

Buffer

Expiration-Based Cloud Storage and File Transfer System



Goal and Abstract:

So basically the thing is, **Buffer** will be a **quick, temporary cloud-based file storage and transfer system** providing users with a flexible, expiration-based solution. Users can temporarily upload and share large files, after which the files automatically expire based on the selected time. This reduces storage costs for users who only need short-term file storage, making cloud services more affordable and accessible. Buffer also offers an option for users to convert their files into **persistent, non-expiring storage** beyond a certain limit, for which customers will be charged based on usage. Vultr's scalable object storage cloud infrastructure powers the platform, ensuring reliable and secure file transfer with high uptime and accessibility.

Proposed Solution:

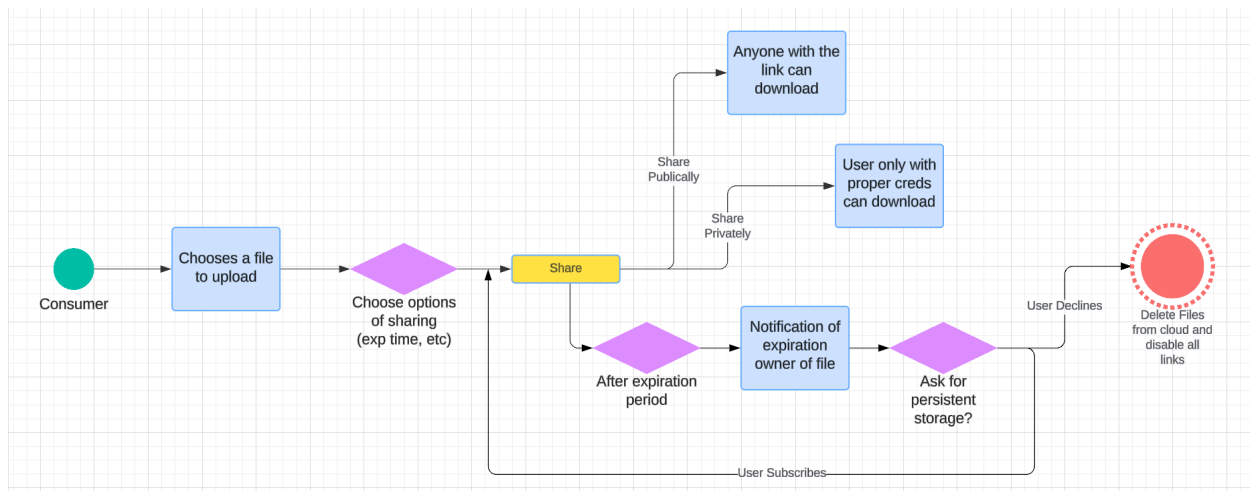
Buffer offers an **expiration-based file storage system** where users can upload large files with a predetermined expiration date (e.g., 3, 5, 7 days). After this period, the files are automatically deleted unless the user converts them into **persistent** storage. Key features of the platform include:

- **Expiration-Based Storage:** Users can upload files that will automatically expire after a set time.
- **File Encryption:** Secure storage and transfer, ensuring data privacy and integrity.
- **User-Friendly Interface:** Simple file upload and sharing, with tracking and notifications for expiring files.
- **Scalability:** Implemented on flexible and configurable Vultr's Object Storage Cloud Infrastructure to support growth in users and storage needs.

Preliminary Diagram:

The basic Figma Design Link for the App can be found here: [Click Here](#)

A basic UML diagram is as follows:



Chao!!

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