[Web API | Spotify for Developers](#)

Functional

- The application integrates with the Spotify API in order to:
    - Access Spotify's catalog of music
    - Link with user accounts to access and import playlists
- User profiles:
    - Users can create an account with an email and password
    - The application will integrate with platforms like Google, Facebook, and Apple to simplify account creation
    - Users must choose a username
    - Users can optionally include a profile picture
- Users will be able to create and share playlists
    - Users can create custom playlists with a name and a privacy setting
    - The application will offer auto-generated playlists (highest rated/favorites, recently added, recently played, mood playlists)
    - Users can tag songs and use these tags to create playlists
    - Users can add songs from search, recommendation, discovery, and import from existing playlists (spotify)
- Users will have various methods available to rate songs
    - Out of 10
    - Like/dislike
    - Written reviews
- Users can interact with friends through the app
    - Follow other profiles to become friends
    - See an activity feed of friends' ratings
    - Collaborate with friends to create shared playlists
    - Give and receive song recommendations between friends
- Discovery
    - The application will include a song and playlist search function
        - The search function will include autocomplete, advanced filters, and voice search
    - The application will recommend songs based on ratings
    - The application will offer genre-based playlists, 'trending' playlists, artist radio, and a discovery mode
- The application is available via the web and as a mobile app
- Users can view statistics based on their ratings such as:

- Most liked songs in an album
- Most liked artists

Non-Functional

- The application loads in under 2 seconds
- Accessibility
    - The application supports screen readers
    - The application follows WCAG Web Content Accessibility Guidelines
    - The application is navigable by keyboard
    - The contrast and font is readable
- The application handles peak traffic without performance degradation
- The application validates and sanitizes input to ensure security
- Users are authenticated (multi-factor) when creating accounts
- Sensitive data (user data) is encrypted in transmission
- The application adheres to the appropriate regulations (GDPR, CCPA) for user data protection
- UX/UI
    - The application is readable, visually appealing, and engaging
    - The application adapts to various devices
    - Users can easily navigate and interact with the application
    - Feedback is clear and instantaneous
- Rate limits
    - The application accounts for the rate limits imposed by the Spotify API