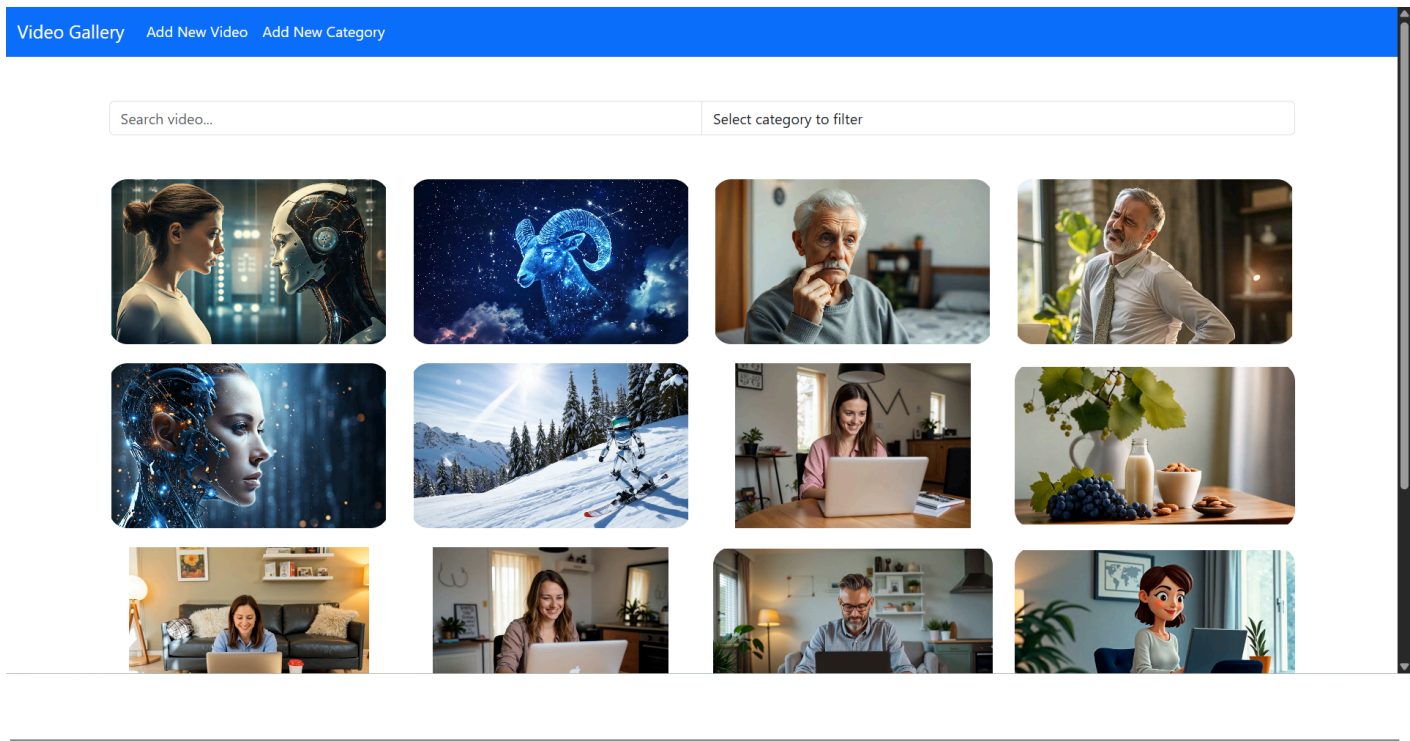


Video Repository Technical Documentation

Type: SaaS Web Application
Audience: Internal Development Team
Tech Stack: PHP • MySQL • HTML





1. Overview

Purpose

Video Repository is a lightweight SaaS web application designed to serve as a centralized storage and management platform for video assets. It allows team members to upload, categorize, search, and retrieve videos efficiently through a simple browser interface.

This tool eliminates the need for multiple external storage services by consolidating all video files in one secure, internal system.

Core Features

-  **Video Upload** — Supports direct upload through web UI.
-  **Categorization & Tagging** — Each video can be tagged and grouped by project or department.

- 🔍 **Search & Filter** — Quickly locate videos using title, tags, or upload date.

Goals

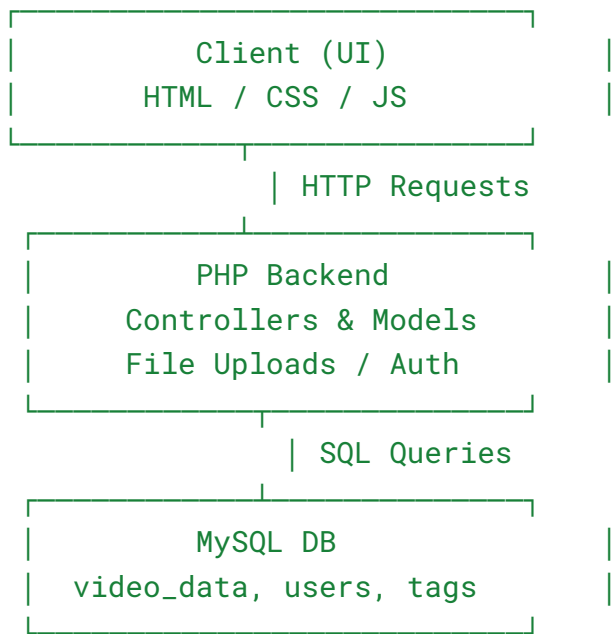
- Provide a unified video management system for internal use.
 - Improve collaboration between media and development teams.
 - Maintain versioned, searchable, and secure video archives.
-

2. System Architecture

Overview

The system is a classic **three-tier architecture** composed of:

1. **Presentation Layer** — Frontend interface built in HTML/CSS/JavaScript.
2. **Application Layer** — Business logic handled by PHP (using MVC pattern).
3. **Data Layer** — MySQL database for video metadata and user access control.



Main Components

Component	Description
Frontend (HTML/CSS/JS)	Provides the upload interface, video list, and filtering options.
PHP Controllers	Handle upload requests, video retrieval, user sessions, and data validation.
MySQL Database	Stores metadata such as filename, upload date, tags, uploader, and permissions.
File Storage Directory	Physical storage of video files on the server (<code>/uploads/videos/</code>).
Authentication Module	Verifies users through session-based login. Admins manage user roles.

Database Schema (Simplified)

Tables:

- `users` — user accounts and roles
 - `videos` — metadata for each uploaded file
 - `categories` — video categories or departments
 - `tags` — additional keyword labels
-

3. Installation and Setup

Requirements

Component	Minimum Version
PHP	8.0+
MySQL	8.0+
Apache / Nginx	Latest stable
Storage	50GB+ available disk space
Browser	Chrome / Edge / Firefox (latest)

Step-by-Step Setup Guide

1. Clone the Repository

```
git clone https://github.com/your-org/video-repository.git
cd video-repository
```

2. Configure Environment

Create a `.env` file in the root directory:

```
DB_HOST=localhost
DB_USER=root
DB_PASS=yourpassword
DB_NAME=video_repository
UPLOAD_DIR=/var/www/video_repository/uploads/videos
```

3. Create the Database

```
CREATE DATABASE video_repository;
USE video_repository;
```

```
SOURCE database/schema.sql;
```

4. Set File Permissions

Ensure the uploads folder is writable:

```
chmod -R 775 uploads/videos
```

5. Configure Apache/Nginx

Point your virtual host to the `/public` directory of the project:

```
DocumentRoot /var/www/video_repository/public
```

Restart your server:

```
sudo service apache2 restart
```

6. Access the Application

Open your browser and navigate to:

<http://localhost/video-repository>

(Change this immediately after first login.)

Setup Verification Checklist

- Can upload and play a test video
- Video metadata stored correctly in MySQL
- Search/filter returns correct results
- Storage usage stats display correctly