**Project Overview**

Developed a comprehensive Spring Boot backend application for a digital music platform that enables users to browse, purchase, and download music while allowing artists to upload and manage their content.

**Key Features Implemented**

* **User Management System**: Built registration, authentication, and profile management for both consumers and artists
* **Music Content Management**: Created systems for artists to upload songs with complete metadata and file management
* **E-commerce Functionality**: Implemented purchase transaction processing for digital music content
* **Download Management**: Developed secure download capabilities for purchased content with tracking mechanisms
* **Database Integration**: Designed and implemented MySQL database schema with entity relationships managing users, artists, music, purchases, and downloads

**Technical Implementation**

* **Spring Boot Architecture**: Utilized layered architecture (models, repositories, services, controllers) following best practices
* **JPA/Hibernate ORM**: Implemented data persistence with Spring Data JPA repositories
* **RESTful API Design**: Created comprehensive API endpoints for all system functionalities
* **Service-Layer Processing**: Built business logic in service components with proper separation of concerns
* **Object-Relational Mapping**: Designed entity relationships with appropriate cardinality (one-to-many, many-to-many)

**Skills Demonstrated**

* Java Spring Boot development
* Database design and implementation
* RESTful API architecture
* Service-oriented programming
* Digital content management