



CLOUD MEDIA GALLERY

Technical Design Document

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- **Introduction**

- **Purpose of this document**

The purpose of this document is to document the technical design, component details, and Database design. This will also capture the scope, assumptions, risk, dependencies of this project.

- ## Project overview

The proposed system is Cloud Media Gallery which is a web application to store media files over the cloud. Users can store and access all types of media files be it an image, a video or an audio file. Users can backup their media files by signing up in a secure way and can login to access and sync all their files on the cloud. All files will be well synchronized over all the devices like smartphones, laptops and tablets.

- ## Solution Summary

- ### Scope

- The proposed system contains the following:
- Users can store and access media files across all the platforms. All the media files will be encrypted and only the user having login credentials can access the files.
- All media files will be synchronized via the internet and a backup will be made on the cloud.

- ### Assumptions

- Users have basic knowledge of mobile and computer devices.
- User has a basic understanding of the English language.

- ### Dependencies

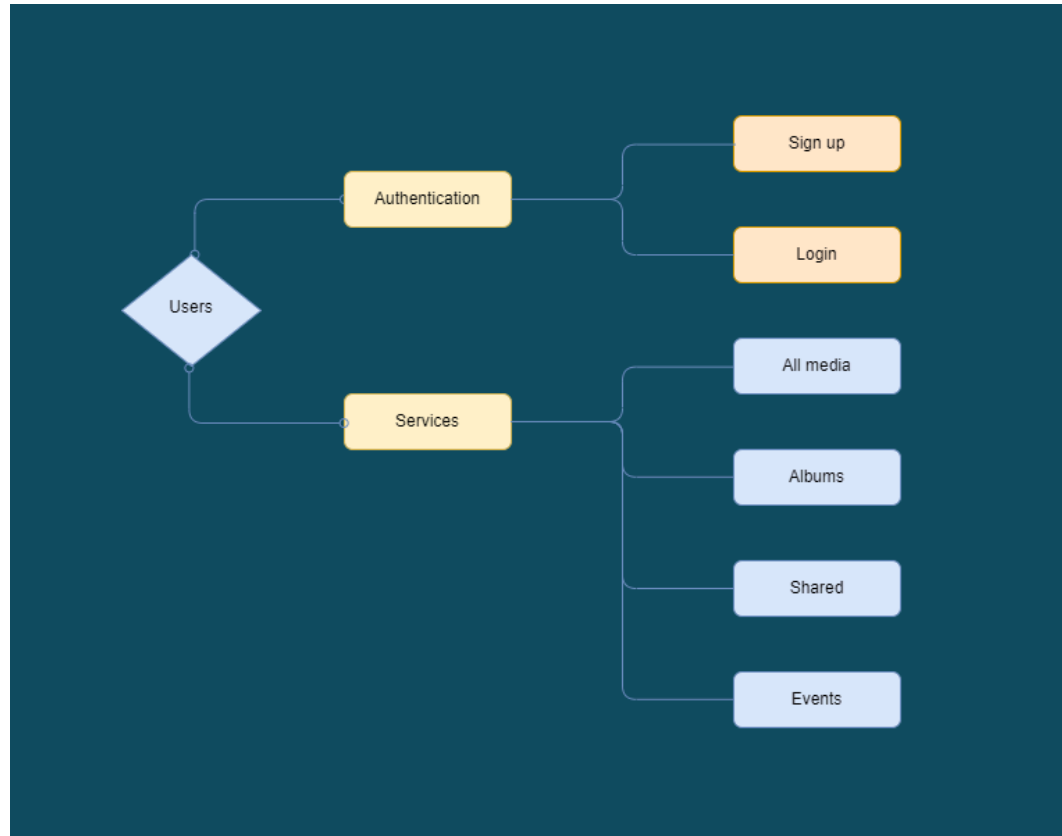
This product does require a backend cloud server for storing all the media files for the different types of users.

- ### Risks

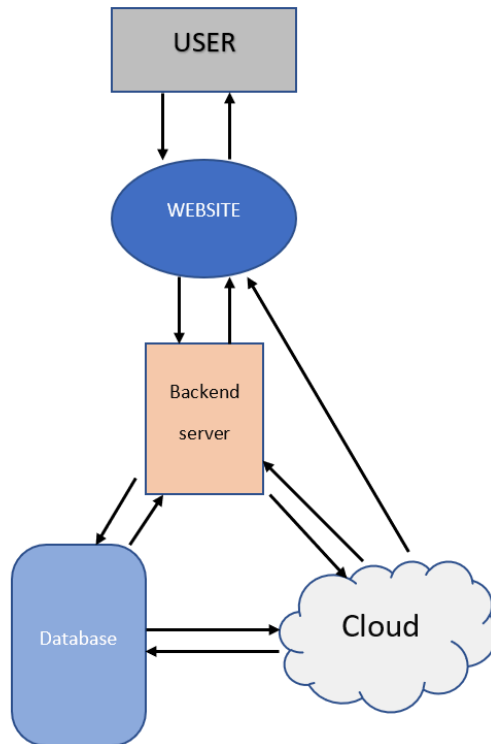
- Media files will have basic encryption and only one authentication factor is used, so it can be easily hacked.
- Cloud may store duplicate media files as it is not backed by AI.

- ## Schematic Diagram

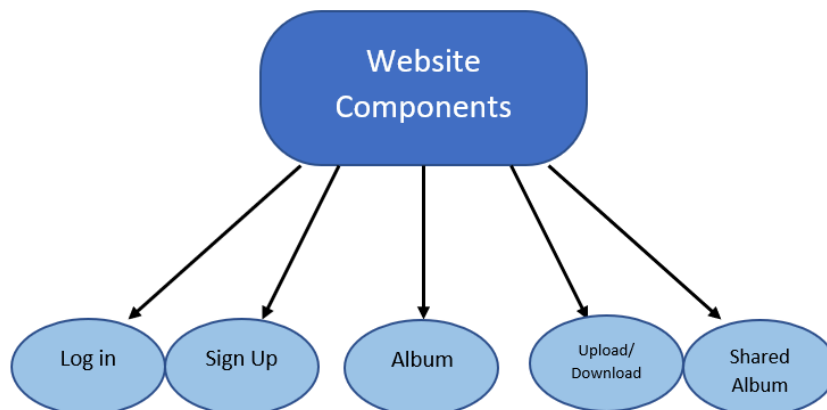
A schematic, or schematic diagram is a representation of the elements of a system using abstract, graphic symbols rather than realistic pictures. It gives an overview of the overall system.



- System Design
- Proposed design



- Component Diagram



- Database Design

- Tables Structure

5.2.1 users:

Column Name	Data Type	Length	Nulls
user_id (Primary Key)	int	5	Not Allowed
first_name	varchar	20	Not Allowed
last_name	varchar	20	Not Allowed
email/username	varchar	20	Not Allowed
password	varchar	10	Not Allowed

5.2.2: Tags:

Column Name	Data Type	Length	Nulls
tid	int	5	Not Allowed
tag	varchar	25	Not Allowed

5.2.3: media:

Column Name	Data Type	Length	Nulls
mid	int	5	Not Allowed
user_id References users(uid)	int	5	Not Allowed
media_type	varchar	10	Not Allowed
unique_id	int	10	Not Allowed
path	varchar	100	Not Allowed
isShared	boolean		Not Allowed
lid References location(lid)	int	5	Not Allowed
isPrivate	boolean		Not Allowed

5.2.4: Tags_Ref:

Column Name	Data Type	Length	Nulls
id	int	5	Not Allowed
tag_id References tags(tid)	int	5	Not Allowed
media_id References media(mid)	int	5	Not Allowed

5.2.5: Shared Media:

Column Name	Data Type	Length	Nulls
id	int	5	Not Allowed
user_id References users(uid)	int	5	Not Allowed
media_id References media(uid)	int	5	Not Allowed

5.2.6: People:

Column Name	Data Type	Length	Nulls
pid	int	5	Not Allowed
username	varchar	10	Not Allowed
first_name	varchar	10	Not Allowed
last_name	varchar	10	Not Allowed
created_by References users(uid)	int	5	Not Allowed

5.2.7: People_tag:

Column Name	Data Type	Length	Nulls
id	int	5	Not Allowed
pid/uid Reference people(pid) / Reference users(uid)	int	5	Not Allowed
media_id References media(mid)	int	5	Not Allowed

5.2.8: location:

Column Name	Data Type	Length	Nulls
lid	int	5	Not Allowed
location	varchar	50	Not Allowed

5.2.9: events:

Column Name	Data Type	Length	Nulls
id	int	5	Not Allowed
event_id References events(eid)	int	5	Not Allowed
media_id References media(mid)	int	5	Not Allowed

5.2.10: event:

Column Name	Data Type	Length	Nulls
eid	int	5	Not Allowed
Title	varchar	20	Not Allowed
user_id References users(uid)	int	5	Not Allowed

5.2.11: album:

Column Name	Data Type	Length	Nulls
aid	int	5	Not Allowed
Title	varchar	20	Not Allowed
created_by References users(uid)	int	45	Not Allowed

5.2.12: album_ref:

Column Name	Data Type	Length	Nulls
id	int	5	Not Allowed
album_id References album(uid)	int	5	Not Allowed
media_id References media(mid)	int	5	Not Allowed

- Appendices

- Glossary

Acronyms	Definitions
SPA	Single Page Application

- Terms & Conditions

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- Change Log

Please note that this table needs to be maintained even if a Configuration Management tool is used.

Version Number	Changes made			
V1.0	<If the change details are not explicitly documented in the table below, reference should be provided here>			
	Page no	Changed by	Effective date	Changes affected
	3	Awanish Singh	03-03-2022	Introduction - { Purpose of this document, Project Overview }
	3	Awanish Singh	04-03-2022	Solution Summary - { Scope Assumption, Dependencies & Risks}
	4	Mrityunjay Srivastava & Karan Tariyal	05-03-2022	Schematic Diagram & System Design
	6	Shadab Alam & Divyam	06-03-2022	Database Design & Appendices