User Acceptance Testing

Date	17/04/2025
Team ID	SWTID1744376795
Project Name	Tune Trails
Maximum Marks	

Project Overview

Project Name:

Tune Trails (Music Streaming App)

Project Description:

Tune Trails is a full-stack MERN (MongoDB, ExpressJS, ReactJS, NodeJS) application designed to provide users with a seamless music streaming experience. It allows users to explore, play, and manage music online, with features for personalized playlists, favorites, and recommendations. An admin panel enables management of songs, albums, and artists.

Project Version:

1.0

Testing Period:

01/04/25 to 16/04/25

Testing Scope

- User Registration & Login (User/Admin)

- Music Listing and Categorization

- Song, Album, and Artist Browsing

- Playlist Creation and Management

- Music Playback and Streaming

- Favorite Songs & Personalized Recommendations

- Admin Dashboard (Song/Album/Artist Management)

- Role-based Access Control

User Stories or Requirements to be Tested

- As a user, I want to browse and stream songs securely.

- As a user, I want to mark my favorite songs and see recommendations.

- As a user, I want to create and manage playlists.

- As an admin, I want to manage songs, albums, and artists.

- As a user/admin, I want to login securely with hashed passwords.

- As a user, I want to view my listening history.

Testing Environment

URL/Location:

http://localhost:5173 (Frontend), http://localhost:4000 (Backend)

Credentials:

- User: user@gmail.com / user@123

- Admin: admin@gmail.com / admin

Test Cases

Test Case ID	Test Scenario	Test Steps	Expected Result	Actual Result	Pass/Fail

TC-001	User Registration	1. Navigate to Register page 2. Fill form 3. Submit	User is registered and redirected to login	As expected	Pass
TC-002	User Login	1. Go to Login 2. Enter valid credentials 3. Submit	Redirected to homepage and token stored in cookies	As expected	Pass
TC-003	Browse Music	1. Login 2. View home page	Song and album cards with categories are displayed	As expected	Pass
TC-004	Music Playback	1. Click on song 2. Press play	Song plays in audio player, playback controls visible	As expected	Pass
TC-005	Add to Favorites	1. Click favorite icon on song card	Song added to favorites list	As expected	Pass
TC-006	View Listening History	1. Go to listening history	List of previously played songs with details shown	As expected	Pass
TC-007	Playlist Creation	1. Create new playlist 2. Add songs	Playlist created and songs added successfully	As expected	Pass

TC-008	Admin Login	1. Use admin credentials 2. Login	Redirected to admin dashboard	As expected	Pass
TC-009	Admin Add Song/Album	1. Go to Songs/Albums tab 2. Add new song/album	Song/Album added to DB and reflected in listings	As expected	Pass
TC-010	Role-based Access	1. User tries to access admin route	Access denied or redirected	As expected	Pass
TC-011	Recommendations Update	1. Listen to songs 2. View recommendations	Personalized recommendations updated	As expected	Pass

Tracking of Bug

Bug ID	Bug Description	Steps to Reproduce	Severity	Status	Additional Feedback
BG-001	Favorites not updating immediately	1. Add to favorites 2. Reload page	Medium	Closed	Resolved using useEffect to re-fetch

BG-002	Playlist creation fails on empty name	1. Try to create playlist with no name	High	Closed	Validation added for playlist name
BG-003	Admin dashboard slow on first load	1. Login as admin 2. Go to dashboard	Low	In Progress	Consider using pagination/lazy loading
BG-004	Login token expires abruptly	1. Login 2. Wait 5-10 min 3. Use app	High	Closed	Increased token expiry time
BG-005	No error on wrong credentials	1. Login with incorrect credentials	Medium	Closed	Error toast message added