

Software Requirements Specification (SRS)

AI Music Recommender System

Snapshot 3 - Social and Collaborative Recommendations

Project Group 5

December 7, 2025

Version Description

Version	Description	Date
3.0	SRS updated for Snapshot 3. Adds social and collaborative recommendation features (follow users, friends' picks).	December 7, 2025

1 Introduction

1.1 Purpose

This SRS extends Snapshots 1 and 2 by specifying social and collaborative recommendation features, allowing users to follow other users and receive recommendations influenced by community listening patterns.[web:14][web:17]

1.2 Scope

Snapshot 3 adds follow relationships, friends' playlists, and collaborative recommendation logic while maintaining all previously implemented features.

2 New Functional Requirements

2.1 Follow System

- FR-S1: The system shall allow a logged-in user to follow another user.
- FR-S2: The system shall allow a user to unfollow a previously followed user.
- FR-S3: The system shall display a list of users that the current user follows.

2.2 Friends' Picks / Collaborative Recommendations

- FR-S4: The system shall display a “Friends' Picks” or similar section with songs liked by followed users.
- FR-S5: The system shall update the “Friends' Picks” section when followed users like new songs.
- FR-S6: The system shall use collaborative information (e.g., similar users' likes) to supplement content-based and mood-based recommendations.[web:14][web:19]

2.3 Privacy and Control

- FR-S7: The system shall only share non-sensitive activity (e.g., liked songs) as part of social features.
- FR-S8: The system shall allow users to view which parts of their activity are visible to followers.

3 Non-Functional Requirements (Snapshot 3)

3.1 Performance

- NFR-S1: Generating the “Friends' Picks” list should complete within a few seconds for a typical number of followed users.

3.2 Usability

- NFR-S2: Follow/unfollow controls shall be clearly labeled and accessible from user profile or recommendation screens.

4 Legal and Ethical Considerations

Social features introduce additional privacy considerations, and the system shall inform users that their liked tracks may be visible to followers while avoiding exposure of personal identifiers beyond the project requirements.[web:14]