



Project and Professionalism

(6CS007)

Project Report

Sarangi

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1. Introduction

Music has this incredible ability to stir my emotions, break barriers and build cultural bridges. Music means a lot to me. It allows us to experience things, connect with others and bring different cultures together. Music isn't just beats it's part of who we are. In Nepal, where our culture is rich and diverse but there are no good platform for Nepali music That's why my final year project called 'Sarangi' aims to create a music website especially for people like me in Nepal.

Finding good music online in Nepal has been a bit difficult for me. The music is here to solve that problem by enhancing our music experience and giving us a place to enjoy quality audio. This is especially important in Nepal where we have a wide variety of music. Tune is like a hub where we can find all my favorite music. Music is more than just listening; It's about bringing people together and supporting artists. The music counts differently for the listener and the artists. This way we not only get to enjoy the music but also support local musicians by giving them a platform to showcase their talent. Sarangi will encourages us to be part of the musical journey by letting us create our own playlists, making us feel connected and engaged.

Sarangi is destined to change the music scene in Nepal for people like who love music that understands the importance of music in our life and meets our unique needs as a Nepali audience. Sarangi promises a digital paradise where we can immerse myself in the rich tapestry of Nepali music as well as western music too with quality audio, personalized playlists, and special features available to me as a listener and artist. Sarangi will not only provide a musical paradise but ensure that local artists are discovered and paid for say about their creativity as well and minimize the use of music through pirated sites.

1.1 Problem Statement

Artist Remuneration: Despite a vibrant music industry in Nepal, artists in Nepal face challenges in getting adequate remuneration for their creativity, leading to financial challenges and a potential deterrent to emerging talent approach.

Music Quality: Existing websites fail to provide consistent and high quality music streaming, leaving users unable to enjoy music.

Lack of a dedicated platform: Nepal does not have a dedicated music website that specializes in the unique music tastes and preferences of its people.

Piracy Issues: The rampant issue of pirated music on various platforms not only undermines the integrity of the artists' work but also hampers the growth of the music industry in Nepal

1.2 Project as a solution

In response to the identified challenges in Nepali music, the proposed solution is to develop a new web application called "Sarangi". Sarangi aims to revolutionize the online music experience in Nepal, providing complete solutions for music enthusiasts and artists. Some of the core functions and specialized functions of this platform include:

- **Listeners:**

Registration and Login: Users can customize their Sarangi experience by creating an account and logging in.

Music Search: Access a broad catalog of music genres and cultural influences.

Playlist creation: Empower users to edit personalized playlists based on ideas, preferences, or topics.

Artist Discussions: Follow artists and stay up to date on their latest releases and projects.

Share: Share music lyrics seamlessly with friends and the music industry.

- **Artists:**

Profile Management: Create an artist profile by registering your name, showcasing their musical portfolio.

Content Upload: Upload, manage and publish original music for audiences to see.

Analytics: Get analytics tools to monitor the performance of uploaded tracks and engagement metrics.

Audience Engagement: Use comments, direct messaging, and other means to connect with audiences.

- **Admin:**

System Monitoring: Monitor the entire system, ensuring smooth operation and efficiency.

Configuration and Configuration: To have system-wide settings and settings for optimal performance.

User management: Manage user accounts, including approval, moderation, and suspension.

Content management: Monitor and benchmark content to ensure compliance with local guidelines.

2. Aims and Objectives

2.1.1. Aims

The main goal of the Sarangi project is to create a user-friendly website for music in Nepal. This website aims to be a place where people can easily discover and enjoy Nepali music, while ensuring that local artists are recognized and compensated accordingly.

2.2. Objectives

- **To find out what people want:**

Once you understand what users want and what technology they need, find out what people are interested in and what tools are needed to create a music website.

- **To try designs:**

Explore programs by creating simple programs and procedures that suit the preferences of the Nepalese audience.

- **To create a website with cool features:**

Create a feature-rich website, make it easy and fun for people to use, and provide Nepali artists with a central venue to showcase their music.

- **To make music analysis easier:**

Create a website where people can easily discover and listen to their favorite songs, create their own playlists, and have a good time exploring Nepali music.

- **To help designers stay current:**

Keep everything fresh and exciting in the world of Nepali music and create a system that allows artists to update their content easily.

- **To get better at creating websites:**

There is a lot to learn about how websites work so that the Sarangi website is smooth and always ready for people to enjoy their favorite music.

- **To document what we did:**

Write a report on how we built the website, the things we did well, the challenges we faced, and the lessons we learned.

3. EXPECTED OUTCOMES AND DELIVERABLES

Upon the successful completion of the Sarangi project, we anticipate the creation of a musical website with several key features. These features are categorized into modules as outlined below:

3.1 Primary Features

3.1.1 Music Exploration

Users can easily search, listen to, and discover a variety of Nepali music. They can create personalized playlists, explore different genres, and enjoy an immersive musical experience.

3.1.2 Artist Profiles and Music Listings

Users can access detailed profiles of Nepali artists, including their background information and a catalog of their music. The platform will be updated by administrators to provide the latest information about artists and their work.

3.1.3 User Account and Playlist Management

Listeners can create accounts to personalize their experience, save favorite songs, and manage their playlists. This module aims to enhance user engagement and provide a tailored music listening journey.

3.1.4 Notification

Users will receive notifications about new releases, artist updates, and platform features. This ensures that users stay informed and engaged with the evolving world of Nepali music.

3.1.5 Support for Local Artists

Sarangi will have a dedicated space for local artists to showcase their work, fostering a platform that not only entertains listeners but also supports and promotes the rich diversity of Nepali musical talent.

3.1.6 Comment and like

Listeners can share their thoughts, leave comments, and rate songs, creating an interactive community that encourages engagement and feedback.

3.1.7 User-friendly Interface Module

Sarangi will feature a user-friendly interface, ensuring that listeners can easily navigate the platform, discover new music, and enjoy a seamless experience.

4. Program risks, threats and contingency plans

As with any business, Sarangi faces potential risks and challenges. Identifying these risks and developing contingency plans are critical to successful project management. Risks and corresponding provisions for future periods are identified.

Risks and Threats:

A limited playlist:

Sarangi may run the risk of not making the Nepali repertoire.

Technical Challenges:

Since this is the first attempt to build a music website, technical aspects present challenges in terms of performance and feature execution.

Shared user consent:

The danger is that the music will take longer to become popular and widely accepted.

Resource limitation:

Insufficient online resources can hinder the completion of the project.

UI and Backend Usage Challenges:

Challenges arise in the design and implementation of the user interface (UI) externally and internally.

User comfort with the web application:

Some users may not feel comfortable using the web application, resulting in potential compatibility issues.

Contingency plans:**Continued playlist expansion:**

Implement a strategy for regularly updating and expanding catalogs, and consider collaborating with artists and music labels to enhance content.

Detailed technical analysis:

Research web development technologies thoroughly, seek guidance from experienced professionals, and continue to develop new skills to effectively tackle technical challenges.

Guidelines for Implementation and Development:

Develop a strong marketing and promotional strategy to raise awareness of the music. Emphasize unique features, benefits, and user-friendliness to encourage early adoption.

Requiring Resources:

Explore additional resources beyond the Internet, such as networking with local orchestras, as well as direct collaborations with artists, and tutoring mentors.

Expert advice on design and implementation:

Consult regularly with experienced designers and manufacturers. Also doing intern in my second Year as a UI/UX Designer will also help me a lot .

Easy-to-use onboarding:

Prioritize user experience (UX) design to make the platform intuitive and user-friendly. Provide tutorials, tool tips, and help options to help users navigate the web application smoothly.

By acknowledging these risks and implementing a corresponding plan, tune aims to minimize potential complications and ensure the success of the project.

5. METHODOLOGY

Agile with Scrum Methodology for Sarangi:



Figure 1 : Agile with Scrum Methodology

Agile with Scrum is the chosen methodology for the Sarangi project, blending the flexibility of Agile principles with the structured approach of Scrum. This methodology emphasizes iterative development cycles, collaborative team efforts, and regular stakeholder involvement to create a dynamic and efficient process for building the musical website. It enables adaptive responses to user feedback, ensuring continual improvement and timely releases of new features.

6. RESOURCE REQUIREMENTS

6.1. Software Requirements

Frontend:

HTML, CSS, JavaScript

Node.js for server-side JavaScript

Backend:

Node.js for backend

Database:

mysql

Design:

Figma for design

6.2. Hardware Requirements

PC with Operating System:

Windows 10

7. WORK BREAKDOWN STRUCTURE

The division of labor chart for the Sarangi project is a systematic representation of work, sub-works, and the job deliverables. It identifies the major elements of a project and breaks them down into well-defined subsections, allowing for effective planning, monitoring, and tracking progress. Each part of the WBS process represents a different level of detail, with specific tasks and subtasks everywhere in the project area.

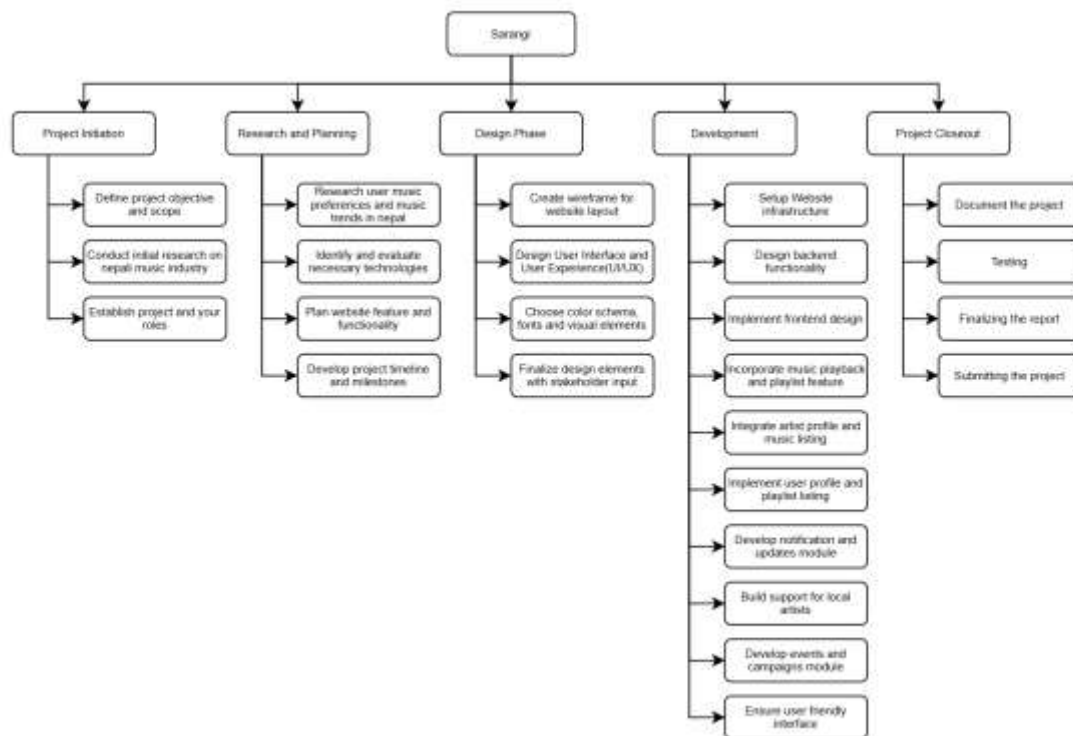


Figure 2: WORK BREAKDOWN STRUCTURE

8. MILESTONE

Saranggi Final Year Planning Essentials:

i. Project Start

Define the scope and objectives of the project

Identify the stakeholders

Plan the project

ii. Research and Planning

Market analysis of consumer preference technical analysis and platform selection

Define Objects and Modules

Create a work schedule and schedule

iii. Theory Phase

User interface (UI) design

Wireframing and prototyping

Database configuration

System architecture design

iv. Progress

Development of the forearm

Homepage layout

About Artists

Application of accounts

Playlist settings management

The development of the top database management

Server configuration

User authentication

API integration

V. Testing

Unit testing

Integration test

User acceptance testing

Error correction and iteration

9. Gantt Chart

Here, bellow is the Gantt chart of my project:



Figure 3: Gantt Chart

10. Conclusions

In conclusion, this proposed project "Sarangi" was born out of a sincere desire to address the pressing issues faced by music lovers and artists in the ever-developing music scene of Nepal which I can understand as being fellow musician and being in IT field.

Identified problems ranging from lack of dedicated platforms to deterioration of quality music, piracy cases and inadequate remuneration for artistes are the impetus behind the growth of Sarangi. This project looks forward to make a big difference in online music experience that doesn't reach genres that are only available to Nepalese. It meets needs but also plays a role in the growth and sustainability of the country's live music scene.

Having focused on combating piracy by providing an enhanced listening experience, separate accounts for listeners and artists, enabling music programming, and ensuring rewards if suitable for artists, Sarangi wants to be a preferred platform for music enthusiasts and artists alike.

By playing music I want to fill the void in the Nepali online music scene by providing a trusted and dedicated platform that fosters a sense of community, encourages cultural mobility and elevate the country music industry to the new heights. The following sections of this proposal will examine the details of the project in more detail, including methods, expected results, resource requirements, and a detailed work classification scheme.