# Scheduling Project - Music Recommendation System

## Project Overview

The Music Recommendation System aims to suggest songs to users based on their listening history, preferences, and similarities to other users or songs. The system will utilize collaborative filtering, content-based filtering, or hybrid recommendation techniques to deliver accurate and personalized music suggestions. The objective is to improve user engagement and satisfaction through intelligent recommendations.

## Identifying Tasks & Resources

### Tasks:

* Requirement Gathering - Identify user needs and system requirements; Define recommendation algorithm approach.
* Design - Create system architecture; UI/UX design for the music recommendation interface.
* Development - Implement backend algorithms for recommendation; Build frontend interface; Integrate database with music metadata.
* Testing - Functional testing; Accuracy testing of recommendations; User feedback collection.
* Deployment - Host application; Release to users; Monitor and maintain the system post-deployment.

### Resources Required:

* Human Resources:
* 1 Project Manager
* 2 Backend Developers
* 1 Frontend Developer
* 1 Data Scientist (for recommendation algorithm)
* 1 Tester
* Technical Resources:
* Laptops/Desktops with development environment
* Cloud hosting service (AWS/Heroku)
* Database (MySQL, MongoDB)
* Music dataset (e.g., Million Song Dataset, Spotify API)
* Version control system (GitHub, GitLab)

## Gantt Chart for Music Recommendation System

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task | Start Date | End Date | Duration | Depends On |
| Requirement Gathering | Aug 5 | Aug 9 | 5 Days | - |
| Design | Aug 10 | Aug 15 | 6 Days | Requirement Gathering |
| Development | Aug 16 | Sep 5 | 21 Days | Design |
| Testing | Sep 6 | Sep 12 | 7 Days | Development |
| Deployment | Sep 13 | Sep 15 | 3 Days | Testing |