**Software Requirements Specification (SRS)**

**Project Name**: Open-License Media Search Web App  
**Date**: 24/04/2025

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**1. Introduction**

**1.1 Product Scope**

A full-stack web application for searching open-license images and audio, allowing users to register, search media, save and manage recent searches

**1.2 Product Value**

* Simplifies access to open-license media
* Enables user-specific personalization (recent searches)

**1.3 Intended Audience**

* General users looking for open-license media

**1.4 Intended Use**

* Accessed via web browsers
* Used to search and browse media

**1.5 General Description**

The system consists of:

* **Frontend** in React
* **Backend** in Flask
* **Media integration** via Openverse API

**2. Functional Requirements**

* User registration/login/logout
* Search functionality for open-license audio/images
* Save, delete, and retrieve recent searches
* Display media thumbnails/audio previews

**3. External Interface Requirements**

**3.1 User Interface**

* Pages: Landing, Register, Login, Home, Search, Recent Searches

**3.2 Hardware Interface**

* Web-based, so any device with a modern browser

**3.3 Software Interface**

* RESTful API between frontend and backend
* Openverse API integration

**3.4 Communication Interface**

* HTTPS for secure communication
* API requests using RESTful conventions

**4. Non-functional Requirements**

**4.1 Security**

* JWT for authentication

**4.2 Capacity**

* Store up to 10 recent searches per user

**4.3 Compatibility**

* Compatible with Chrome, Firefox, Edge, Safari

**4.4 Reliability**

* CI pipeline with test automation ensures stability

**4.5 Scalability**

* Scalable using Docker and modular services

**4.6 Maintainability**

* Modular backend codebase

**4.7 Usability**

* Clean interface
* Advanced search and filtering