

Document Download Toggle Amendments

This document outlines the implementation of a new feature that allows administrators to toggle document download functionality on and off in the Danswer application. The feature was developed by modifying three key files SearchResulstDisplay.tsx, page.tsx, chat_backend.py across the frontend and backend.

Server Implemented on:

(<http://ec2-54-79-231-211.ap-southeast-2.compute.amazonaws.com>)

(Site: <http://54.79.231.211>)

1) (chat_backend) Backend - File Download Management:

Path: cd danswer/backend/danswer/server/query and chat/chat_backend.py:

Summary: The backend manages the status of the download functionality. It serves API endpoints for toggling download state, checking the current status, and handling file download requests.

❖ **Key Modifications:**

- **Status Management:** The backend is responsible for managing the download state. It reads and writes the status to a file (flag.json) located at /app/danswer/server/documents/flag.json. This status is checked before file downloads.
- **Download Endpoint:** The /download/{uuid}/{file_name} endpoint serves the file to the user, but only if downloads are enabled. If downloads are disabled, a 403 error is returned, preventing access.
- **Toggle Endpoint:** The /admin/downloads-toggle endpoint allows the admin to change the download status. It updates the status in flag.json based on the admin's input.
- **Error Handling:** The backend includes error handling for scenarios such as missing files, read/write failures, and invalid status configurations. Appropriate HTTP responses (eg. 403 for disabled downloads or 404 for missing files) ensure clear communication with the frontend.

2) (page.tsx) Frontend - Admin Panel Download Toggle:

Path: `cd danswer/web/src/app/admin/indexing/status/page.tsx`

Summary: The admin panel provides a **toggle button** to **enable** or **disable** the **document download** functionality. The **toggle state** is **fetch**ed from and **update**d in the **backend**.

❖ **Key Modifications:**

- **Toggle Button:** A new **toggle button** has been **added** to the **admin panel**, allowing the **admin** to **enable** or **disable document downloads**. This button **dynamically updates** based on the **current state** fetched from the **backend** using `/api/chat/download/status`.
- **Backend Communication:** The **admin toggle** calls the `/api/manage/admin/downloads-toggle` **API** to **update** the **download status**. **Toast notifications** provide **feedback** to the **admin**, indicating whether **downloads** have been **enabled** or **disabled**.
- **State Handling:** The **download status** is stored in a **local state** within the **Main components**, and the **toggle** reflects the **current state** **dynamically**.

3) (SearchResultsDisplay.tsx) Frontend - Search Results Display:

Path: `cd danswer/web/src/components/search/SearchResultsDisplay.tsx`

Summary: The **document download functionality** in the **search results** is **governed** by the **backend's status**. If **downloads** are **enabled**, users can **download documents** by **clicking** on them. If **disabled**, an **error message** is shown.

❖ **Key Modifications:**

- **Download Button Logic:** The **frontend** now **checks** whether **downloads** are **enabled** before **allowing** users to **download documents**. It calls the **API endpoint** `/api/chat/download/status` to fetch the **current download status**.
- **File Download Mechanism:** If **downloads** are **enabled**, the file is **fetch**ed from the **backend**, and the **file-saver package** is used to **save the file locally**. If **downloads** are **disabled**, a **toast notification** informs the **user** that **downloads** are **currently unavailable**.

- **Toast Notification:** Success and error messages are displayed to the user during the download process to enhance user experience.

4) Server Modifications:

- ❖ The code was taken from this server and was modified with additional key features (ubuntu@ec2-13-236-50-121.ap-southeast-2.compute.amazonaws.com) Implementing on our testing server and successfully achieving it on (<http://ec2-54-79-231-211.ap-southeast-2.compute.amazonaws.com>).

5) Overall Summary:

- The file chat_backend.py (Backend Control) serves as the central authority, managing the status of the download feature. It controls the file download functionality and communicates the state to both the admin panel and search results display.
- The (Admin Panel) page.tsx fetches the current status from the backend chat_backend.py and allows the administrator to toggle the download functionality. The state is stored in a JSON file, which is used by the backend to manage document download permission.
- The (Frontend Display) SearchResultsDisplay.tsx checks the current download status, fetched from the backend, before allowing users to download documents. If the download feature is disabled, users are blocked from downloading any file, and appropriate notifications are shown.

Note: For more detailed information, please refer to our other document titled "[Document Download Function Amendments](#)".

To access the Danswer application as an admin, please log in as:

Email: noelshallum@gmail.com

Password: 12345

- Ibrahim Sultan