

ACKNOWLEDGEMENT

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emo tagger

MUSIC PLATFORM

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LISTEN AND TAG !



INTRODUCTION

Problem Statement:

Music platforms lack effective tools to understand the emotional impact of songs on listeners.

Background / Related Work:

Existing systems focus on audio features or user preferences but rarely involve emotional tagging by users or communities.

Solution Statement:

Emo Tagger is a community-based platform where users tag songs with emotional labels. These labels are used to train AI models that help refine and enhance the emotional tagging process.

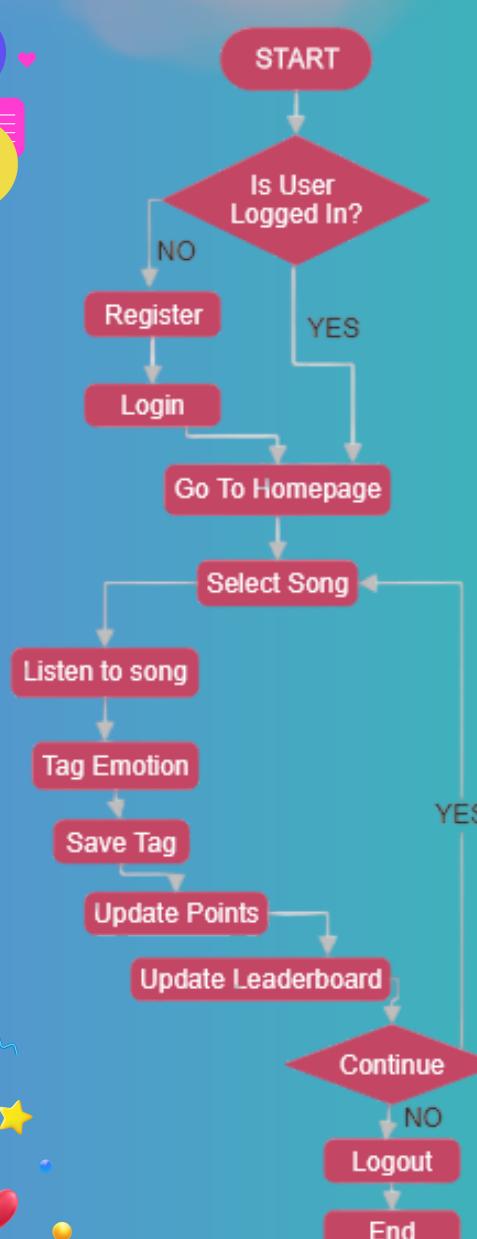
Contribution:

Emo Tagger creates a hybrid emotion-tagging system combining human insight and AI analysis, supporting research in music psychology, recommendation systems, and emotional computing.

SOLUTION

ABSTRACT

Emo Tagger is a community-based platform designed to explore the emotional impact of music through collective tagging and AI-driven refinement. While traditional music platforms focus on audio similarity or genre, Emo Tagger enables users to tag songs based on their emotional experiences. These crowd-labeled emotional tags form the foundation of a high-quality dataset. AI modules trained and improved using this user-generated data. By learning from community input, Emo Tagger produces a more accurate and nuanced emotional dataset. This hybrid approach supports research in music psychology, emotion-aware recommendation systems, and the development of human-centered emotional AI applications.



Emo Tagger offers a hybrid approach to emotional music tagging by combining user-generated input with AI-enhanced analysis. Users listen to music and assign emotional labels based on their personal experiences. These community-generated tags form the basis of a growing emotional dataset, which is used to train and improve AI modules for more accurate emotion prediction. This approach enables richer emotional data collection and deeper insights into how music affects listeners. The web-based platform also includes gamification elements to encourage user participation and engagement. The system was developed using ASP.NET MVC, PostgreSQL, HTML, CSS, and JavaScript, and leverages TensorFlow and Librosa to analyze musical features (tempo, energy, tone, rhythm), predict emotional tags via a deep learning model, and improve it continuously through active learning based on user feedback.

RESULTS

- Hundreds of songs were tagged by users across diverse emotional categories.
- A strong community-based tagging system formed a rich and consistent emotional dataset.
- AI models were optimized using these crowd-labeled tags, aligning more closely with real emotional responses.
- The system enables emotion-aware recommendations and reliable trend analysis grounded in human emotion data.



OUR TEAM