Functional Requirements Document – SOTD

*Document Modification History*

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| **Version** | **Date** | **Author** | **Description** |
| 1.0 | 01/09/2023 | Ryan Tavares | Initial Version |
| 1.1 | 04/26/2024 | Ryan Tavares | Reduced Scope – Spotify & Android only, Removed voting system |
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**1. General**

**1.1. Project Description**

SOTD, or Song of the Day (tentative name), is an android mobile application that uses the functionality of the Spotify Web API to generate and serve one song recommendation per day. The user can improve the recommendations they receive by adjusting settings within the app.

**1.2. Background**

Spotify will offer countless recommendations in its app, but at times there are so many options that it’s hard to know where to begin searching for new music.

**1.3. Purpose**

SOTD is meant to assist Spotify listeners with discovering new music. This app will gently guide users who have a desire to develop their taste in music.

**1.4. Scope**

The plan is to develop this mobile application for the Android operating system and to integrate with the Spotify Web API.

The application will be in a satisfactory state when it is able to reliably interact with the Spotify Web API to serve the user one song recommendation from Spotify each day, allow the user to adjust song recommendation settings, and save a history of previous song recommendations.

The application should be in a satisfactory state by the end of 2024.

**1.5. Points of Contact**

Ryan Tavares – Project Manager

Ryan Tavares – Developer

**2. Functional Requirements**

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| ID | REQUIREMENT STATEMENT | COMMENTS |
| FR-1 | Users can link their Spotify account. |  |
| FR-2 | The app shall serve song recommendations via integration with the Spotify Web API. |  |
| FR-3 | The app shall serve song recommendations on a timer. |  |
| FR-4 | Users can play recommended songs remotely through the app. |  |
| FR-5 | Users can open the recommended song in the Spotify app on the user’s device. |  |
| FR-6 | Users can adjust which song properties their song recommendations should prioritize. | Available song properties are determined by the Spotify API. |
| FR-7 | Users can choose which genres will be included/excluded from their song recommendations. | Available genres are determined by Spotify/Apple Music API. |
| FR-8 | The app will keep a limited running history of previous song recommendations. |  |

**3. Non-functional Requirements**

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| ID | REQUIREMENT STATEMENT | COMMENTS |
| NFR-1 | New users will be given a one-time briefing on the purpose of the app and the way that the app works. |  |
| NFR-2 | New users will be asked if they want to enable push notifications. |  |
| NFR-3 | If the user gives permission, push notifications will be sent to the user's device to notify the user when a new song recommendation is served. |  |
| NFR-4 | Users can toggle push notifications in the settings. |  |
| NFR-5 | Upon opening the app, the recommended song’s title, artist, and cover art will be presented to the user. |  |