

## Functional

- **FR 1:** User profiles:
  - **FR 1.1:** Users can create an account with an email and password
  - **FR 1.2:** The application will integrate with platforms like Google, Facebook, and Apple to simplify account creation
  - **FR 1.3:** Users must choose a username
  - **FR 1.4:** Users can optionally include a profile picture
- **FR 2:** Users will be able to create and share playlists
  - **FR 2.1:** Users can create custom playlists with a name and a privacy setting
  - **FR 2.2:** The application will offer auto-generated playlists (highest rated/favorites, recently added, recently played, mood playlists)
  - **FR 2.4:** Users can add songs from search, recommendation, discovery, and import from Spotify
- **FR 3:** Users will have various methods available to rate songs
  - **FR 3.1:** Out of 10
  - **FR 3.3:** Written reviews
- **FR 4:** Users can interact with friends through the app
  - **FR 4.1:** Follow other profiles to become friends
  - **FR 4.2:** See an activity feed of friends' ratings
  - **FR 4.4:** Give and receive song recommendations between friends
- **FR 5:** The application will include a song and playlist search function
  - **FR 5.2:** The application will recommend songs based on ratings
  - **FR 5.3:** The application will offer genre-based playlists, 'trending' playlists, artist radio, and a discovery mode
- **FR 6:** The application is available via the web

## Non-Functional

- **NF1** Data Security
  - **NF1.1:** Sensitive data (user data) is encrypted in transmission
  - **NF1.2:** The application validates and sanitizes input to ensure security
  - **NF1.3:** Users are authenticated (multi-factor) when creating accounts
  - **NF1.4:** User data is protected in accordance with GDPR and CCPA regulations

## **Addendum 11/13/2024**

The following requirements are no longer planned to be completed by the end of the fall semester:

- **FR 2.3:**Users can tag songs and use these tags to create playlists
- **FR 3.2:**Like/dislike song reviews
- **FR 4.3:**Collaborate with friends to create shared playlists
- **FR 5.1:**The search function will include autocomplete, advanced filters, and voice search
- **FR 6:**The application is available via the web and as a mobile app
- **FR 7:**Users can view statistics based on their ratings such as:
  - **FR 7.1:**Most liked songs in an album
  - **FR 7.2:**Most liked artists