

# *web* **APPLICATION**

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# introducing **MY APP**

video and audio collection tool designed for  
seamless organization, management, and  
playback of multimedia content.



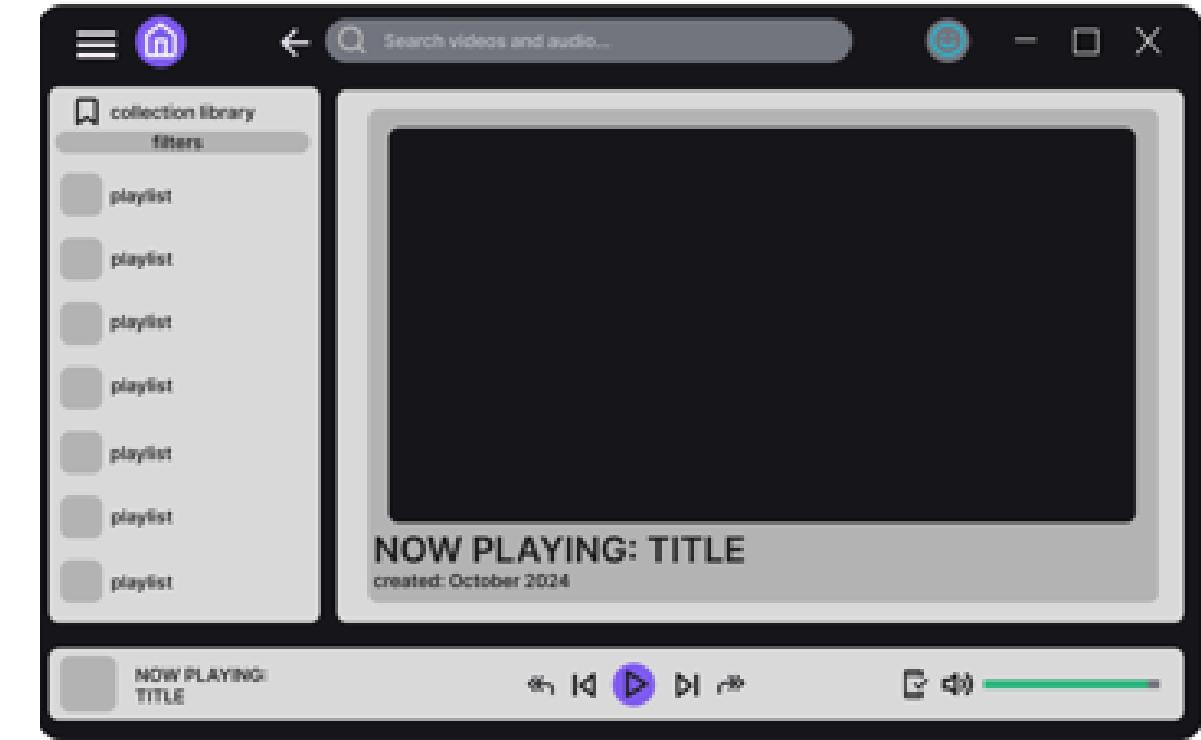
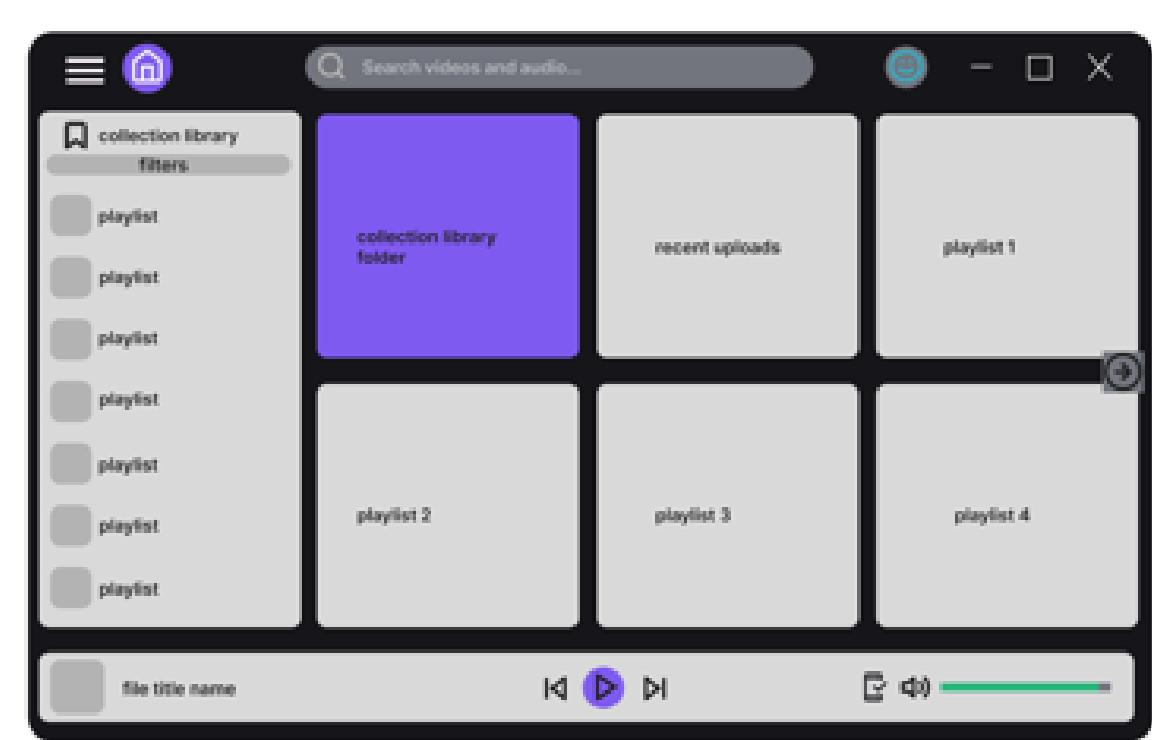
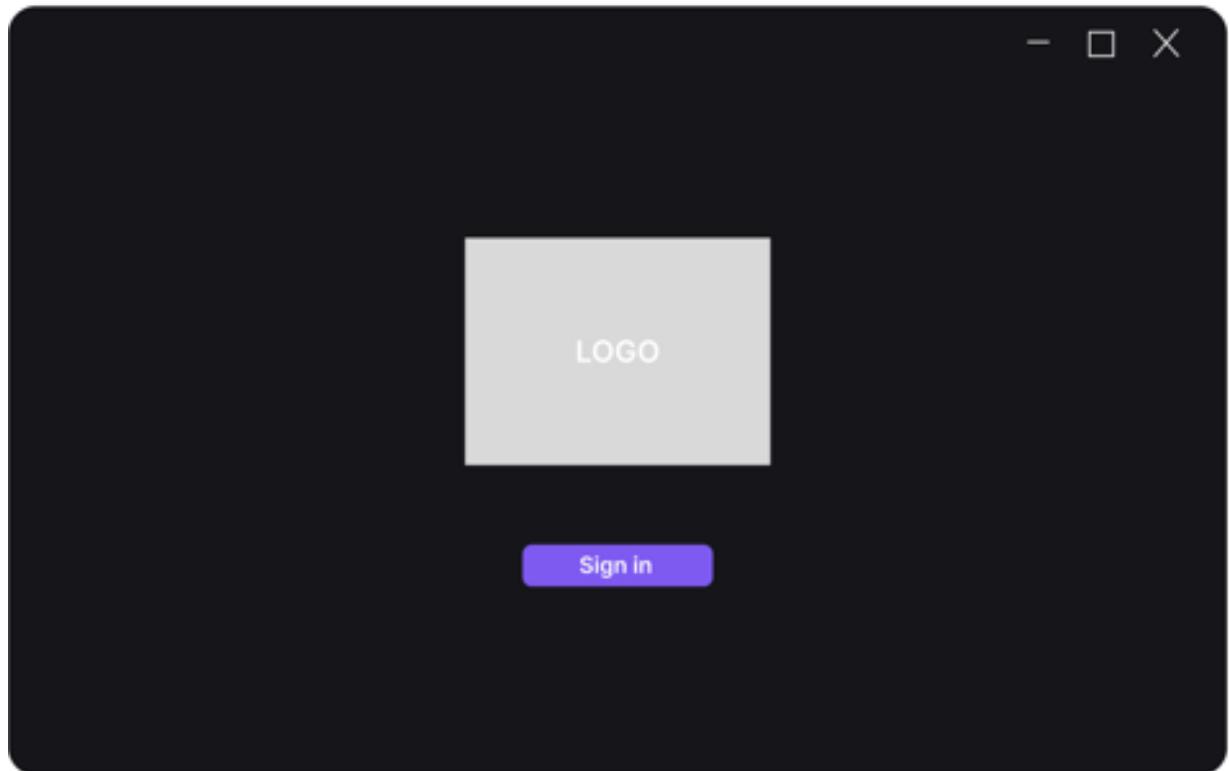
# WEB APP DESIGN

Three-Tier Architecture

Front End

Processing Tier

Back End



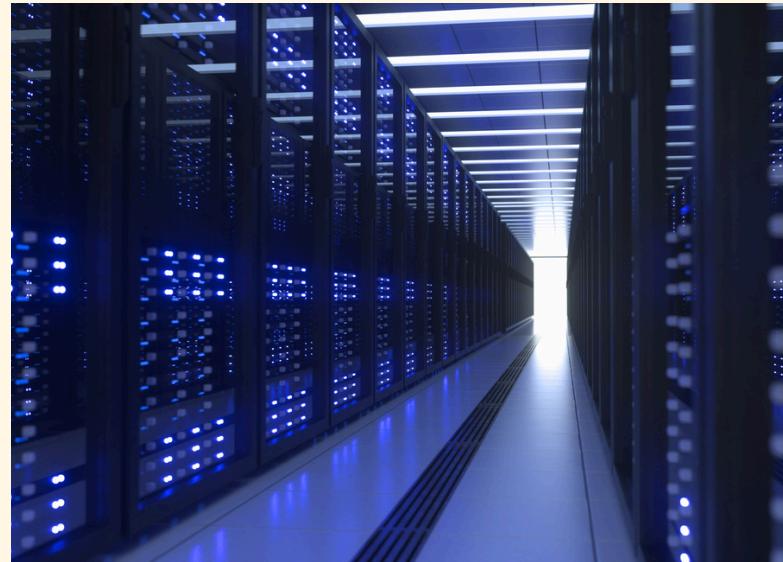
# *workflow* **HIGHLIGHTS**



User Interaction



Data processing



Storage and Retrieval

# Development **PROCESS**

Front End Development

Processing Tier Development

Back End Development



## Full power access from anywhere

Manage your Google Cloud resources with the flexibility of a Linux shell. Cloud Shell provides command-line access to a virtual machine instance in a terminal window that opens in the web console.

- ✓ Provisioning your Cloud Shell machine
- ✓ Connecting to your Cloud Shell instance
- ↳ Connecting to your Cloud Shell Editor



# DEPLOYMENT PLAN

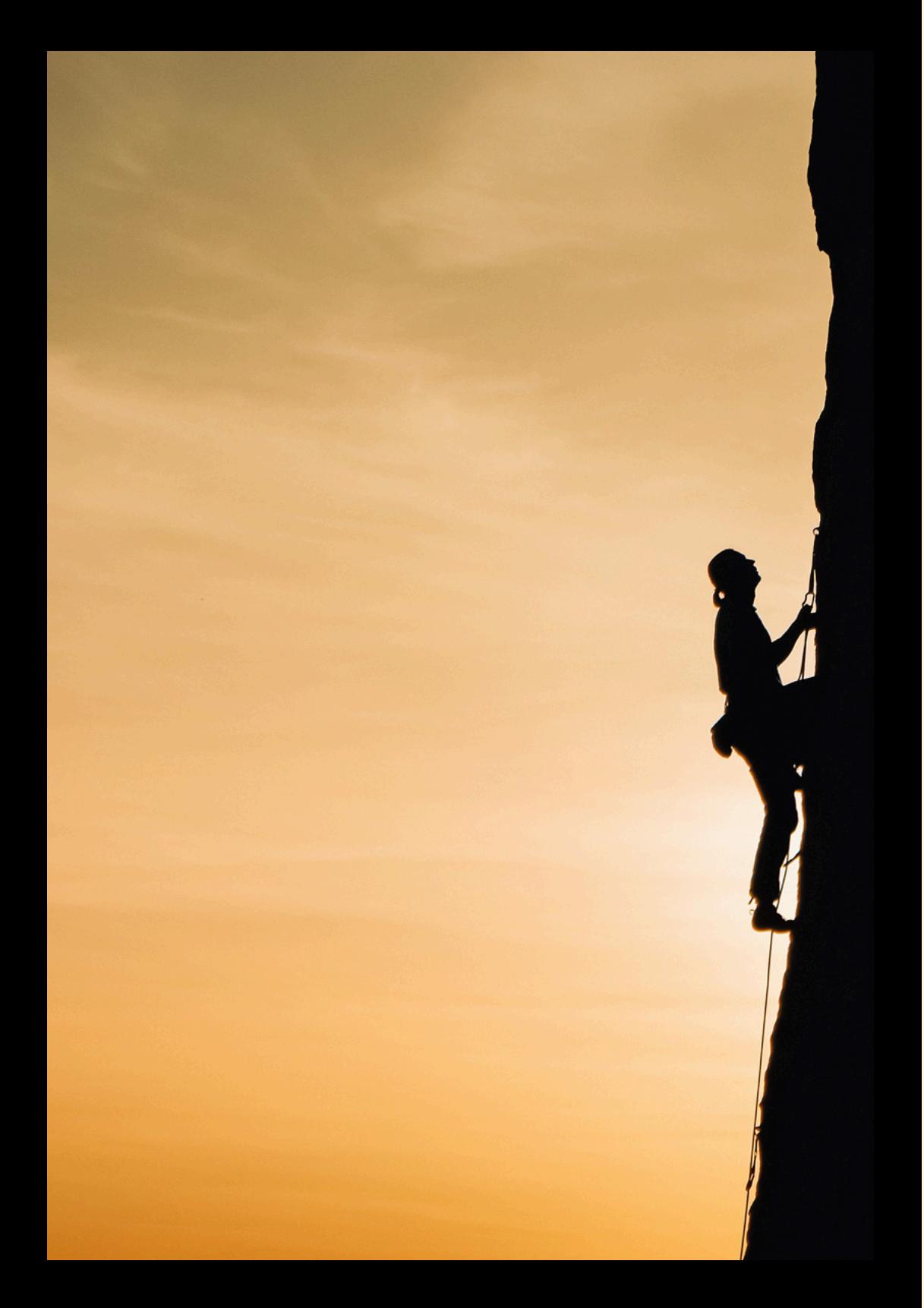
**Hosted on Google App Engine for automated scaling.**

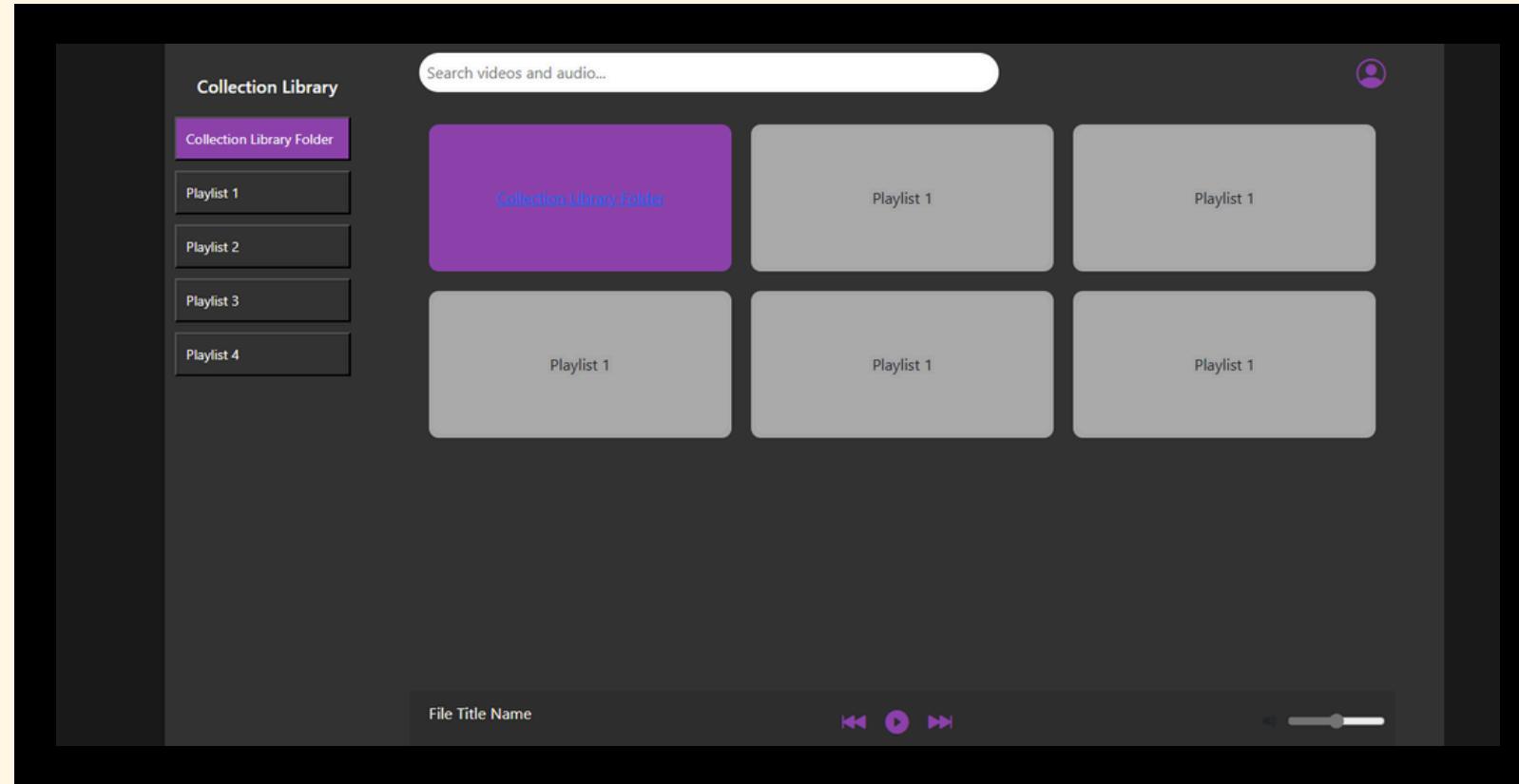
**Combines Google Cloud Storage and SQL for efficient data and file handling.**

**Google Cloud CDN ensures fast, reliable media delivery.**

# CHALLENGES

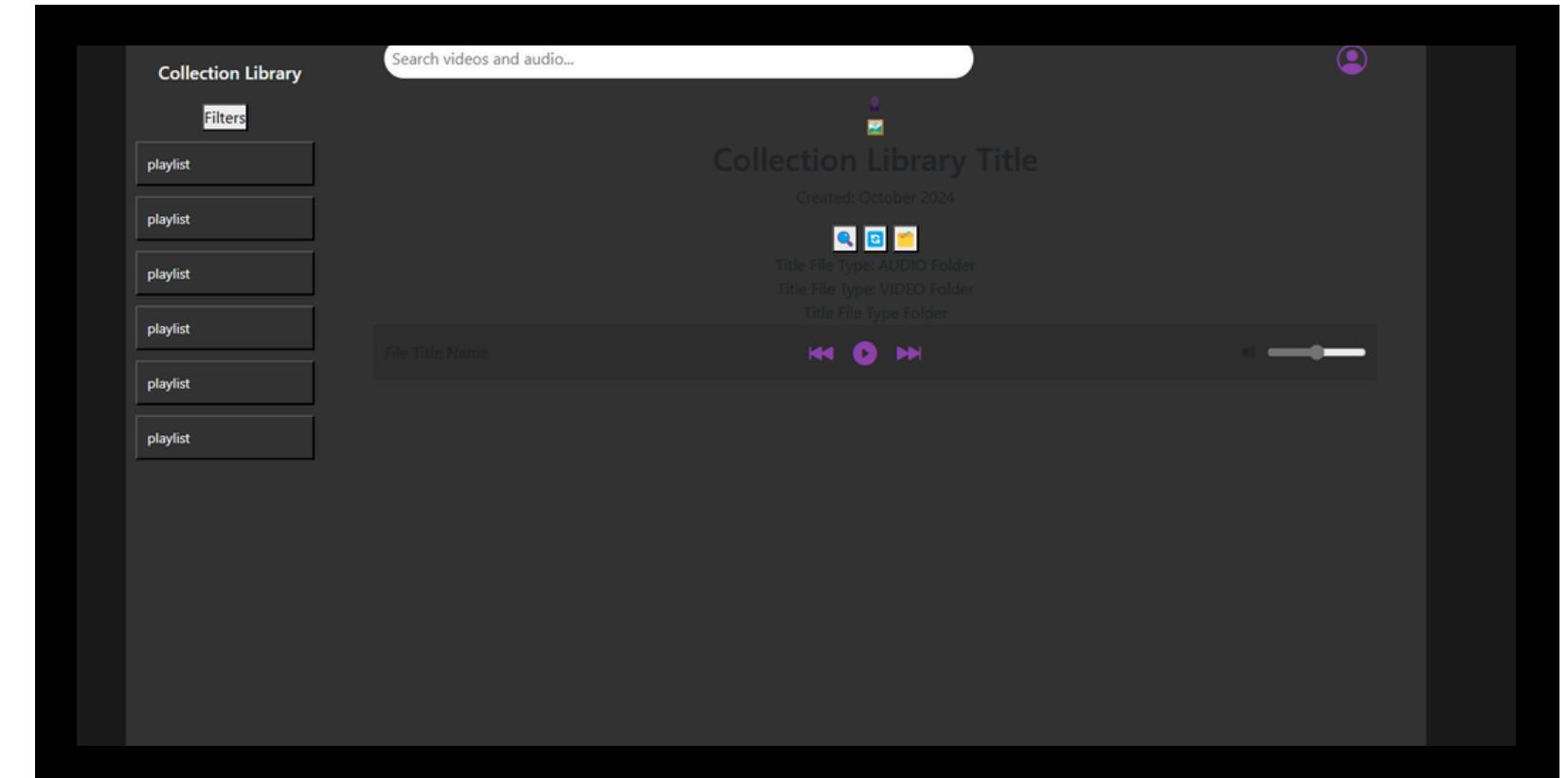
- Designing a scalable database schema for large multimedia collections.
- Optimizing UI for responsive, accessible performance across all devices.
- Implementing offline capabilities for seamless media interactions.





# FUTURE ENHANCEMENTS

- Expanding offline features to include cached playback.
- Adding personalized content recommendations using AI-driven algorithms.
- Refining UI to achieve WCAG compliance, ensuring inclusivity for all users.



# ~~Security~~ ~~&~~ PWA FEATURES

- Security: HTTPS, role-based access, and encryption safeguard user data.
- Offline caching with service workers.
- Push notifications for updates and recommendations.



High Quality



Best Product



Great Design



Nice Decoration