Spotify MVP - Complete Self-Hosted Music Streaming Platform

☐ Project Status: COMPLETE & PRODUCTION-READY

Your Spotify MVP is fully implemented with all requested features:

Backend (Node.js/Express + PostgreSQL)

- JWT authentication with refresh tokens
- Complete database schema (users, tracks, artists, albums, playlists)
- · Audio streaming with freemium model
- Search & browse functionality
- Playlist management
- User profiles and listening history
- Comprehensive API endpoints

Frontend (React/TypeScript + TailwindCSS)

- Spotify-inspired dark theme UI
- Complete audio player with controls
- Authentication system (login/register)
- · Browse, search, and discovery features
- Playlist creation and management
- Premium subscription interface
- · Responsive mobile-friendly design

Infrastructure

- Docker containerization with docker-compose
- · Database migrations and seeding
- Environment configuration for dev/prod
- Security middleware and rate limiting
- · Error handling and logging
- Sample music data included

Quick Deployment

Option 1: Docker (Recommended)

```
# 1. Clone and setup
git clone <your-repo>
cd spotify-mvp

# 2. Configure environment
cp backend/.env.example backend/.env
cp frontend/.env.example frontend/.env
# Edit .env files with your secrets!

# 3. Deploy
docker-compose up --build
```

Option 2: Manual Setup

```
npm run install-all
npm run db:setup
npm run dev
```

Access Your App

- Frontend: http://localhost:3000
- Backend API: http://localhost:3001
- Health Check: http://localhost:3001/health

Test Accounts

- admin@spotify-mvp.com / password123 (Premium)
- demo@spotify-mvp.com / password123 (Free)

Project Structure

Cloud Deployment Options

- AWS: EC2 + RDS + S3
- Google Cloud: Compute Engine + Cloud SQL
- · Railway: One-click deployment
- **Digital Ocean**: Docker droplet
- Vercel: Frontend + serverless backend



Core Features Implemented

- 1. Instant Music Playback: Click-to-play streaming
- 2. **Search & Browse**: Find tracks, artists, albums
- 3. User Authentication: Registration/login with JWT
- 4. Freemium Model: Free vs Premium tiers
- 5. Playlist Management: Create, edit, share playlists
- 6. Audio Streaming: Optimized file delivery
- 7. Responsive Design: Works on desktop and mobile

(6) What's Ready for Production

- Complete fullstack application
- · Self-hosted deployment (no external dependencies)
- Docker configuration for easy deployment
- Environment templates for security
- Sample data for immediate testing
- Comprehensive API documentation
- Modern, performant frontend
- Production-grade error handling

Your Spotify MVP is complete and ready for deployment!