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Course code : CSE-320

Introduction:

Purpose:

This is a partial training specification that can be used by students in the course in software engineering theory at Lovely professional university.

Scope:

The product Goana is an imaginary product that will support listening to streamed music and handle playlists on mobile phones, even in offline mode.

Overview:

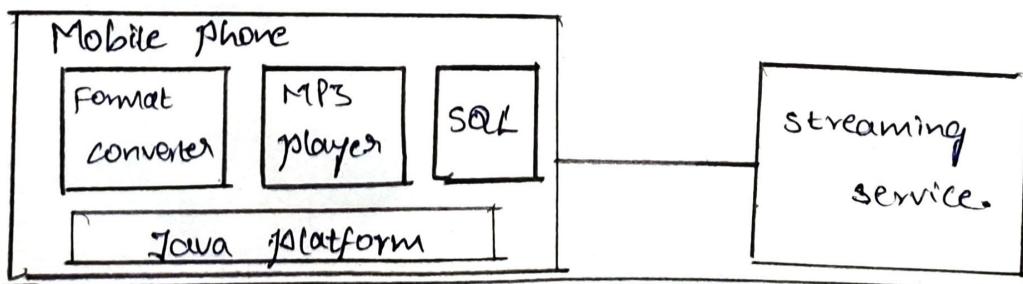
This SRS will contain an overall description and some functionally oriented features and a few functional requirements for parts of software. This document includes all the

functions and specification with their explanations to solve related problems and comments with some guidelines are included. As a project of Lovely Professional University, Computer science Engineering [CSE] Department.

Overall Description :

product perspective:

The Gaana system runs on a java-enabled mobile phone with an built-in MP3 player. The system shall download and synchronize material from a music streaming service, either by a cable connection to a computer (or) directly over GPRS (or) 3G connection to the service.



The Gaana system provides an end user interface the major logical components are:

- * List of playlist
- * playlist of music
- * Music player
- * search screen.

Product Functions :

The product functions are described in use-cases.

Use-case : 1 → Listen to Music

Description :

The user turns on the phone and open the Gaana. The preferred playlist is selected from the list of playlist. The preferred track is selected from the playlist. The track is played, and there are options for controlling the play. When the user is

Stas' satisfied he (and she) stops the music
and steps back 2 times in the menu.

User-case : 2 → synchronize with service

Description:

The user turn on the phone in online mode. When the user opens Gaana, the playlists and the music are automatically synchronized with the account on the online service. If synchronization conflicts are detected, the user is prompted with a question of how to solve them. The user continues listening to the music in online mode when SAL is left, the user is prompted with a question, about preparing for offline listening if this is not in the default settings of the Gaana.

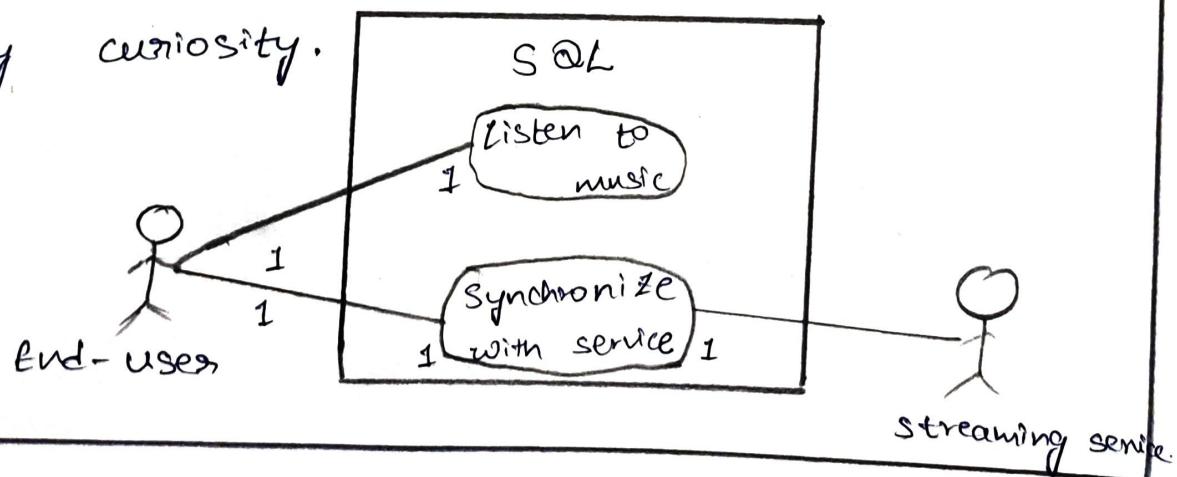
User Characteristics:

User group 1: kids

kids are consumers in the age 7-17 are very active in building and sharing playlists. They might have difficulty understanding english, so default setting and visual interaction is a must.

User group 2: Adults

Adults are in the ages 18-upwards and have well organized playlists for different modes and occasions. whenever new features are released these groups need to be notified, they will not enjoy discovering things by curiosity.



Specific Requirements :

System Features:

Feature 1: Selecting and listening to streamed music.

Introduction/purpose of the Feature:

The user shall be able to select and listen to music in online mode. Gaana accesses the music via list of playlists.

Stimulus/response sequence:

The user starts the phone and Gaana and navigates to the preferred track. The currently selected track is played using the audio ports. Visual information about the track is shown on the screen.

Performance Requirements:

The upper limit for connection to the service in 2 seconds.

The upper limit of the time from clicking on the icon representing play to the time when the first sound can be heard is 2 seconds.

Software System Attributes:

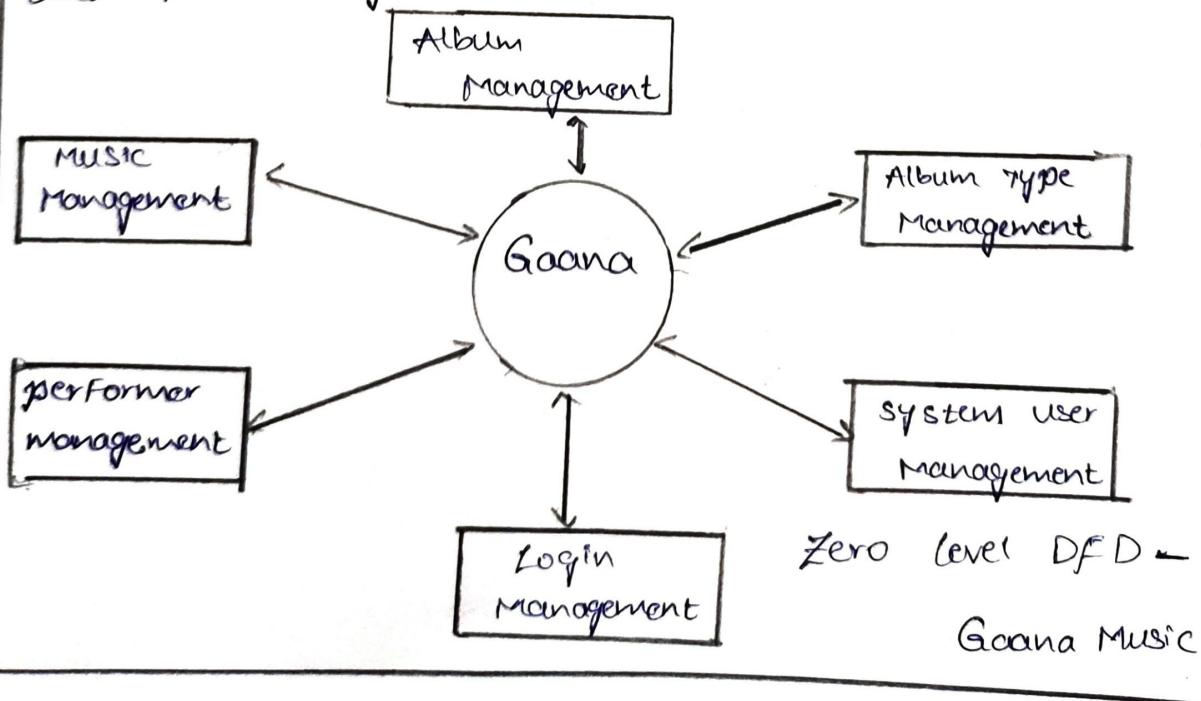
Reliability:

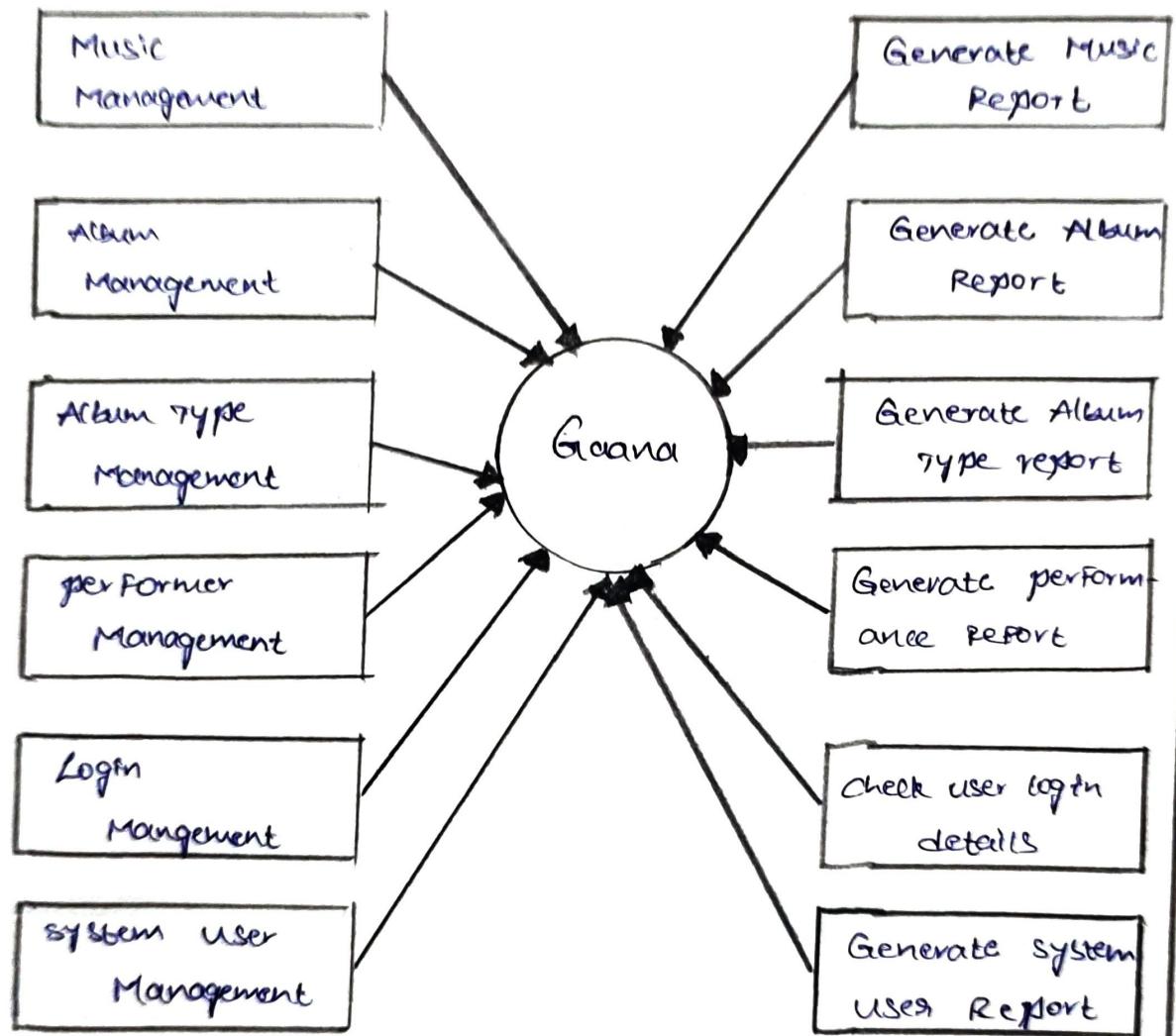
The failure density shall not exceed 1 failure per 100 hours usage time.

Availability:

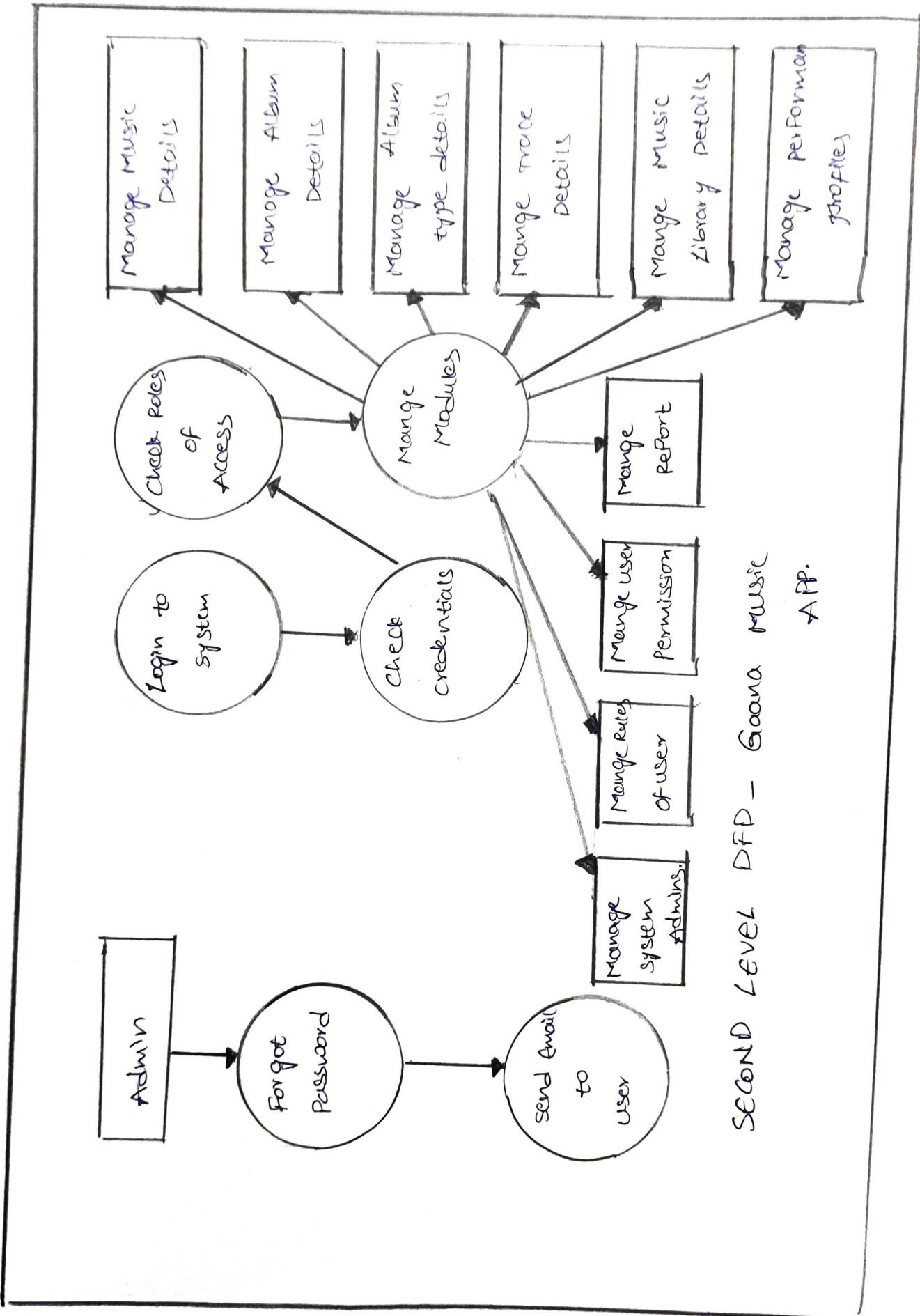
The average availability over a year shall exceed 167 hours per week.

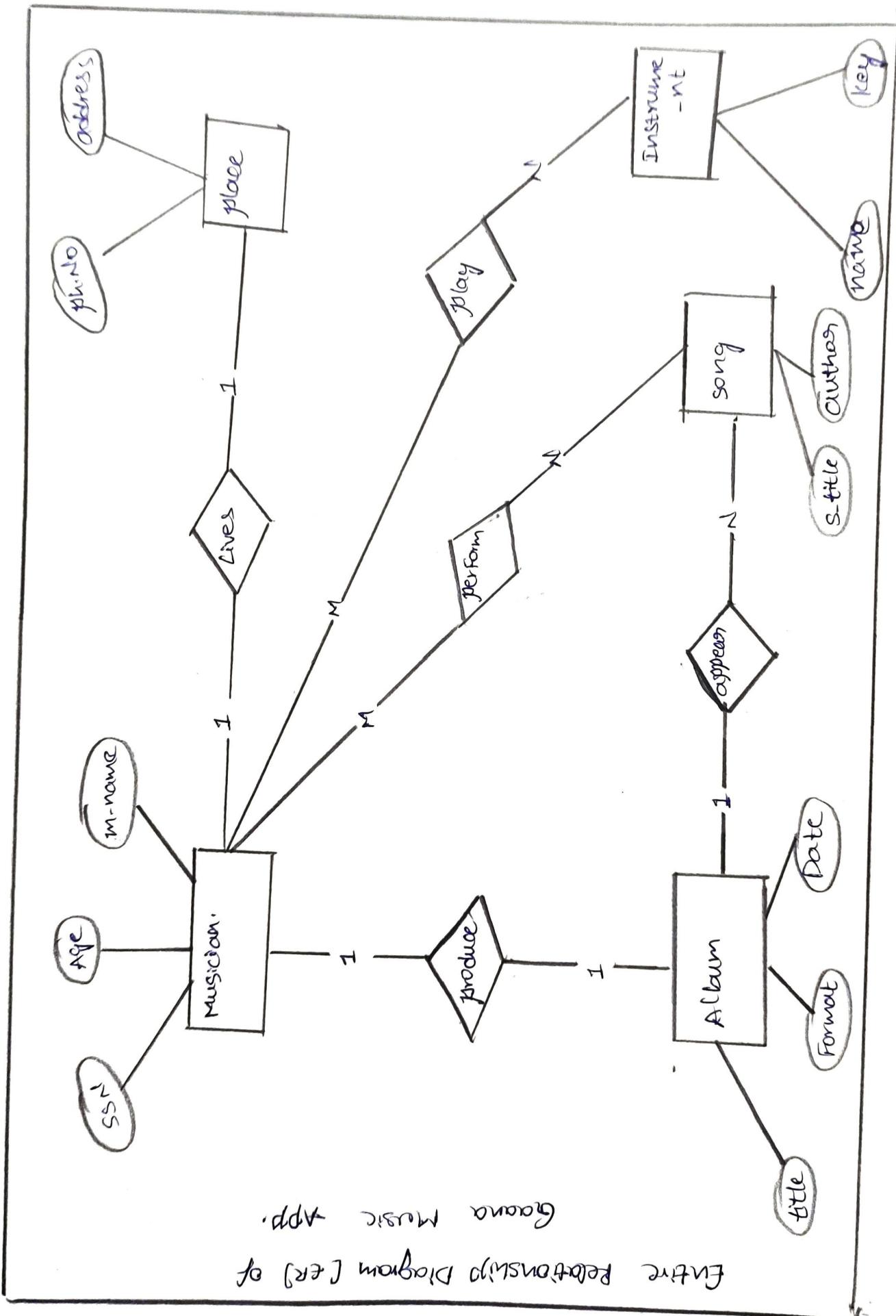
Data Flow Diagrams:





FIRST LEVEL DFD - Gaana Music
App.

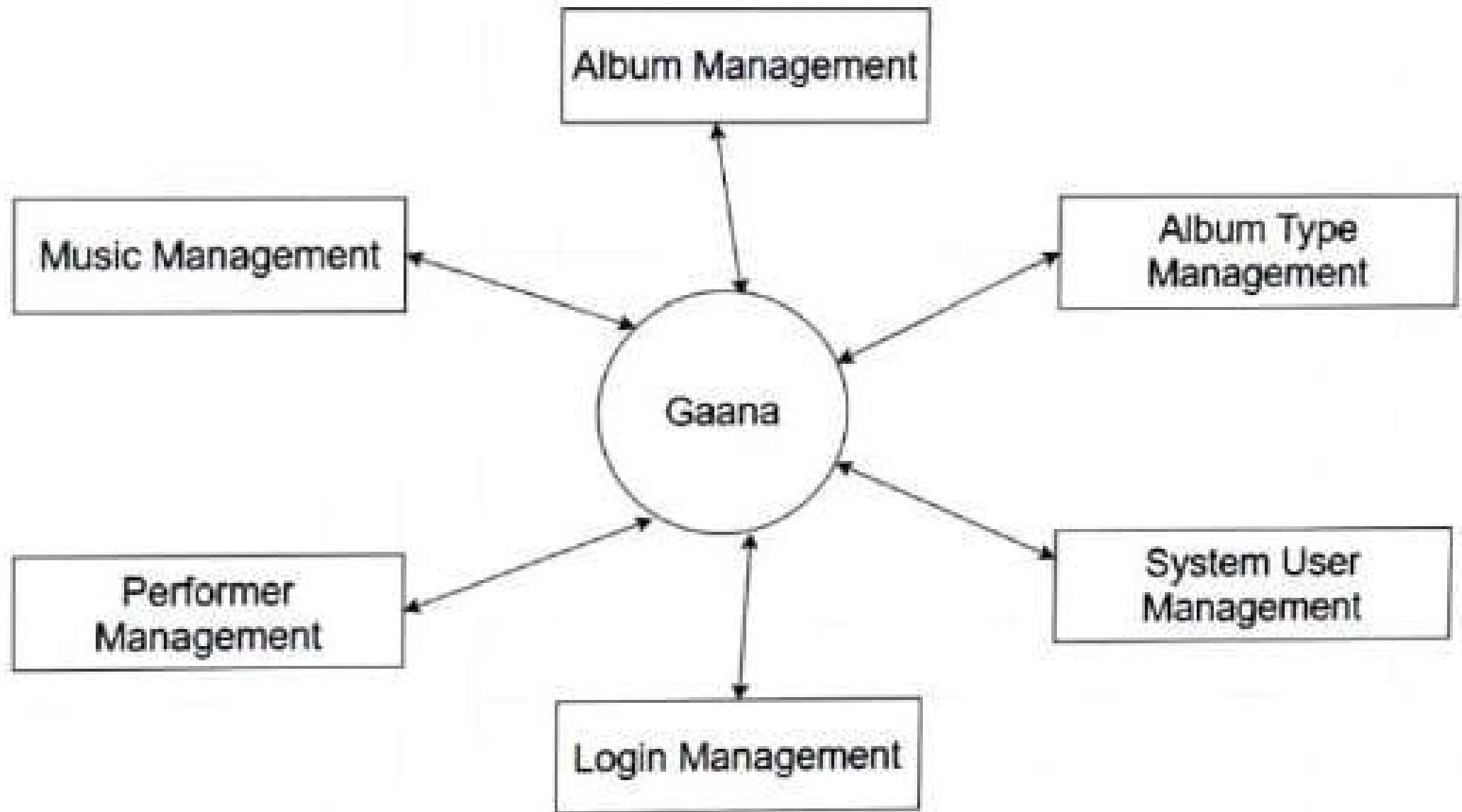




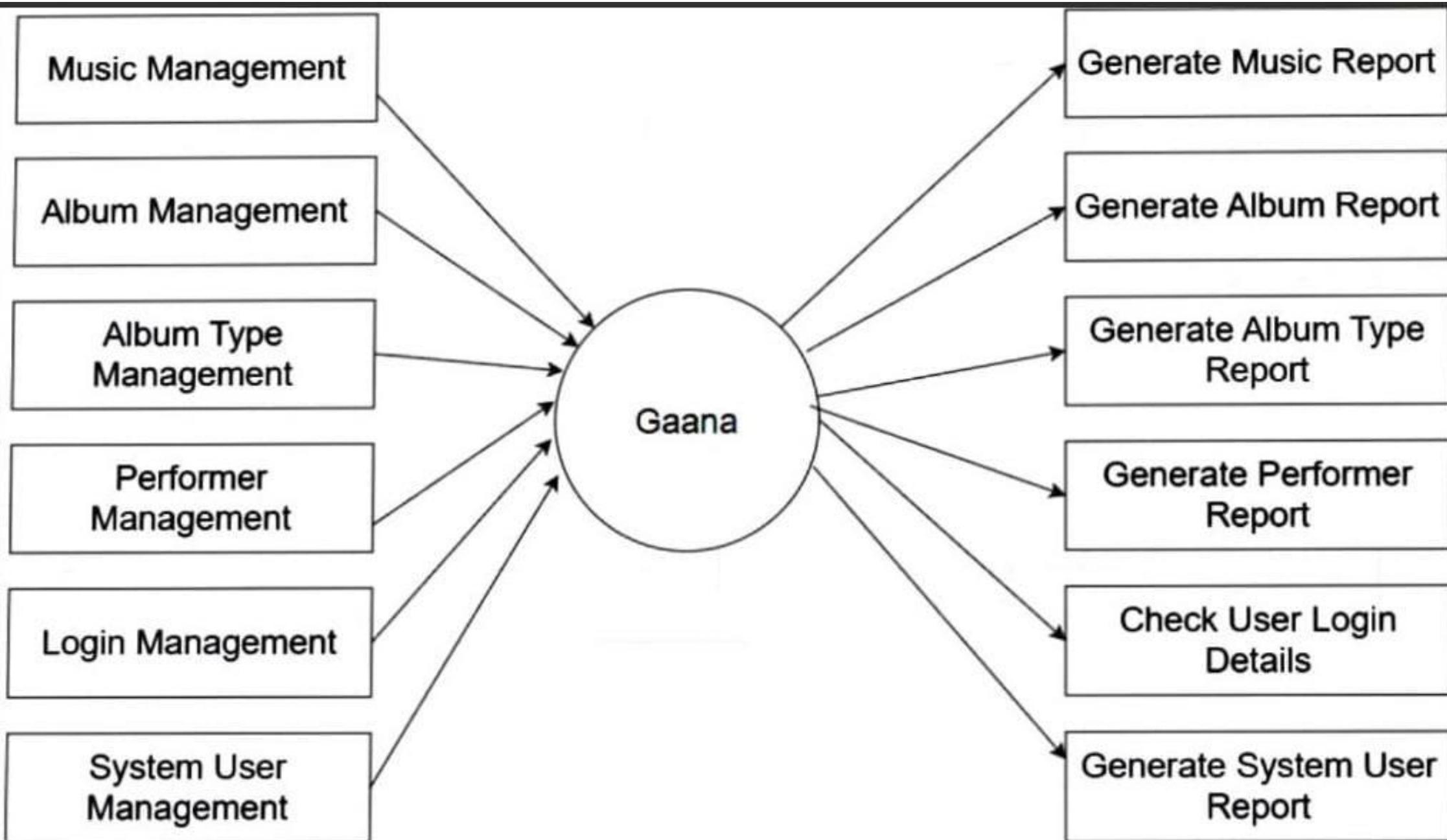
Project Name : Gaana

Test Case : Login test cases.

Test No.	Test Case Description	Expected Result	Status [pass/fail]
1.	open the Gaana app and view profile	The profile page should contain the login and sign up.	
2.	Click on the login	The login page shouldn't contain sign-in option.	
3.	click sign without validations entering username and password	should be shown as "please verify your password"	
4.	Enter valid username and have password field blank	validation should be shown as "invalid username and password"	
5.	Enter invalid username & password [valid]	validation should be shown as "invalid username and password"	
6.	Leave username blank & enter valid password	sign in page should get displayed with empty user name.	



Zero Level DFD - Gaana Music



First Level DFD -Gaana Music

Second Level DFD - Gaana Music

