**CG-SPOTIFY**

Contents

[I. Program Description 2](#_Toc154479208)

[II. Overview: 2](#_Toc154479209)

[III. Key Features: 2](#_Toc154479210)

[1. User Authentication: 2](#_Toc154479211)

[2. Music Catalog: 2](#_Toc154479212)

[3. Search and Discovery: 2](#_Toc154479213)

[4. Playlist Management: 2](#_Toc154479214)

[5. Purchase subscription package 2](#_Toc154479215)

[6. Purchase Album, Song Digital or Hard-Copy 2](#_Toc154479216)

[7. Streaming (key function): 2](#_Toc154479217)

[8. Social Integration: 2](#_Toc154479218)

[9. Notifications: 2](#_Toc154479219)

[10. Admin Panel: 3](#_Toc154479220)

[11. Responsive Design: 3](#_Toc154479221)

[IV. Members with function 3](#_Toc154479222)

1. Program Description: Music Streaming Web Application

# Overview:

Create a Java Spring web application that serves as a music streaming platform, similar to Spotify. The application allows users to discover, listen to, and manage their favorite music seamlessly. Employing the Spring framework ensures robustness, scalability, and maintainability.

# Key Features:

## User Authentication:

* Users can create accounts and log in securely.
* Password encryption and user authentication using Spring Security.

## Music Catalog:

* A comprehensive catalog of music tracks, albums, and artists.
* Integration with external APIs or a database to fetch and update music data.

## Search and Discovery:

* Advanced search functionality to find tracks, albums, and artists.
* Personalized recommendations based on user listening history and preferences.

## Playlist Management:

* Users can create and manage playlists to organize their favorite songs.
* Collaborative playlists for sharing music with friends.

## Purchase subscription package

* Users can purchase subcription package, paying monthly, quarterly or yearly. While in subscription, user can listen to all the songs available in Spotify

## Purchase Album, Song Digital or Hard-Copy

* Users can purchase their favourite songs. The songs can be save to permanent playlist or send to user address as hard copy for collection

## Streaming (key function):

* Seamless audio streaming with support for different audio formats.
* Play, pause, skip, and control volume functionalities.

## Social Integration:

* Social features, such as following other users, sharing playlists, and liking tracks.
* User profiles displaying listening history, playlists, and followers.

## Notifications:

* Real-time notifications for new releases, friend activities, and playlist updates.

## Admin Panel:

* An admin panel for managing users, content, and resolving issues.

## Responsive Design:

* Mobile-friendly and responsive UI for a consistent experience across devices.

# Members with function

* Giang 2, 3, 7, 11
* Huy 4, 5, 6, 11
* Son 1, 8, 9, 10, 11