditorCanvasCardType`, `EditorNodeType` (`@/lib/types`).
- `useEditor` (`@/providers/editor-provider`).
- `React`, `useCallback`, `useEffect`, `useMemo`, `useState` (`'react'`).
- `ReactFlow`, `Background`, `Connection`, `Controls`, `Edge`, `EdgeChange`, `MiniMap`, `NodeChange`, `ReactFlowInstance`, `applyNodeChanges`, `applyEdgeChanges`, `addEdge` (`@xyflow/react`).
- `EditorCanvasCardSingle` (`./editor-canvas-card-single`).
- `ResizableHandle`, `ResizablePanel`, `ResizablePanelGroup` (`@/components/ui/resizable`).
- `toast` (`sonner`).
- `usePathname` (`next/navigation`).
- `v4` (`uuid`).

- `EditorCanvasDefaultCardTypes` (`@/lib/constants`).
- `FlowInstance` (`./flow-instance`).
- `EditorCanvasSidebar` (`./editor-canvas-sidebar`).
- `onGetNodesEdges` (`../../../../_actions/workflow-connections`).
- **Exports:** `EditorCanvas` (default).

⇒ File name and path: `src\app\main\pages\workflows\editor\`
`[editorId]_components\flow-instance.tsx` :

1. Purpose:

`FlowInstance` → Manages saving and publishing workflows, and renders child components.

2. Key Functions/Props:

• Props:

- `children` : Child components to render.
- `edges` : Array of workflow edges.
- `nodes` : Array of workflow nodes.

• Functions:

- `onFlowAutomation` : Saves workflow nodes, edges, and flow data.
- `onPublishWorkflow` : Publishes the workflow.
- `onAutomateFlow` : Identifies connected nodes and updates flow state.

3. Dependencies:

• Imports:

- `Button` (`@/components/ui/button`).
- `useNodeConnections` (`@/providers/connections-provider`).
- `usePathname` (`next/navigation`).

- `React`, `useCallback`, `useEffect`, `useState` (`'react'`).
- `onCreateNodesEdges`, `onFlowPublish` (`../_actions/workflow-connections`).
- `toast` (`sonner`).
- **Exports:** `FlowInstance` (default).

⇒ File name and path: `src\\app\\(main)\\(pages)\\workflows\\editor\\[editorId]_components\\google-drive-files.tsx` :

1. Purpose:

`GoogleDriveFiles` → Manages Google Drive file listener and displays its status.

2. Key Functions/Props:

- **State:**
 - `loading` : Tracks loading state during API calls.
 - `isListening` : Tracks whether the listener is active.
- **Functions:**
 - `reqGoogle` : Initiates Google Drive listener and updates state.
 - `onListener` : Checks if a listener is already active.

3. Dependencies:

- **Imports:**
 - `React`, `useEffect`, `useState` (`'react'`).
 - `toast` (`sonner`).
 - `axios` (`axios`).
 - `getGoogleListener` (`../../../../_actions/workflow-connections`).
 - `Button` (`@/components/ui/button`).
 - `Card`, `CardDescription` (`@/components/ui/card`).
 - `CardContainer` (`@/components/global/3d-card`).
- **Exports:** `GoogleDriveFiles` (default).

⇒ File name and path: `src\\app\\(main)\\(pages)\\workflows\\editor\\[editorId]_components\\google-file-details.tsx` :

1. Purpose:

`GoogleFileDetails` → Displays details of a Google Drive file and allows adding file data to templates.

2. Key Functions/Props:

- **Props:**

- `nodeConnection` : Connection details for Google Drive.
- `title` : Title of the node (e.g., "Google Drive").
- `gFile` : Google Drive file data.

- **Functions:**

- `isGoogleFileNotEmpty` : Checks if the Google Drive file data is valid.
- `onAddTemplate` : Adds file details to the template.

3. Dependencies:

- **Imports:**

- `Card` , `CardContent` , `CardDescription` (`@/components/ui/card`).
- `onAddTemplate` (`@/lib/editor-utils`).
- `ConnectionProviderProps` (`@/providers/connections-provider`).
- `React` (`'react'`).

- **Exports:** `GoogleFileDetails` (default).

⇒ File name and path: `src\\app\\(main)\\(pages)\\workflows\\editor\\[editorId]_components\\render-connection-accordion.tsx` :

1. Purpose:

`RenderConnectionAccordion` → Renders connection details and Slack channel selection for workflow nodes.

2. Key Functions/Props:

- **Props:**

- `connection` : Connection details (e.g., title, image, description).
- `state` : Current editor state.

- **State Management:**

- `slackChannels` , `selectedSlackChannels` : Manages Slack channel selection.
- `isConnected` : Checks if the connection is active.

- **Dynamic Behavior:**

- Displays Slack channel selection if the connection is Slack-specific and active.

3. Dependencies:

- **Imports:**

- `ConnectionCard` (`@/app/(main)/(pages)/connections/_components/connection-card`).
- `AccordionContent` (`@/components/ui/accordion`).
- `MultipleSelector` (`@/components/ui/multiple-selector`).
- `Connection` (`@/lib/types`).
- `useNodeConnections` (`@/providers/connections-provider`).
- `EditorState` (`@/providers/editor-provider`).
- `SailthreadStore` (`@/store`).
- `Command` , `CommandEmpty` , `CommandGroup` , `CommandInput` , `CommandItem` (`@/components/ui/command`).
- `Popover` , `PopoverContent` , `PopoverTrigger` (`@/components/ui/popover`).
- `CheckIcon` , `ChevronsUpDown` (`lucide-react`).
- `Button` (`@/components/ui/button`).
- `cn` (`@/lib/utils`).

- **Exports:** `RenderConnectionAccordion` (default).

⇒ File name and path: `src\app\main\pages\workflows\editor\editorId_components\render-output-accordion.tsx` :

1. Purpose:

`RenderOutputAccordion` → Renders output content based on the selected node's title and connection details.

2. Key Functions/Props:

- **Props:**

- `state` : Current editor state.
- `nodeConnection` : Connection details for the selected node.

- **State Management:**

- `googleFile` , `setGoogleFile` : Manages Google Drive file data.
- `selectedSlackChannels` , `setSelectedSlackChannels` : Manages Slack channel selection.

3. Dependencies:

- **Imports:**

- `ConnectionProviderProps` (`@/lib/types`).
- `EditorState` (`@/providers/editor-provider`).
- `SailthreadStore` (`@/store`).
- `React` (`'react'`).
- `ContentBasedOnTitle` (`./content-based-on-title`).

- **Exports:** `RenderOutputAccordion` (default).

Providers

⇒ File name and path: `src\\providers\\connections-provider.tsx` :

1. Purpose:

`ConnectionsProvider` → Manages state and connections for workflow nodes (Discord, Google, Notion, Slack).

2. Key Functions/Props:

- **State Management:**

- `discordNode` , `googleNode` , `notionNode` , `slackNode` : Stores connection details for each service.
- `isLoading` : Tracks loading state.
- `workflowTemplate` : Stores workflow templates.

- **Context:**

- `ConnectionsContext` : Provides global access to connection state.

- **Hooks:**

- `useNodeConnections` : Retrieves connection state from context.

3. Dependencies:

- **Imports:**

- `createContext` , `useContext` , `useState` (`'react'`).
- `ConnectionProviderProps` (`@/lib/types`).

- **Exports:**

- `ConnectionsProvider` : Context provider for connection state.
- `useNodeConnections` : Hook to access connection state.

⇒ File name and path: `src\\providers\\editor-provider.tsx` :

1. Purpose:

`EditorProvider` → Manages state and actions for the workflow editor, including nodes, edges, and history.

2. Key Functions/Props:

- **State Management:**

- `editor` : Tracks nodes, edges, and the selected node.
- `history` : Manages undo/redo history.

- **Reducer:**

- `editorReducer` : Handles actions like `UNDO` , `REDO` , `LOAD_DATA` , and `SELECTED_ELEMENT` .

- **Context:**

- `EditorContext` : Provides global access to editor state and dispatch function.

- **Hooks:**

- `useEditor` : Retrieves editor state and dispatch function from context.

3. Dependencies:

- **Imports:**

- `EditorActions` , `EditorNodeEdge` , `EditorNodeType` (`@/lib/types`).
- `createContext` , `useContext` , `useReducer` , `Dispatch` (`'react'`).

- **Exports:**

- `EditorProvider` : Context provider for editor state.
- `useEditor` : Hook to access editor state and dispatch.

⇒ File name and path: `src\providers\modal-provider.tsx` :

1. Purpose:

`ModalProvider` → Manages modal state and provides functionality to open and close modals with optional data fetching.

2. Key Functions/Props:

- **State Management:**

- `isOpen` : Tracks whether the modal is open.

- `data` : Stores modal data.
- `showingModal` : Tracks the currently displayed modal.
- **Functions:**
 - `setOpen` : Opens a modal and optionally fetches data.
 - `setClose` : Closes the modal and resets data.
- **Context:**
 - `ModalContext` : Provides global access to modal state and functions.
- **Hooks:**
 - `useModal` : Retrieves modal state and functions from context.

3. Dependencies:

- **Imports:**
 - `createContext` , `useContext` , `useEffect` , `useState` (`'react'`).
- **Exports:**
 - `ModalProvider` : Context provider for modal state.
 - `useModal` : Hook to access modal state and functions.

⇒ File name and path: `src\\providers\\theme-provider.tsx` :

1. Purpose:

`ThemeProvider` → Wraps the application with `next-themes` to enable theme switching (light/dark mode).

2. Key Functions/Props:

- **Props:**
 - `children` : Child components to be wrapped.
 - `...props` : Additional props for `NextThemesProvider` .
- **State Management:**

- `isMounted` : Ensures the component is mounted before rendering to avoid SSR issues.

3. Dependencies:

- **Imports:**

- `React` , `useEffect` , `useState` (`'react'`).
- `NextThemesProvider` , `ThemeProviderProps` (`next-themes`).

- **Exports:**

- `ThemeProvider` : Wrapper for theme management.

CONNECTIONS AND COMPONENTS

⇒ File name and path: `src\\app\\(main)\\(pages)\\connections\\page.tsx` :

1. Purpose:

`Connections` → Displays and manages connections for various apps (Discord, Notion, Slack, Google Drive).

2. Key Functions/Props:

- **Props:**

- `searchParams` : Query parameters for connection details (e.g., `webhook_id` , `access_token`).

- **Functions:**

- `onUserConnections` : Handles connecting user accounts to Discord, Notion, and Slack.
- `getUserData` : Retrieves user connection data.

- **Dynamic Behavior:**

- Fetches and displays connection status for each app.

3. Dependencies:

- **Imports:**

- `CONNECTIONS` (`@/lib/constants`).
- `React` (`'react'`).
- `ConnectionCard` (`./_components/connection-card`).
- `currentUser` (`@clerk/nextjs/server`).
- `onDiscordConnect` , `onNotionConnect` , `onSlackConnect` (`./_actions`).
- `getUserData` (`./_actions/get-user`).

- **Exports:** `Connections` (default).

⇒ File name and path: `src\\app\\(main)\\(pages)\\connections_components\\connection-card.tsx` :

1. **Purpose:**

`ConnectionCard` → Displays connection details (Discord, Notion, Slack) and allows users to connect or view connection status.

2. **Key Props:**

- `type` : Connection type (e.g., Discord, Notion, Slack).
- `icon` : Icon for the connection.
- `title` : Connection title.
- `description` : Connection description.
- `connected` : Object indicating connection status.

3. **Behavior:**

- Shows "Connected" if linked; otherwise, a "Connect" button redirects to the app's auth URL.

4. **Dependencies:**

- Imports: `ConnectionTypes` , React, UI components (`Card` , `CardTitle` , etc.), `Image` , `Link` .

- Environment variables: `NEXT_PUBLIC_DISCORD_REDIRECT` , `NEXT_PUBLIC_NOTION_AUTH_URL` , `NEXT_PUBLIC_SLACK_REDIRECT` .

5. Exports:

- `ConnectionCard` (default).

6. Styling:

- Uses Tailwind CSS for layout and conditional rendering.

File name and path: `src\app\main\pages\connections\actions\discord-connection.tsx` :

1. Purpose:

Handles Discord connection logic, including creating webhooks, retrieving connection details, and posting content to Discord via webhooks.

2. Key Functions:

- `onDiscordConnect` :
 - Connects a user to Discord by creating or updating a webhook in the database.
 - Checks for existing webhooks to avoid duplicates.
 - Links the webhook to the user and stores details like `channel_id` , `webhook_id` , `guild_name` , etc.
- `getDiscordConnectionUrl` :
 - Retrieves the Discord webhook URL and details for the current user.
- `postContentToWebHook` :
 - Posts content to a Discord webhook using the provided URL.

3. Dependencies:

- `db` : Database instance for querying and storing webhook data.
- `currentUser` : Retrieves the current authenticated user.
- `axios` : Sends HTTP requests to post content to Discord.

4. Behavior:

- Ensures no duplicate webhooks are created for the same user or channel.
- Returns success/failure messages for webhook creation and content posting.

5. Exports:

- `onDiscordConnect` , `getDiscordConnectionUrl` , `postContentToWebHook` .

This module manages Discord integration, enabling users to connect, retrieve, and interact with Discord webhooks seamlessly.

⇒ File Name and Path: `src\app\main\pages\connections_actions\get-user.tsx` :

1. Purpose:

Retrieves user data, including their connections, from the database.

2. Key Function:

- `getUserData` :
 - Fetches user information and associated connections using the user's `clerkId` .
 - Returns the user object with included connection details.

3. Dependencies:

- `db` : Database instance for querying user data.

4. Exports:

- `getUserData` : The function to fetch user data.

This module provides a simple way to access user information and their connections for use in the `Connections` page.

⇒ File name and path: `src\app\main\pages\connections_actions\google-connection.tsx` :

1. Purpose:

Fetches file metadata from Google Drive using OAuth2 authentication.

2. Key Function:

- `getFileMetadata` :
 - Initializes Google OAuth2 client with environment variables (`GOOGLE_CLIENT_ID`, `GOOGLE_CLIENT_SECRET`, `OAuth2_REDIRECT_URI`).
 - Retrieves the authenticated user's Google OAuth access token via Clerk.
 - Uses the access token to authenticate with Google Drive API and fetch file metadata.
 - Returns the file metadata if successful; otherwise, returns an error message.

3. Dependencies:

- `@clerk/nextjs/server` : For retrieving the authenticated user's ID.
- `googleapis` : For interacting with Google Drive API.
- Environment variables: `GOOGLE_CLIENT_ID`, `GOOGLE_CLIENT_SECRET`, `OAuth2_REDIRECT_URI`.

4. Behavior:

- Requires an authenticated user with Google OAuth access.
- Fetches and returns file metadata from the user's Google Drive.

5. Exports:

- `getFileMetadata` : The function to retrieve Google Drive file metadata.

This module enables integration with Google Drive, allowing users to fetch and manage their file data securely.

⇒ File name and path: `app\main\pages\connections_actions\notion-connection.tsx` :

1. Purpose:

Manages Notion integration, including connecting to Notion, retrieving connection details, fetching databases, and creating new pages in a Notion database.

2. Key Functions:

- `onNotionConnect` :
 - Connects a user to Notion by storing their access token, workspace details, and database ID in the database.
 - Ensures no duplicate connections for the same access token.
- `getNotionConnection` :
 - Retrieves the Notion connection details for the current user.
- `getNotionDatabase` :
 - Fetches details of a specific Notion database using the Notion API.
- `onCreateNewPageInDatabase` :
 - Creates a new page in a specified Notion database with the provided content.

3. Dependencies:

- `db` : Database instance for storing and querying Notion connection data.
- `@clerk/nextjs/server` : For retrieving the current authenticated user.
- `@notionhq/client` : Notion SDK for interacting with the Notion API.

4. Behavior:

- Ensures unique Notion connections per user.
- Enables fetching database details and creating new pages programmatically.

5. Exports:

- `onNotionConnect` , `getNotionConnection` , `getNotionDatabase` , `onCreateNewPageInDatabase` .

⇒ File Name and path: `src\\app\\(main)\\(pages)\\connections_actions\\slack-connection.tsx` :

1. Purpose:

Manages Slack integration, including connecting to Slack, retrieving connection details, listing bot-accessible channels, and posting messages to Slack channels.

2. Key Functions:

- `onSlackConnect` :
 - Connects a user to Slack by storing their access token, app details, and team information in the database.
 - Ensures no duplicate connections for the same Slack access token.
- `getSlackConnection` :
 - Retrieves the Slack connection details for the current user.
- `listBotChannels` :
 - Fetches a list of Slack channels (public and private) where the bot is a member.
 - Returns channels as `Option[]` (label-value pairs).
- `postMessageToSlack` :
 - Posts a message to one or multiple Slack channels using the Slack API.
 - Wraps `postMessageInSlackChannel` for handling multiple channels.

3. Dependencies:

- `db` : Database instance for storing and querying Slack connection data.
- `@clerk/nextjs/server` : For retrieving the current authenticated user.
- `axios` : For making HTTP requests to the Slack API.
- `Option` : Type definition for channel selection (label-value pairs).

4. Behavior:

- Ensures unique Slack connections per user.
- Enables fetching bot-accessible channels and posting messages programmatically.
- Handles errors gracefully and logs relevant information.

5. Exports:

- `onSlackConnect` , `getSlackConnection` , `listBotChannels` , `postMessageToSlack` .

This module facilitates seamless integration with Slack, allowing users to connect their accounts, manage channels, and send messages programmatically.