

Software Engineering Assignment

- design, develop, evaluate and document a comprehensive web application for searching open-license media

Deliverables:

- A public GitHub repository with complete source code, documentation and evidence of required engineering practices
- A detailed project report (PDF)
- A 5-minute video demonstration of the artefact

The artefact:

1. Provides a robust user account management system with
 - a. User registration and authentication
 - b. Ability to manage (save, retrieve, delete, etc) recent searches in the application
 - c. Secure user data handling
2. Implements a full-featured media search interface
 - a. Integration with Openverse API (<https://api.openverse.org/v1/>) for searching and retrieving openly-licensed media.
 - b. Graphical web interface for searching and browsing media
 - c. Advanced search and filtering capabilities
 - d. Ability to play and display media results
3. Demonstrates software engineering best practices
 - a. Modular and scalable architecture using well established design patterns and OOP principles
 - b. Containerisation with Docker
 - c. Automated building strategy
 - d. Automated testing strategy
 - e. Clean, well-documented code
 - f. Efficient API integration with Openverse and any other API services you would like to use (for example, for OAuth 2.0)
4. Provides a comprehensive documentation enabling re-use and extensions.