



Project Proposal & Report

yMedia- Video Streaming and Sharing Platform

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yMedia

yMedia is a progressive web-based app designed to provide a seamless video streaming and sharing experience with responsive interfaces and cloud-based storage.

Objectives

The primary objective of yMedia is to develop an interactive and responsive web application that enables users to upload, manage, and engage with video content.

- Providing a progressive web application (PWA) with offline capabilities.
- Ensuring seamless video upload and streaming through cloud storage integration.
- Offering an interface supporting engagement features such as likes, comments, and sharing.
- Enabling users to manage their content through a personalized control panel.

Features & Functional Modules

Authentication Module

- Secure user sign-up and login
- Session handling and data validation

Content Management

- Video creation and uploading
- User-specific video deletion and settings panel

User Interaction

- Like, comment and share functionalities
- Categorized browsing of content

User Interface & Experience

- Responsive layout for multiple devices
- Clean, interactive navigation components

Progressive Web Application Features

- Add-to-home-screen support
- Optimized caching for enhanced performance

System Architecture & Tools

Frontend

- HTML, CSS, JavaScript
- ReactJS for component-based UI development

Backend

- Node.js and Express.js for server-side logic
- RESTful API architecture

Database

- MongoDB for storing user accounts, metadata and video details

Storage

- Firebase for secure and scalable video hosting

Additional Dependencies

- Authentication libraries
- Cloud storage SDKs
- State management tools (if needed)