

Project Proposal

Track: Development Track

Team members:

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Functions and Users: We aim to develop a web-based music recommendation system that integrates music recommendations with concert and album store suggestions. Users will also have the ability to purchase concert tickets directly through the platform. This comprehensive music platform will cater to individuals who enjoy music, wish to attend concerts, and seek to discover offline music activities.

Significance: Our platform addresses a gap in services like Spotify, which primarily focuses on music listening and recommendations. Users will receive personalized concert recommendations and have the convenience of purchasing tickets directly on our platform, eliminating the need to navigate to other ticket platforms like Ticketmaster. Additionally, we will recommend local music activities and album stores, simplifying the discovery process that typically involves extensive searches on platforms like Google Maps.

Approach: The project will be developed using the Django framework, encompassing three main components: music recommendations, activity (concerts and stores) recommendations, and ticket purchasing. The backend will be powered by Python, incorporating libraries for recommendation system algorithms, with the frontend developed in JavaScript and CSS, and MySQL serving as the database.

Evaluation: The effectiveness of our music recommendation system will be tested using open-source music datasets. We will conduct online interactions to assess the system's ability to recommend relevant activities to users. Additionally, the ticket purchasing functionality will be thoroughly tested to ensure users can successfully buy concert tickets through our platform.

Timeline:

- April 12: Finalize the project idea, functions, and required frameworks.
- April 19: Complete the development of the framework and backend components.
- April 24: Finish the frontend development and initiate system testing.
- April 30: Prepare for beta launch and conduct final refinements.

Task Division:

- Backend Development: Bin Wu, Sanket Nagesh Babu Donty
- Frontend Development: Keyuan Chang