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Lovely Professional University, Jalandhar

CA :  
Assignment

Course Code :

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Section - KOC MP



# Software Requirements

## Specification for Gaana.com

### Introduction

Gaana is a music streaming application that provides users with access to millions of songs from various artists & genres. Launched in 2010, Gaana has become one of the most widely used music apps in India, with millions of users enjoying its features.

With Gaana, users can create playlists, download songs for offline listening, rediscover new music based on their preferences, and follow their favourite artists. The app also offers a radio feature that lets users listen to curated playlists based on different genres, moods, and themes.



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Iyana's user-friendly interface, personalized recommendations, and extensive library of songs make it a must-have app for music lovers in India. Whether you want to listen to Bollywood hits, regional music, or international tracks, Iyana has something for everyone.

The software requirements specifications (SRS) document for Iyana outlines the functional and non-functional requirements for the application.



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## Purpose

The primary purpose of this SRS document is to provide a clear and comprehensive understanding of the requirements for the Graana app. This document aims to serve as a reference guide for the development team, project managers, and stakeholders involved in the development process. It provides a common understanding of the app's requirements, which helps in minimizing the risk of misunderstandings and errors during the development process.



# Scope

The Gaana app is a music streaming and downloading application that allows users to access a wide range of Indian and international music tracks, albums, and playlists. The app should be available for both Android and iOS platforms.

The scope of the app includes the following features :-

- 1) User registration and login.
  - 2) Search & browse music tracks, albums, and playlists.
  - 3) Music playback and streaming.
  - 4) Music downloading and offline playback.
  - 5) Creating and managing playlists.
  - 6) Sharing music tracks and playlists.
  - 7) In-app purchase and subscription management.
  - 8) Push notifications for new releases and offers.
  - 9) User profile management.
- \* The app should be developed in compliance with the relevant industry standards & best practices. The app should also be user-friendly, scalable & reliable.

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# Functional Requirements

## 1.1 User registration and login.

- The application must allow users to register and create an account with a unique email ID.
- Users must be able to log in using their email ID and password.

## 2.1 Music Streaming

- Users must be able to search for songs by artist, album, or track name.
- The application must allow users to create playlists & add songs to their playlists.
- Users should be able to play, pause, skip, rewind and fast forward the songs.
- The application should provide users with the option to shuffle & repeat their playlists.

## 3.1 Recommendations :-

- The application must provide personalized music recommendations to users based on genres, moods and themes.

## 4.1 Social Features:-

- Users should be able to follow other users and see their playlists.



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- The application should allow users to share songs, playlists, and recommendations on social media platforms

#### 5.) Payment Gateway :-

- The application must provide users with the option to subscribe to premium plans for ad-free music streaming.
- The application must integrate a secure payment gateway for users to make transactions.



# Non Functional Requirements

## 1.1) Performance :-

- The application must have a fast and responsive interface.
- The music playback should be smooth and uninterrupted.

## 2.1) Security :-

- The application should use secure authentication protocols to protect user data.
- The application must implement measures to prevent unauthorized access to user accounts.

## 3.1) Scalability :-

- The application must be able to handle a large no. of users simultaneously.
- The system should be scalable to accommodate future growth.

## 4.1) Availability :-

- The application should be available 24/7, with minimal downtime for maintenance.

## 5.1) Compatibility :-

- The application should be compatible with popular operating system such as Android, iOS.



# Interface Requirements

- 1.) User interface design:- The app should have an attractive & intuitive user interface design that is easy to navigate & understand.
- 2.) Home Screen:- The home screen should display the app's logo, search bar, and menu options, along with a list of recommended songs, playlists, and albums.
- 3.) Search function:- The app should have a search function that allows users to search for songs, artists, albums, and playlists.
- 4.) Playlists:- Users should be able to create & manage their own playlists within the app, as well as view and listen to playlists created by others.
- 5.) Music player:- The app should have a built-in music player that allows users to play, pause, skip, & rewind and control the volume of songs.



6.) Song details :- The app should display song details such as the artist name, album name, song duration and album artwork.

7.) Recommendations :- The app should be able to recommend songs, artists, and playlists based on the user's listening history and preferences.

8.) Social Media integration :- The app should allow users to share songs, playlists, and albums on social media platforms such as Facebook, Twitter and Instagrams.

9.) Subscription options :- The app should allow users to subscribe to premium features, such as ad-free listening, offline playback and higher audio quality.

10.) Compatibility :- The app should be compatible with different mobile operating systems, such as iOS & android, and should work well on different screen sizes & resolutions.

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# Advantages

- 1) Clear understanding : An SRS document help to clearly define the goals & objectives of the Graana app. It helps to establish a shared understanding of what needs to be developed & what features should be included.
- 2) Helps to manage scope : The SRS document helps to manage the scope of the project. By outlining the features & functionalities, it helps to keep the development team focused on the specific requirements.
- 3) Reduce misunderstandings : An SRS document reduces misunderstandings between the development teams & the client. It provides a common language & a shared understanding of what is expected from the Graana app.

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4.1 Supports Quality Assurance : An SRS document provides a basic for quality assurance. It helps to ensure that the Jaana app meets the requirements of the users , is reliable & secure.

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# Disadvantages

- 1) Time consuming : Creating a comprehensive SRS document can be time consuming. It requires a significant investment of time & resources to gather requirements & document them.
- 2) Can be Inflexible : An SRS document can be inflexible, especially if changes need to be made to the requirements. Changing the SRS document can require additional time & resources.
- 3) May Required Specialized Skills : Developing an SRS document requires specialized skills, such as requirements elicitation and analysis. It may be challenging or organization without these skills to create an effective SRS document.

Teacher Signature

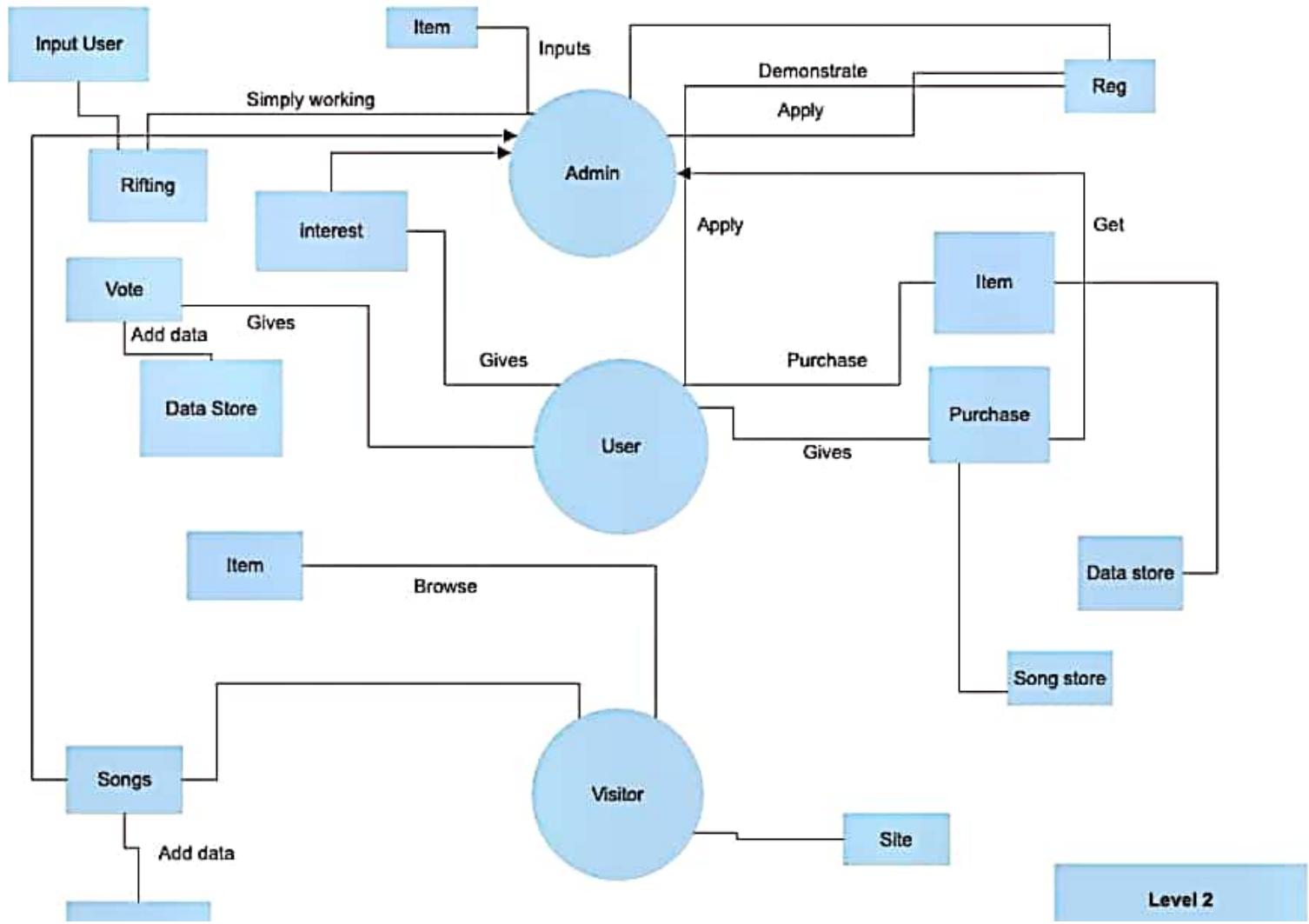
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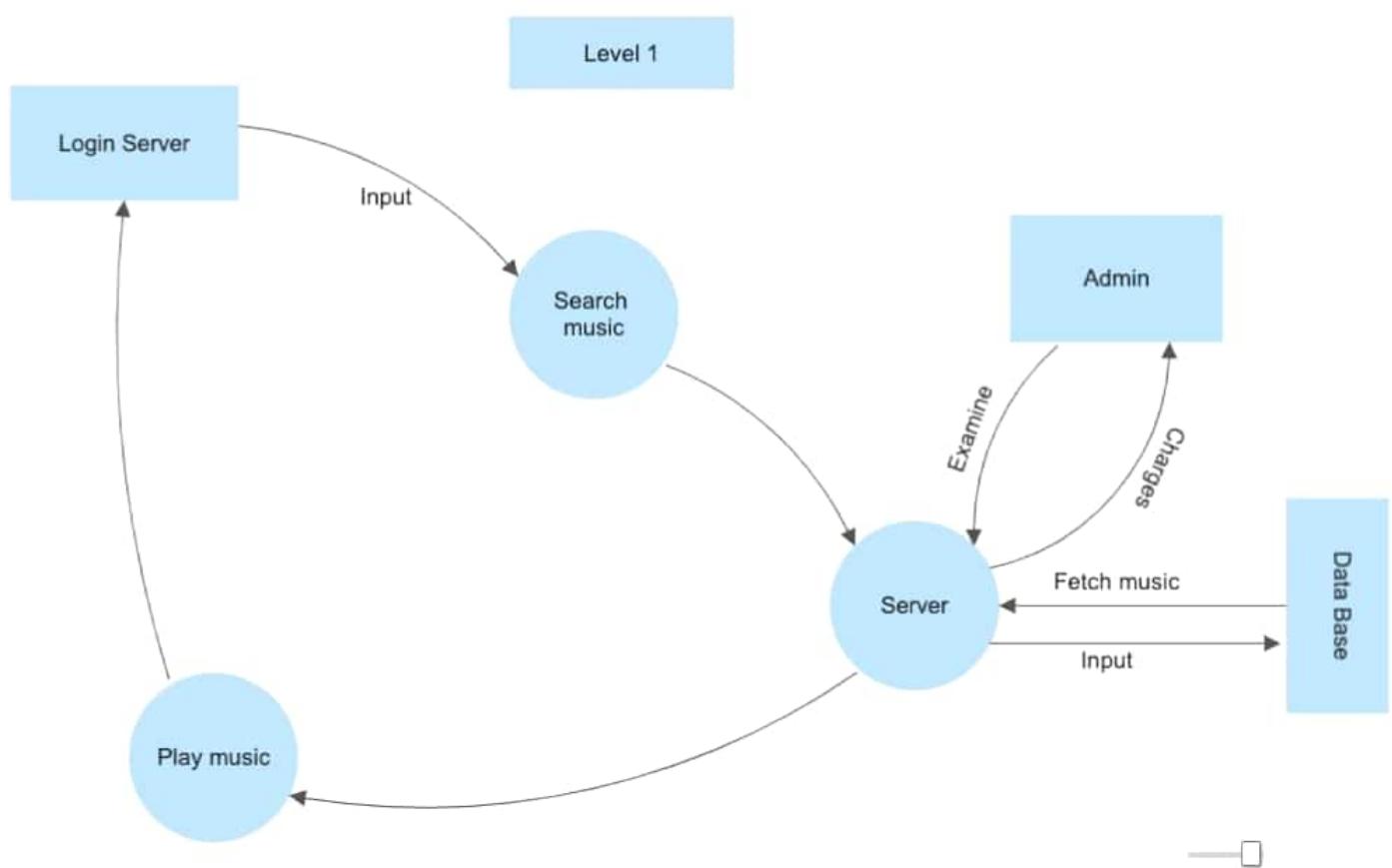
- 4) May not capture all requirements:  
Despite efforts to create a comprehensive SRS document, it may not capture all the requirements of the Graana app. This can lead to gaps in functionality & user dissatisfaction.

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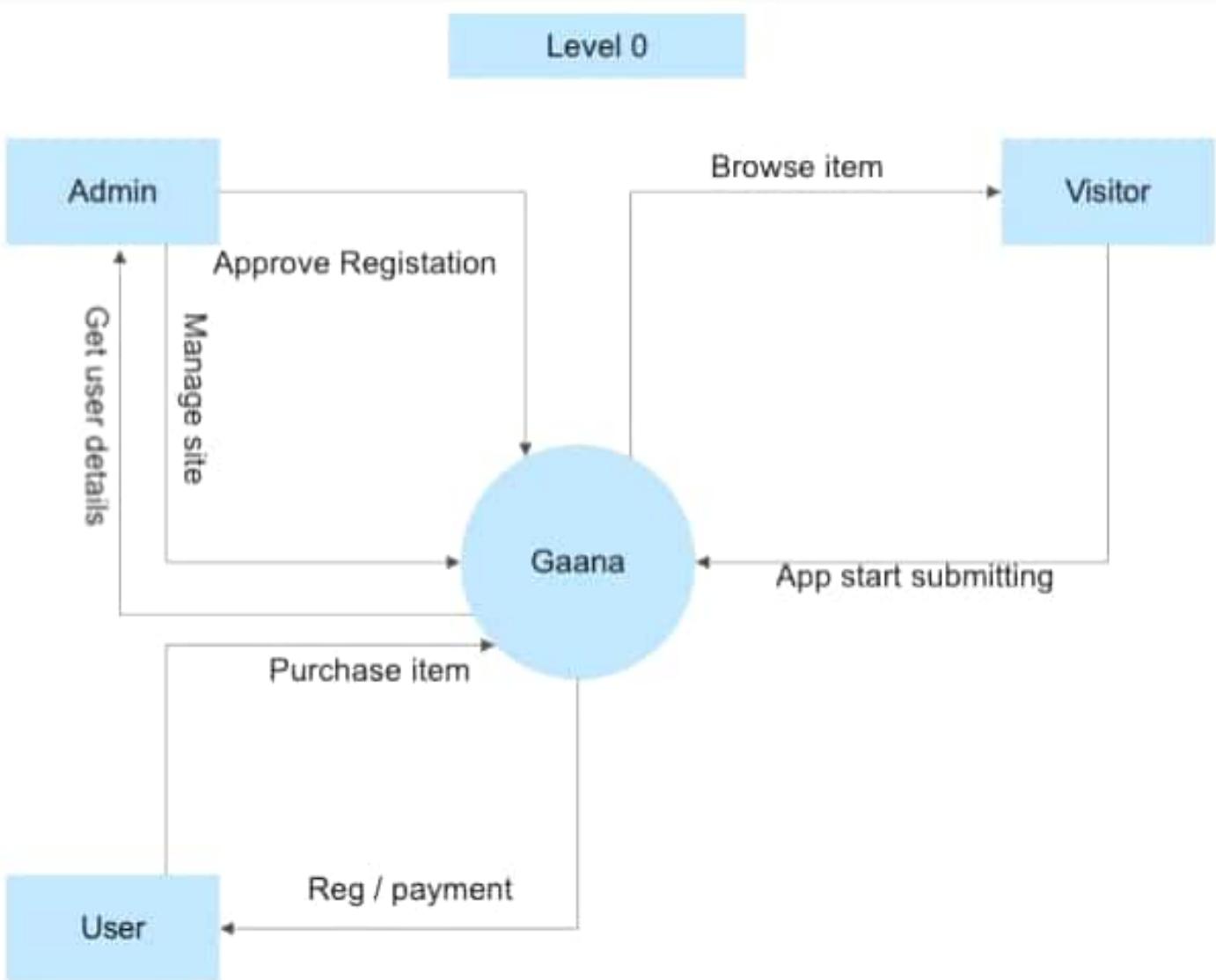
## Conclusion

This software requirements specification outlines the functional & non functional requirements for the Gaana applications provides users with a seamless & enjoyable music streaming experience while also ensuring the security and scalability of the system.





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## Test Case - 2

**Test case :** 2

**System:** Computer

**Designed by:** Amanullah Quamer

**Executed by:** Amanullah Quamer

**Short description:** Search for songs

**Test case name:** Song search

**Subsystem:** Gaana.com

**Design date:** 16/3/23

**Execution Date:** 19/3/23

### **Pre conditions:**

The user is already login to Gaana.com.

Step	Action	Expected System response	Pass/Fail
1	Click on Search button	System displays various songs	Pass
2	Choose songs	Select the song	Pass
3	Click next button	System displays the chosen song	Pass
4	Check post condition		

### **Pre Condition:**

The User will get the information about different songs.

## Test Case -1

**Test case : 1**

**System:** Computer

**Designed by:** Amanullah Quamer

**Executed by:** Amanullah Quamer

**Short description:** Test the login process

**Test case name:** Login

**Subsystem:** Gaana.com

**Design date:** 16/3/23

**Execution Date:** 19/3/23

### **Pre Condition:**

The user has a well established internet connection. The user is already registered with gaana.com. The system display the login page.

Step	Action	Executed System Response	Pass/Fail
1	Enter user id	User id text box turns white	Pass
2	Enter password	Password text box turns white	Pass
3	Click Login	The screen displays successful login	Pass
4	Check post condition		

### **Post Conditions:**

The screen display homepage of Gaana.com.

## Test – Case - 3

**Test case : 3**

**System:** Computer

**Designed by:** Amanullah Quamer

**Executed by:** Amanullah Quamer

**Short description:** Test case for search history

**Test case name:** Check History

**Subsystem:** Gaana.com

**Design date:** 16/3/23

**Execution Date:** 19/3/23

**Pre Condition:**

The User want to search history.

The User is already registered to Gaana.com.

Step	Action	Expected System Response	Pass/Fail
1	Click on main menu	System displays different menu	Pass
2	Click on History	System displays the history of searched songs	Pass
3	Click on one song	Play the song in history	Pass

**Post condition:**

The user get history menu.

