Functional Requirements Document – SOTD

*Document Modification History*

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| **Version** | **Date** | **Author** | **Description** |
| 1.0 | 01/09/2023 | Ryan Tavares | Initial Version |
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**1. General**

**1.1. Project Description**

SOTD, or Song of the Day (tentative name), is a mobile application that uses the functionality of the Spotify API or the Apple Music API to generate and serve one song recommendation per day. The user can improve the recommendations they receive by up-voting songs they liked, down-voting songs they didn’t like, and adjusting settings within the app.

**1.2. Background**

Spotify and Apple Music will offer countless recommendations on their respective apps, but at times there are so many options that it’s hard to know where to begin.

**1.3. Purpose**

SOTD is meant to assist Spotify and Apple Music listeners in developing their existing tastes and in discovering new ones. This app will gently guide users who have a desire to discover new music.

**1.4. Scope**

The plan is to develop this application for both the Android and iOS platforms. However, priority is being given to the development of the Android version as that is the platform I’m most familiar with. The iOS version is more of a “want” than a “need.”

Similarly, the plan is to integrate with both the Spotify API and the Apple Music API. However, priority is being given to integration with the Spotify API as the Spotify API and platform is the one I’m most familiar with. Integrating the Apple Music API is also more of a “want” than a “need.”

In other words, a completed Android app that only has Spotify API functionality is a successful project. I’m prioritizing Android/Spotify as I am the sole developer and I am in the midst of a job search.

**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 or their Apple Music account. | Priority on implementing Spotify functionality. |
| FR-2 | The app shall serve song recommendations via integration with the API of the user's chosen streaming service. | Priority on implementing Spotify functionality. |
| FR-3 | The app shall serve song recommendations on a timer. |  |
| FR-4 | Users can play recommended songs directly through the app. | May only allow previews instead of full songs. |
| FR-5 | Users can open the recommended song in the user's chosen streaming service app. | via Spotify/Apple Music API integration. |
| FR-6 | Users can up-vote or down-vote the recommended song they were served. |  |
| FR-7 | The app shall log which songs are up-voted, which songs are down-voted, and which songs do not receive a vote. |  |
| FR-8 | Users can adjust which song properties their song recommendations should prioritize. | Available song properties are determined by Spotify/Apple Music API. |
| FR-9 | The app should improve future song recommendations based on the properties of the songs that the user has up-voted or down-voted. | Available song properties are determined by Spotify/Apple Music API. |
| FR-10 | Users can choose which genres will be included/excluded from their song recommendations. | Available genres are determined by Spotify/Apple Music API. |
| FR-11 | The app will keep a running history of all song recommendations. |  |

**3. Non-functional Requirements**

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| ID | REQUIREMENT STATEMENT | COMMENTS |
| NFR-1 | Android and iOS versions. | Priority on developing Android version. |
| NFR-2 | New users will be given a one-time briefing on the purpose of the app and the way that the app works. |  |
| NFR-3 | New users will be asked if they want to enable push notifications. |  |
| NFR-4 | 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-5 | Users can toggle push notifications in the settings. |  |
| NFR-6 | Upon opening the app, the previous recommendation should be in immediate view of user. | This gives the user another chance to up/down-vote the song in case they forgot to. |