Database Schema

The application uses **MongoDB** with **Mongoose** for data modeling. Below are the definitions for the two primary collections.

1. Users Collection (users)

Stores registered user credentials for authentication and history tracking.

Field	Type	Description
_id	ObjectId	Auto-generated unique identifier.
username	String	Unique display name.
email	String	Unique email address (normalized to lowercase).
password	String	Bcrypt-hashed password.
createdAt	Date	Timestamp of registration.

2. Uploads Collection (uploads)

Stores metadata for both temporary files and text snippets.

Field	Type	Attributes	Description
uniqueId	String	**Indexed, Unique**	The 32-character hex ID used in the shareable link.
type	String	Required	Either "file" or "text".
fileUrl	String	Optional	Secure Cloudinary URL (if type is file).
textContent	String	Optional	Encrypted/Raw text content (if type is text).
password	String	Optional	Bcrypt-hashed password for protected links.
deleteToken	String	Required	Token allowing guests to manually delete their upload.
expiresAt	Date	**TTL Index**	The exact time when the document will auto-expire.
maxDownloads	Number	Optional	Maximum allowed views before auto-deletion.
currentDownloads	Number	Default: 0	Tracks how many times the content has been accessed.

Field	Type	Attributes	Description
oneTimeView	Boolean	Default: false	If true, content deletes immediately after first access.
userId	ObjectId	Ref: User	Link to the registered user (if logged in).
originalName	String	Optional	Original filename for downloads (e.g., image.png).
createdAt	Date	Default: Now	Timestamp of upload.