#### **PROJECT REPORT**

ON

**Online Music Website** 

FOR

**Kalpak Solutions** 

BY

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### **UNIVERSITY OF PUNE**

### MASTER OF COMPUTER APPLICATION

#### M.E.S's

#### **INSTITUTE OF MANGEMENT AND CAREER COURSES**

#### (IMCC), PUNE-411029

#### 2012-13

#### Acknowledgement

I hereby take this opportunity to express my gratitude to all the people who have influenced the making of this project.

First I would like to express my gratitude to **Mr**. **Sandeep Gohad** for his valuable guidance that made this project a success. I also thank the entire team involved in this project for their support and guidance at every stage of this project.

I would like to thank Dr. V. H. Inamdar (Director,

**IMCC**) and **Dr. SantoshDeshpande** (**HOD**, **IMCC**) for their support in my years in IMCC.

Last but not the least, I would like to express my sincere thanks to **Mrs. Shilpa Parlikar** who have given me excellent technical and moral support during my project period. Also, I would like to thank all the teachers in IMCC for their precious guidance and support throughout my post-graduation period.

### Mr. Amey Dharwadkar

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Chapter 1

Introduction

### 1.1 Company profile

### **About Kalpak Solutions**

Kalpak Solutions is a total IT service provider with services offering in the areas of we b application development and mobile application development.

We have a core team of 15 software engineers including web designers, programmers, android and iPhone developers, domain experts, testers and project managers.

The aim of Kalpak Solutions is to work with clients to understand their unique business needs, cultivate new ideas and implement solutions. Our success is measured by the quality of the long-term relationships that we cultivate with our clients and our offshore development approach which provides quality project deliverables with lowest cost.

#### **OUR COMPETENCIES**

Web and mobile application development using – php,
 mysql, Html5, css3 and javascript
 E-commerce web applications using – Magento, customized

shopping cart.

#### PORTFOLIO

We have designed and developed web applications for corporate, hotels, builders, manufacturing industries, hospitals, magazines, music portals, e-commerce etc. For more details, please go though our <u>portfolio</u>.

# SOME OF OUR ESTEEMED CLIENTS IN: INDIA

- □ Kirloskar Consultants
- □ Cummins college
- □ Symbiosis
- $\Box$  Association Of Designers Of India
- □ SNDT University
- □ Association Of Designers Of India

- □ Chitale Bandhu Mithaiwale
- $\Box$  Atlantis group of hotels
- □ Elephant Design Pvt Ltd
- □ Indian Magic Eye Pvt Ltd.
- □ Green Pharmacy
- □ State Government Of Maharashtra
- □ Datar Engineering Pvt Ltd.
- □ Syscon Technologies and Solutio Pvt. Ltd
- □ Cuelogic Technologies Pvt Ltd
- □ Poona Elevators Pvt Ltd
- □ Fortius Facilities Pvt Ltd
- □ Yash Travels Pvt Ltd
- □ Delcons Consultants India Pvt Ltd.
- $\Box$  McLIN consultants Pvt Ltd.
- Daga Brothers
- □ Offshore Accounting and Taxation Services
- Poshakh
- □ Easy Dry System Pvt Ltd

## SOME OF OUR CLIENTS OUTSIDE INDIA:

- □ FPM Manufacturing (Canada)
- □ NCM Cleaning Services (USA)
- □ Elena Klinger (Germany)
- □ ISM Corp (Japan)
- DayBreak (USA)
- □ CT Indian Life (USA)
- $\Box$  Realator (USA)
- □ Sujata Srinivasan (USA)

#### MANAGEMENT

The founder of Kalpak Solutions believe in working smart and providing solutions that can help your business excel. We have on board skilled designers, coders, testers and professionals with experience of working on different domains.

# LOCATION, PUNE, INDIA

We leverage the immense talent of software professionals in this part of the globe to provide world class solutions for your business. Pune is known for the numerous educational institutions of higher learning catering to students from all over the globe. It is a beautiful city that has grown to become the IT hub of India.

# **1.2 Existing System and Need for System:**

## **Existing System:**

There are different types of music sites mainly they are categorized as follows

- 1. Music blog
- 2. Free music downloaded website
- 3. Music review website
- 4. Online music store website
- 5. Online music database
- 6. Online music and lyrics database

### 1. Music blog:

It focuses on music related news, live events and artists and musicians. Popular artists, musicians ,bands are selected - the blog begins with an announcements regarding any major news and dates for the particular events, then an interview will often follow leading up to the concert and coverage of the live performance.

The strategic mix of wording with extensive planning and help from contributors, allows for a steady increase in website hits. Example NJ Underground site.

### 2. Free music downloaded website:

Technically it is an internet download directory website. It may include software, music, games, and videos. Downloads are often rated and reviewed by editors and contain a summary of the file from the publisher. Registered users may also write reviews and rate the product.

#### 3. Music review website:

This is a website that collates reviews of music albums, covering rock, pop, electronic, dance, folk, country, roots and urban. Reviews are sourced from approximately 50 websites, magazines and newspapers. surveys reviews of recent album releases in newspapers and websites and provides a constantly updated charts. Example review aggregator site

#### 4. Online music store website:

An online music store is an online business which sells audio files, usually music, on a per-song and/or subscription basis. It may be differentiated from music streaming services in that the music store offers the actual music file, while streaming services offer partial or full listening without actually owning the source file. However, music stores generally offer partial streaming previews, some even with full length.

And then one can buy/download full length song. There are also an increasing amount of new services popping up that enable musicians to sell their music directly to fans without the need for a third party. These type of services usually use e-commerce. The largest online music store is the iTunes Store, with around 80% of the market.

Advantages: Follows copyright laws. And centralized repository of music makes it easier to find the songs you want.

## 5. Online music database :

A Website provides free and paid for on demand music as a streaming media. A primary unit of many of these two types of sites is the tracks which is often referred to in the marketplace simply as a song. It also provides additional facilities for example one can create playlist, give feedback, share playlist.

## 6. Online music and lyrics database:

A website provides above functionality with lyrics. A database contains song as well as lyrics of that song or variations.

# Need for System:

In recent years music website is playing important role when it comes to the entertainment. It is the fastest, easiest and cheapest way to reach in every corner of the world.

In order to eliminate the drawbacks of the existing systems this website is developed. It is the combination of most of the modules from existing systems. And hence, the proposed system is very useful due to modularity.

This website has following advantages :

- Simple registration form.
- User can create his/her own playlist and can retrieve in next visit.
- User can also edit existing playlist.
- User can easily upload songs and videos other users can enjoy these videos and songs.
- User can give feedback and can read other user's feedback

- User can share song, playlist, video with other user
- User can send invitation to visit/ register to the site.
- Songs are categorized according to albums, artists, composer.
- User can get suggestions based on his previous visits.
- Even if user is not registered then also he can listen to the songs and enjoy videos, live streaming.

# **1.3 Scope of Work**

The website will give access to the certain modules if user is registered. If user is not registered then he/she will get limited access

- Sign Up
- Sign In
- Music
- video
- Live streaming
- Playlist
- Feedback
- Upload
- Share
- Invitation
- Suggestion
- Search

# Sign Up:

One should enter following information for registration: Name, User id, Password, Email id and should fulfill certain requirements of the field while entering information into the field.

## Sign in:

User should enter valid combination of user name and password in order to login successfully. User name and Password recovery links should be available in case of emergency.

# **MUSIC:**

• We require an audio player to play the songs

• Search Field - User can search song by Song title /Artist Name Movie Name.

The music module should contain following categories:

• Songs :

it contains all the songs from database.

### • Albums :

It contains various albums which are present in database and each album contains number of songs, user can select any song to listen and it should be added to the player.

## • Artist :

It contains artist and their songs user can select any song to listen and it should be added to the player .

## • Composer:

It contains composer and their songs user can select any song to listen and it should be added to the player .

## Video:

We require video player to play the videos from database. Search Field - User can search video by Song title /Artist Name.

# **Playlist:**

- User Playlist :Users should make their playlist and save it but to use this functionality login is require.
- Edit: User should be able to edit existing playlist i.e. user can add and delete audio song from playlist.
- User should be able to retrieve previously created playlist.

# Live streaming:

- The website should provide live streaming in the form of live radio channels.
- The website should contain radio plug-ins for internet radio.

# Feedback:

- User should be able to feedback song and video but to use this functionality login is require.
- Other visitors should be able to read all the feedbacks for the song and video.

# **Upload:**

- User should be able to upload audio and video but to use this functionality login is require.
- Other visitors should be able to enjoy uploaded songs and videos.
- Registered user should be able add Uploaded songs(by other user) in playlist.

# Share, Suggestion and Invitation:

- Registered user should be open to share any song or video with other registered user.
- Registered user should be able to send invitation to anyone.
- Registered user should get suggestions based on his/her previous visits.

# Search:

- User should be able to search song or video according to the song name, album name, artist name, composer name and video name.
- In case of invalid searching word system should give suggestions to the user.

# 1.4 Operating Environment –

# Hardware and Software

# Server side:

#### Hardware

- Processor: Core-i3
- RAM: 4GB
- Hard Disk: 1 TB

#### Software

• My SQL

# **Client Side:**

#### Hardware

- Processor: Core2Duo
- RAM: 1GB
- Hard Disk : 10 GB
- Speaker

## Software

- Windows XP and onwards
- Internet explorer 9 or above ,Mozilla, Chrome.Flash

player

### 1.5 Detail Description of Technology Used

#### **PHP: Server- Side Scripting:**

PHP stands for PHP: Hypertext Preprocessor. PHP is a widely used, general-purpose scripting language that was originally designed for web development to produce dynamic web pages. For this purpose, PHP code is embedded into the HTML source document & interpreted by a web server with a PHP processor module, which generates the web page document. As a general-purpose programming language, PHP code is processed by an interpreter application in commandline mode performing desired operating system operations & producing program output on its standard output channel. It may also function as a graphical application. PHP was originally created by Rasmus Lerdorf in 1995, then came PHP/FI 2.0 in 1997, PHP 3.0 calles as Hypertext PreProcessor was the first version that closely resembles PHP was created by Zeev Suraski & Andi Gutmans in June 1998.

Then came PHP 4.0 in may 2000 then PHP 5 in july 2004 & then PHP 6 was released in 2008 whose key features are support for Unicode. PHP is a free software released under the PHP License.

PHP is a general-purpose scripting language that is especially suited to server-side web development where PHP generally runs on a web server. Any PHP code in a requested file is executed by the PHP runtime, usually to create dynamic web page content. It can also be used for command-line scripting & client-side GUI applications. PHP can be deployed on most web servers, many operating systems & platforms, & can be used with many relational database management systems. It is available free of charge, & the PHP group provides the complete source code for users to build, customize & extend for their use. PHP primarily acts as a filter, taking input from a file or stream containing text and/or PHP instructions & outputs another stream of data; most commonly the output will be HTML. Since PHP 4, the PHP parser compiles input

to produce byte code for processing by the Zend Engine, giving improved performance over its interpreter predecessor. Originally designed to create dynamic web pages, PHP now focuses mainly on server-side scripting, & it is similar to other server-side scripting languages that provide dynamic content from a web server to a client, such as Microsoft's Active Server Pages, Sun Microsystems' Java Server Pages. PHP has also attracted the development of many frameworks that provide building blocks & a design structure to promote rapid application development(RAD). As of April 2007, over 20 million Internet domains had web services hosted on servers with PHP installed & mod\_php was recorded as the most popular Apache HTTP server module. Significant websites are written in PHP including the user-facing portion of Facebook, Wikipedia(MediaWiki), Yahoo!, My Yearbook, Digg, Joomla, eZ\_Publish, WordPress, YouTube in its early stages, Drupal, Tagged & Moodle.

The national Vulnerability Database stores all Vulnerabilities found in computer software. The overall proportion of PHPrelated Vulnerabilities on the database amounted to: 20% in 2004, 28% in 2005, 43% in 2006, 36% in 2007, 35% in 2008, and 30% in 2009. Most of these PHP related vulnerabilities can be exploited remotely: they allow crackers to steal or destroy data from data sources linked to the web server, send spam or contribute to DOS attacks using malware, which itself can be installed on the vulnerable servers. These vulnerabilities are caused mostly by not following best practice programming rules: technical security flaws of the language itself or of its core libraries are not frequent. Recognizing that programmers cannot be trusted, some languages include taint checking to detect automatically the lack of input validation which induces many issues. Such a feature is being developed for PHP, but inclusion in a release has been rejected several times in the past.

## Hyper Text Markup Language:

Hyper Text Markup Language (HTML), the language of the World Wide Web (www), allows users to produces Web Pages that include text, graphics & pointer to other web pages (Hyperlinks).

HTML is not a programming language but it is an application of ISO Standard 8879, SGML (Standard Generalized Markup Language), but specialized to hypertext & adapted to the web. The behind Hypertext is that instead of reading text in rigid linear structure, we can easily jump from one point to another point. We can navigate through the information based on our interest & preference. A markup language is simply a series of elements, each delimited with special characters that define how text or other items enclosed within the elements should be displayed. Hyperlinks are underlined or emphasized works that load to other documents or some portions of the same document.

### MySQL: Database Management System:

MySQL is a relational database management system(RDBMS) that runs as a server providing multi-user access to a number of databases. The MySQL development project has made its source code available under the terms of the GNU General Public License ,as well as under a variety of proprietary agreements. MySQL is owned and sponsored by a single for-profit firm, the Swedish company MySQL AB, now qwned by Oracle Corporation.

My Structured Query Language (MySQL) is the language used to manipulate relational databases. MySQL is tied very closely with relational model. In the relational model, data is stored in structures called relations or tables. MySQL is a database server. MySQL is ideal for both small and large applications. MySQL supports standard SQL. MySQL compiles on a number of platforms MySQL statements are issued for the purpose of: Data definition: Defining tables & structures in the database (DDL used to create, alter and drop

schema objects such as tables and indexes) Data Manipulation: Used to manipulate the data within those schema objects (DML Inserting, Updating, Deleting the data, & Querying the databases)

#### **JAVASCRIPT:**

JavaScript (JS) is an interpreted computer programming language. It was originally implemented as part of web browsers so that client-side scripts could interact with the user, control the browser, communicate asynchronously, and alter the document content that was displayed. JavaScript is a prototype-based scripting language that is dynamic, weakly typed, and has first-class functions. Its syntax was influenced by the language C. JavaScript copies many names and naming conventions from Java, but the two languages are otherwise unrelated and have very different semantics. The key design principles within JavaScript are taken from the Self and Scheme programming languages. It is a multi-paradigm language, supporting object-oriented,

imperative, and functional programming styles. JavaScript's use in applications outside of web pages—for example, in PDF documents, site-specific browsers, and desktop widgets—is also significant. Newer and faster JavaScript VMs and frameworks built upon them (notably Node.js) have also increased the popularity of JavaScript for server-side web applications. JavaScript was formalized in the ECMA Script language standard and is primarily used as part of a web browser (client-side JavaScript). This enables programmatic access to computational objects within a host environment.

## **Dewplayer:**

Viewing the website videos on a personal computer does require flash plug-in to be installed on the browser. The web site plays audio content with the help of dewplayer.

Dewplayer is a very small (4Kb) Flash-powered MP3 player, which is also very easy to implement on your pages: download the .swf, upload it on your server, specify the location of the MP3 file or the playlist to read, and you're done.

Dewplayer comes in 3 flavours; each version differs from the others in the number of controls that are provided to the user.

- the mini version offers play, stop and seek
- the normal version adds the pause function
- the multi version adds previous and next buttons
- Below, you can see GIF animations showing respectively the normal and the multi versions:



Dewplayer is developped by the french companyAlsacréations, and its dedicated page features an online wizard that will generate the code you need to get the player working.

### DEWPLAYER

Integrate FLV and F4V videos (including HD) to your web pages with this simple player and very light (few KB!). All videos can be converted to the Web with Riva FLV Encoder (free) or Adobe Media Encoder.

## **DewTube :**

Dewtube is licensed under Creative Commons, its use is free and open even in a professional or commercial use. For a customized professional do not hesitate to contact us.

Other useful tools and free: Dewslider (slideshow) Dewplayer (audio)

#### Use

Its use is very simple as you just use the HTML code provided for a flash animation, specifying the address in the name of the FLV or F4V file to read. This allows to use the same file reader for countless different files. dimensions width and height to match those of your

video . Here's an example video.flv , assuming it is in the same directory:

You can place a preview image in JPG format in the same directory as the video and with the same file name (example: video.flv => video.jpg). This will be displayed by default before playback. Chapter 2

Proposed system

#### 2.1 Proposed System

In present scenario Online music web sites are playing vital role in providing entertainment. User can enjoy audio and video music.

It is a music web site where user can

- Listen to songs according to album ,artist and composer.
- Watch to videos.
- Listen to the live internet radio.
- Share video and audio content.
- Upload video and audio content.
- Give feedback to the song and video.
- Send invitation to other person.
- Create his/her own playlist.
- Share his /her own playlist.
- Retrieve previously created playlist.
- Edit playlist.

- Get suggestions, Search content according to song name, video name, artist name, composer name and album name etc.
- The web site uses PHP, DEWPLAYER,
   DEWTUBE and HTML technology to display a wide variety of user generated video content, including movie clips, TV clips, and music videos, as well as audio content and Live streaming like radio channels.
- Most of the content on web site has been uploaded by users and administrator. There are two types of users depending on registration .
- Registered user and Unregistered user. Unregistered users can watch videos, listen audio content and live streaming while registered users can upload videos and audios. one can create playlist, share content ,give feedback, send invitation and get suggestions .

#### 2.2 Objectives of system:

The main objective is to entertain user. one can listen to favorite songs and enjoy videos. The website also provides access to the internet radio. So user can enjoy wide variety of music. User can upload songs, videos and share them with other user. one can create ,share and edit playlist. User can listen to audio songs according to albums, artist and composer . In addition to that user can rate certain song or video through their feedback.

### 2.3 User Requirement:

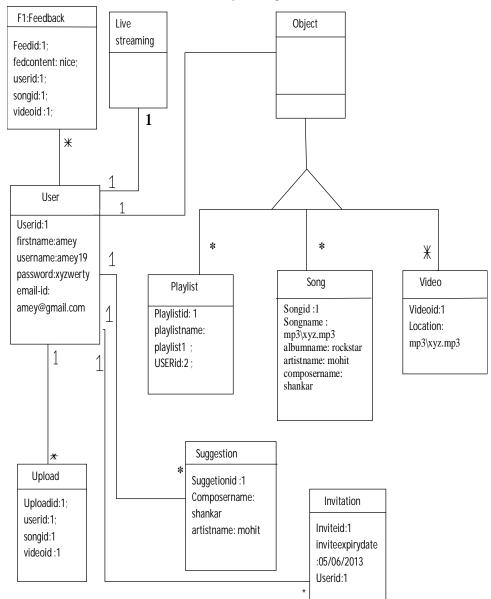
As huge number of users are going to access system simultaneously therefore requirement will play important role in the development of the system.

The user requirements are as follows:

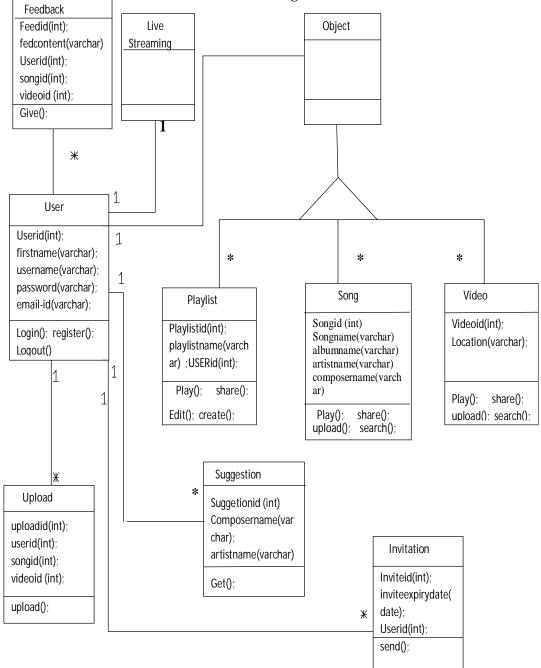
- User friendly and easy system
- Attractive system
- Should not be time consuming
- System should be cost effective
- System should have low maintenance
- Multiple user can access and perform their task.

Chapter 3

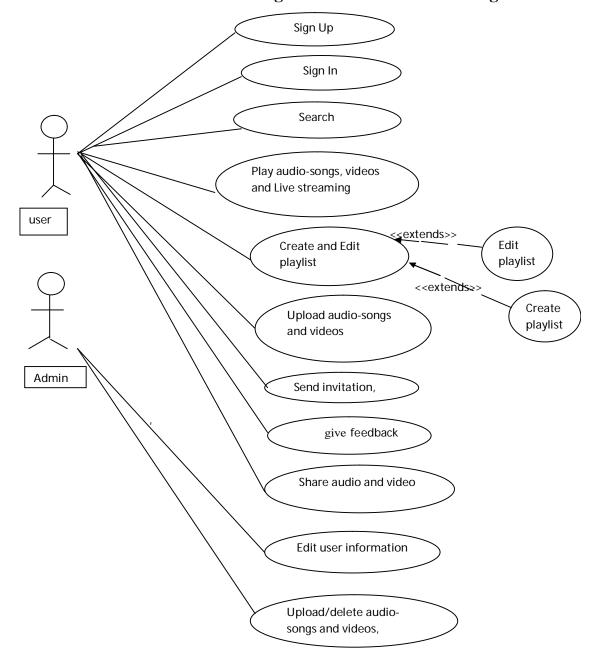
Analysis & Design



#### 3.1 object Diagram:

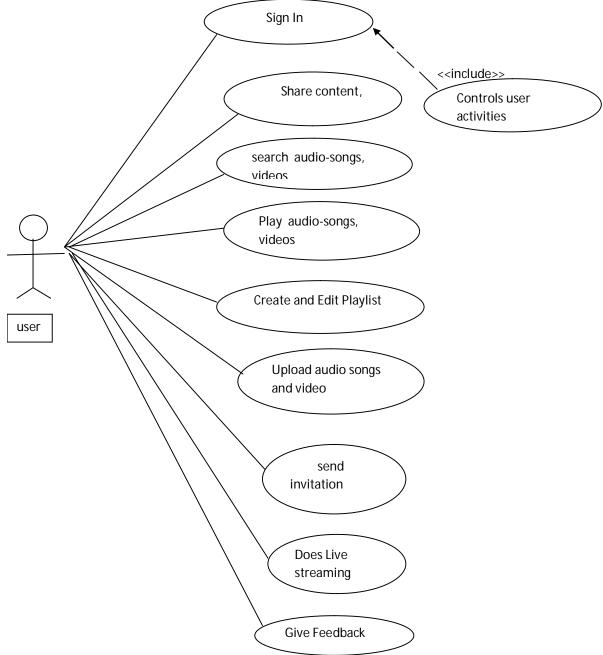


3.2 class Diagram:

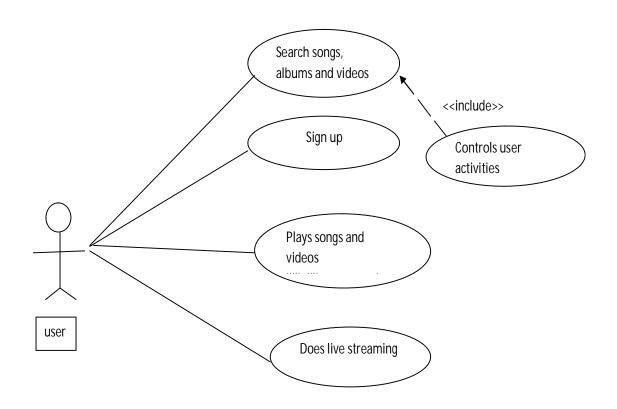


3.3 Use Case Diagrams: Business Usecase Diagram:

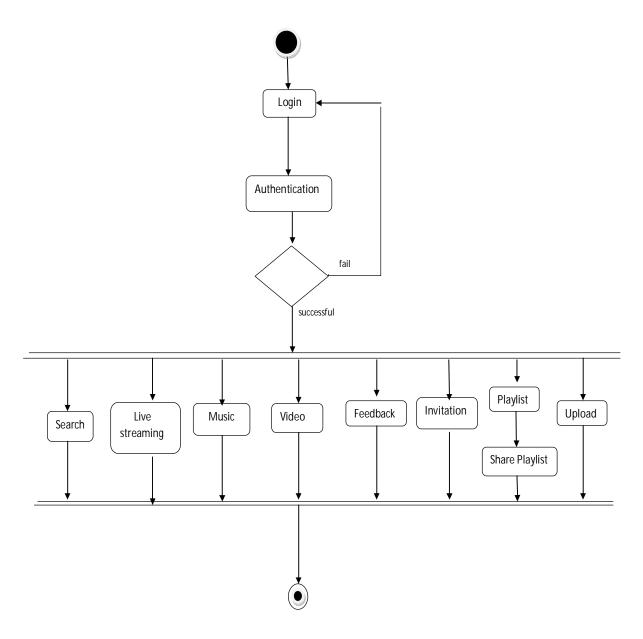
#### **Diagram for Registered User:**



# Usecase Diagram for unregistered User:

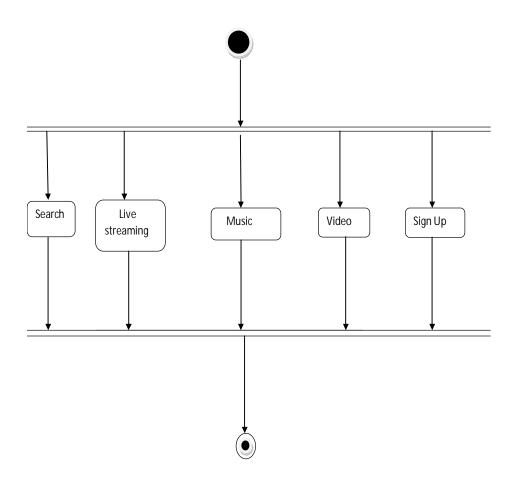


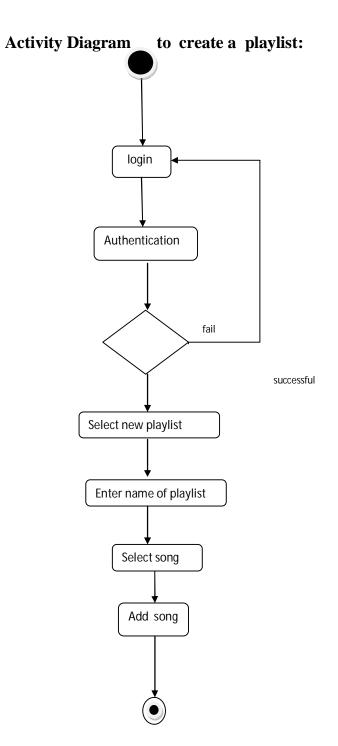
### 3.4 Activity Diagram Registered User

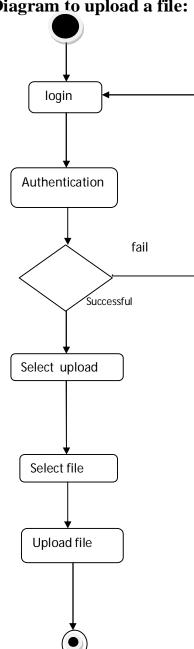


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3.4 Activity Diagram Unregistered User



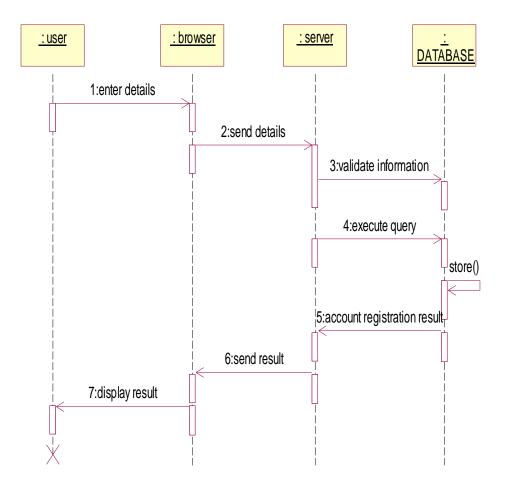




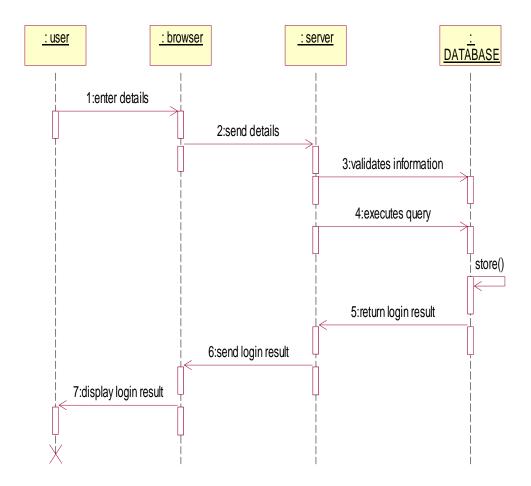
Activity Diagram to upload a file:

**3.5 Sequence Diagrams** 

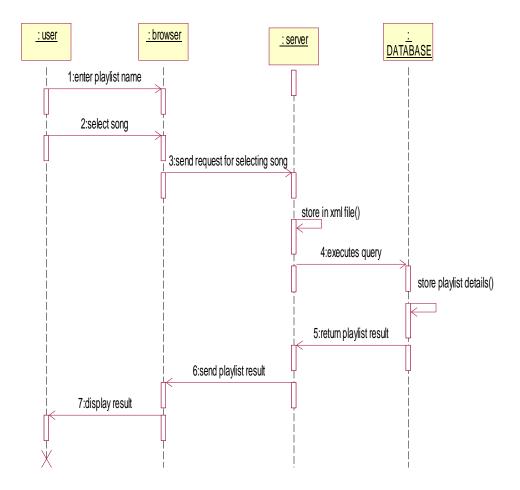
Sequence diagram for Sign up



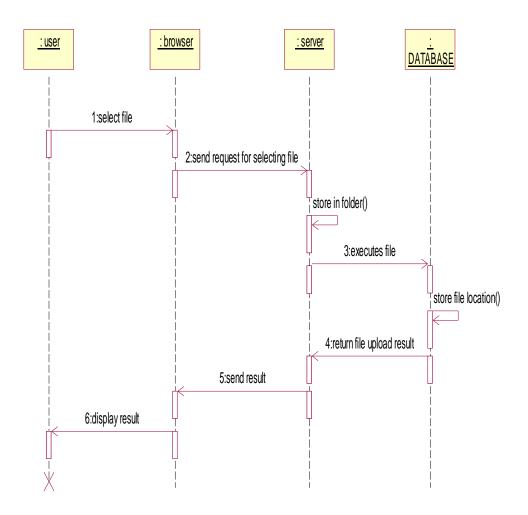
Sequence diagram for Sign In

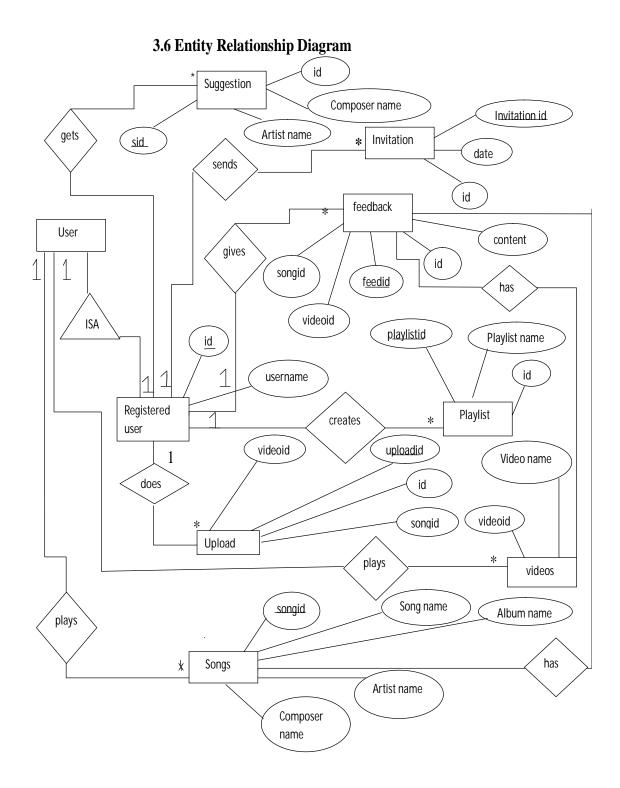


## Sequence diagram to create a Playlist

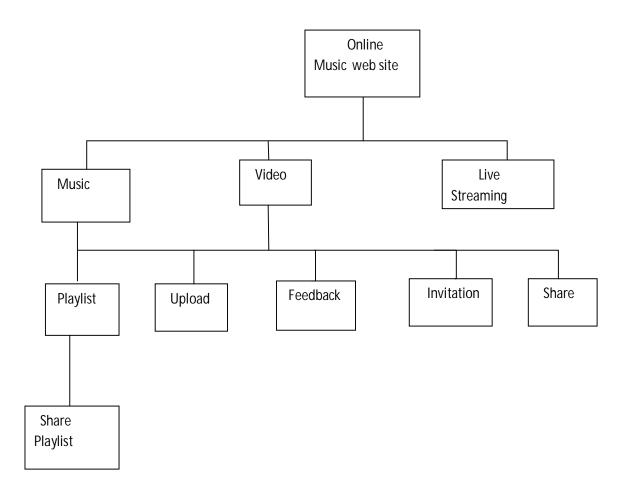


Sequence diagram to upload a file:

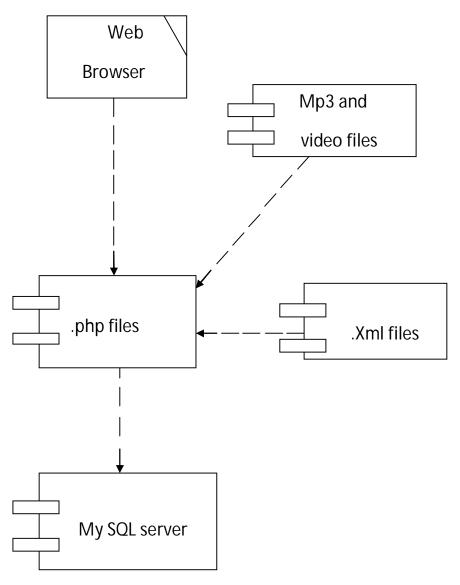




3.7 Module Hierarchy Diagram

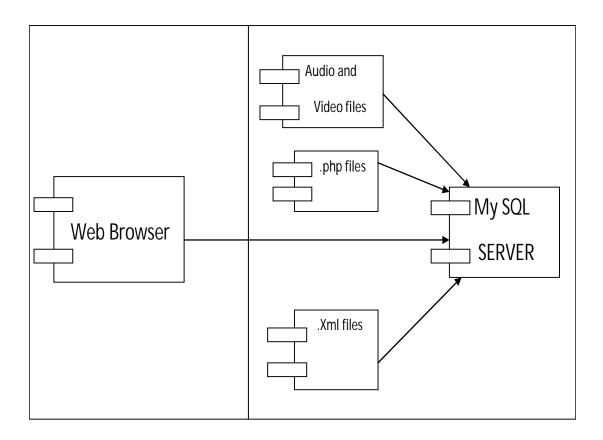


3.8 Component Diagram:



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# 3.9 Deployment Diagram:



#### **3.10 Module Specifications**

#### Module 1 :MUSIC:

Music menu differentiates all available songs into 4 parts. First one is songs where user can find all the existing audio songs. User can play these songs in the player called dewplayer .Second is Album where available songs are grouped according to album. So it is much easier for user to locate certain song or can listen to all songs from certain album. Next category is Composer. As the name suggests all the songs are categories according to a composer's name. Last one is artist based categorization of songs. One can listen to the favorite composers artists .

- Songs : it contains all the songs from database.
- Albums : It contains various albums which are present in database and each album contains number of songs, user can select any song to listen and it should be added to the player.

- Artist : It contains artist and their songs user can select any song to listen and it should be added to the player .
- Composer:

It contains composer and their songs user can select any song to listen and it should be added to the player .

#### Module 2:Video:

User can watch videos irrespective of registration. User can play these videos in the player called dewtube. User can play videos in FLV ,WMV ,FV4 formats.

#### Module 3:Playlist:

Registered user can create playlists. One can retrieve previously created playlists after login. User can add a song Irrespective of its album ,artist, composer in playlist. User can edit existing playlist. It gives two options add and delete. User can create new playlist and name it.

#### Module 3:Upload:

All the registered users can upload videos, audios up to any minutes each in duration(conditions apply).The

Web site accepts videos uploaded in most container formats, including .AVI,WMV, mp3, .FLV, Videos with progressive scanning or interlaced scanning can be uploaded, but for the best video quality,the site suggests interlaced videos are prior to uploading. All the video formats.

#### Module 4:Live Streaming:

The website provides live streaming in the form of live radio channels. The website contains radio plugins which are connected to the internet radio. User can enjoy international radio channels.

#### Module 5:Search:

User can search song or video according to the song name, album name, artist name, composer name and video name. In case of invalid searching words system will give suggestions to the user.

#### Share ,Invitation and suggestion:

Registered users can share playlists, songs and videos and can send invitation to visit the site. They get suggestions based on their previous visits.

#### Feedback:

For giving a feedback about a song or video one needs to register. Feedback about a song and video will be displayed below song and video. Other visitors are able to read all these feedbacks.

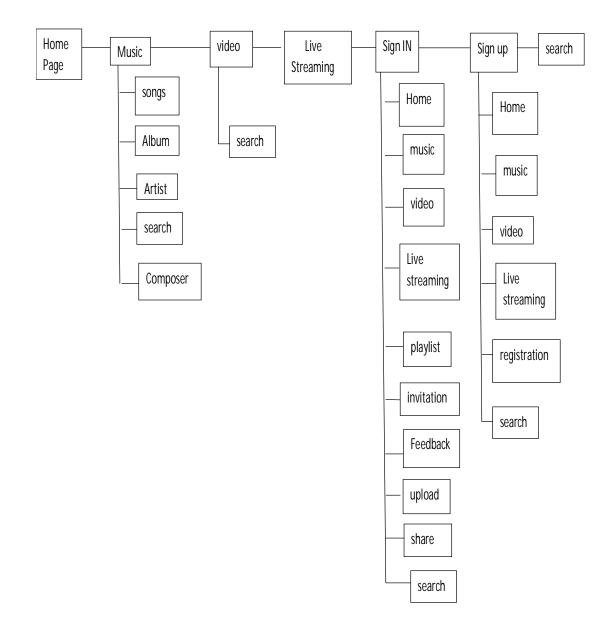
#### Sign Up:

This is a registration form for the website. User should enter following information in order to do successful registration. First name ,Last name, userid (unique),password ,confirm, password and email-id. Every field has certain validations .

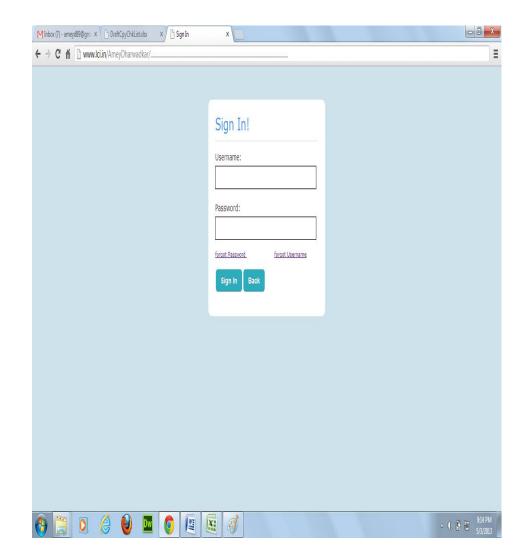
#### Sign In:

This page consists of userid and password. After entering valid information users will get access to their respective accounts. Recovery links are also available in case of password or userid recovery. If user enters unregistered userid or password then same page will be displayed .

# 3.11 Web Site Map Diagram:



# Sign In screen



# Sign Up screen

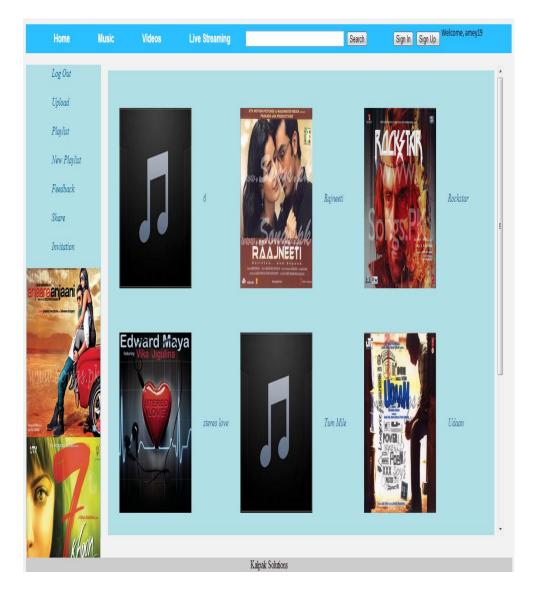
	Signup x	
- → C f D www.lci.in/AmeyDharwadkar		
	Signup Today!	
	First name:	
	Last name:	
	Username:	
	Password:	
	Confirm Password:	
	Email:	
	Signup Now Back	
) 📋 🐧 🖉 🔮 🖬 🌘		- () 🖗 🙄 🕺

# Upload file screen:

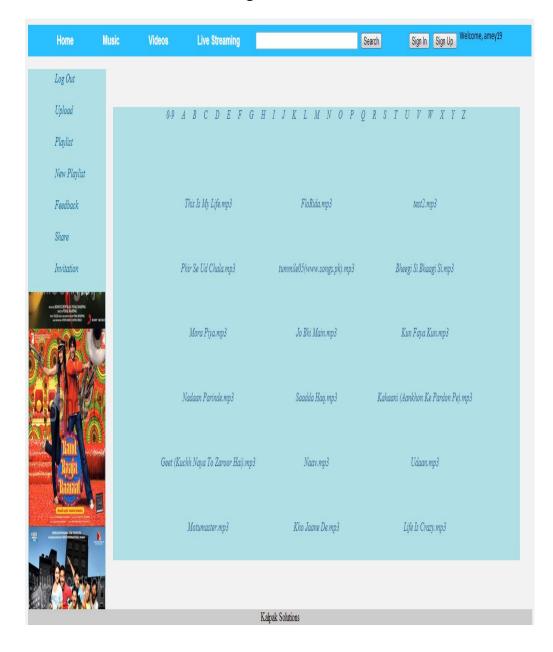
www.lcin/AmejOharwedta			⊽ ≯ 📴 + Web	∀ → Ueb Search						
Home	Music	Videos	Live Streaming		Search	Sign In	Sign Up	Welcom	e, amey:	19
Log Out										
Upload										
Playlist			1' 1							
New Playlist		Audioplayer Please choose a file: Browse. Browse.								
Feedback										
Share		Uplo								
Invitation										

# Home Page screen:

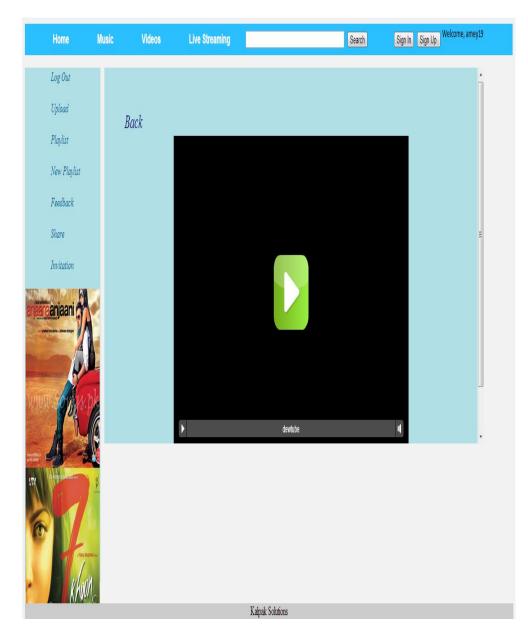




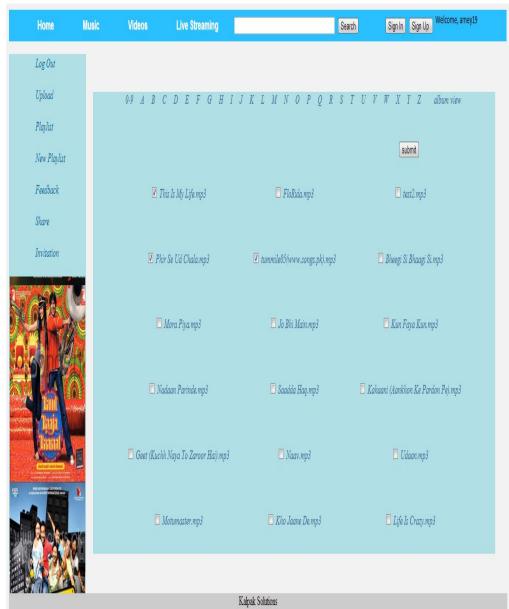
## Album screen



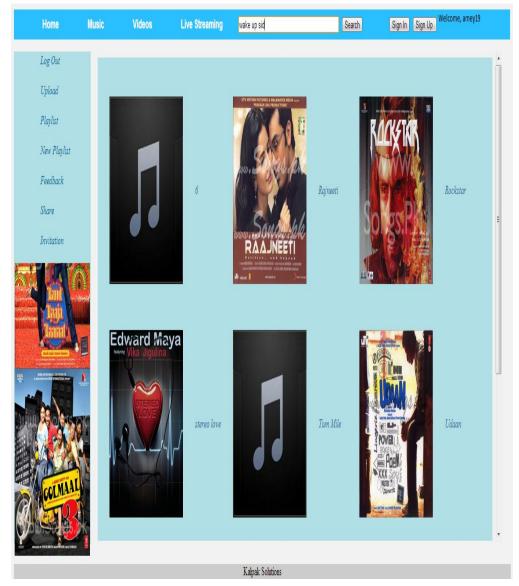
### Song screen



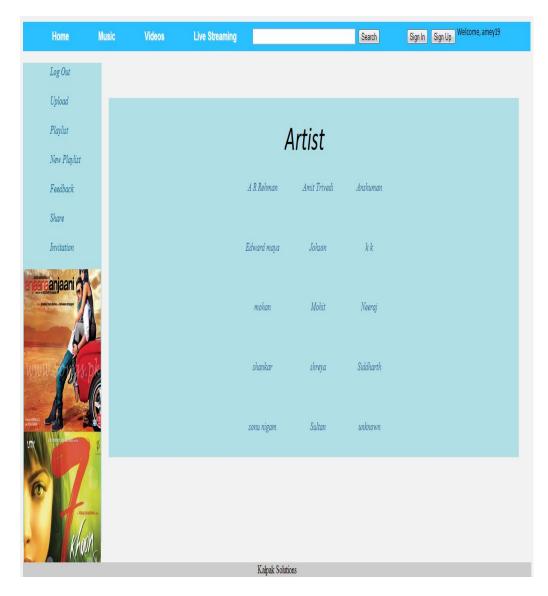
# Video screen



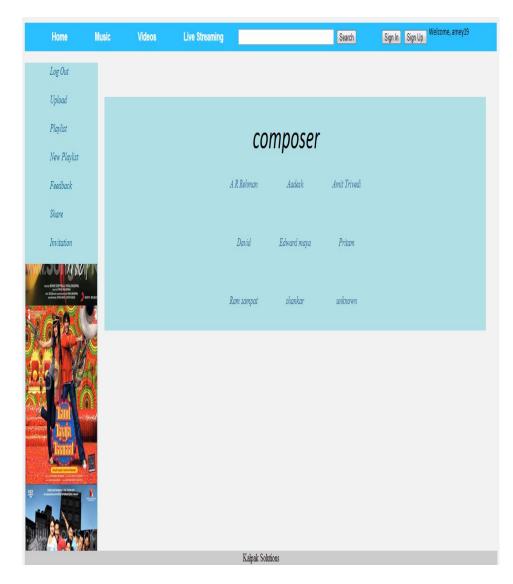
### Playlist Screen:



### Search screen



# Artist Screen:



### Composer screen:

# **3.14 Table specifications**

#### Audio songs:

Sr. no.	Field	datatype	Constraints	Data Size	Description
1	Songid Pk	int	Not null	05	Auto-
					Increment
2	Location	Varchar(50)	Not null	50	-
3	Albumname	Varchar(50)	Not null	50	-
4	composername	Varchar(50)	Not null	50	-
5	Artist name	Varchar(50)	Not null	30	-

#### Video songs

Sr. no.	Field	datatype	Constraints	Data Size	Description
1	Videoid Pk	int	Not null	05	Auto- Increment and is primary key
2	Location	Varchar(50)	Not null	50	-

#### user

Sr.	Field	datatype	Constraints	Data	Description
no				Size	
1	userid Pk	int	Not null	05	Auto- Increment and is primary key
2	firstname	Varchar(50)	Not null	50	-
3	lastname	Varchar(50)	Not null	50	-
4	username	Varchar(50)	Not null	20	-
5	password	Varchar(50)	Not null	20	-
6	Emailid	Varchar(50)	Not null	20	-

Invitation:

Sr. no.	Field	datatype	Constraints	DataSize	Description
1	Inviteid	int	Not null	05	Auto increment and is primary key
2	inviteexpirydate	date	Not null	05/06/13	-
3	USERid	int	Not null	05	Foreign key

Playlist:

Sr. no.	Field	datatype	Constraints	DataSize	Description
1	playlistid	int	Not null	05	Auto
					increment
					and is
					primary key
2	playlistname	Varchar(50)	Not null	20	-
3	USERid	int	Not null	05	Foreign key

Sharing:

Sr. no.	Field	datatype	Constraints	DataSize	Description
1	shid	int	Not null	05	Auto increment and is primary key
2	url	Varchar(50)	Not null	60	-
3	USERid	int	Not null	05	Foreign key

#### Suggetions:

Sr.	Field	datatype	Constraints	DataSize	Description
no.					
1	suggetionid	int	Not null	01	Auto increment and is primary key
2	Composername	Varchar(50)	Not null	50	-
3	artistname	Varchar(50)	Not null	50	-
4	albumname	Varchar(50)	Not null	50	-
3	USERid	int	Not null	05	Foreign key

#### Feedback

Sr. no.	Field	datatype	Constraints	DataSize	Description
1	Fid	int	Not null	05	Auto
					increment
					and is
					primary
					key
2	Feedback	Varchar(50)	Not null	200	-
	content				
3	USERid	int	Not null	05	Foreign
					key
4	songid	int	-	05	Foreign
					key
5	videoid	int	-	05	Foreign
					key

### Upload

Sr. no.	Field	datatype	Constraints	DataSize	Description
1	uploadid	int	Not null	05	Auto
					increment
					and is
					primary
					key
2	Userid	int	Not null	05	Foreign
					key
3	songid	int	-	05	Foreign
					key
4	videoid	int	-	05	Foreign
					key

#### **3.15 TEST PROCEDURES AND IMPLEMENTATION**

The testing is one of the important step to be carried out to ensure the successful implementation of system. The basic idea to carry out testing is to ensure error free program execution.

Therefore most useful and practical approach is to execute a program with an explicit intention of finding errors. The system is rigorously tested. Initially data is prepared according to validation of data base table to check prior working of the system.

Testing involves operation of a system or application under controlled conditions and evaluating the result. The controlled conditions should include both normal and abnormal conditions. Testing should intentionally attempt to make things go wrong to determine if things happen when they shouldn't or things don't happen when they should. It is oriented to 'detection'.

In organizations responsibility of testing of system mainly depends on quality analyst and tester. Project teams that include a mix of tester and developers who work closely together, with overall process monitored by project managers.

#### **Unit Testing:**

At a start of every new stage of programming test data is inputted into every module previously complemented and it is tested independently.

The step taken is:

1. Compilation of form and debugging and correction of errors

2. After the clean compilation of the program, test data is used for the testing Of the program. This reveals the logical error's in program.

3. These logical errors are reported to programmers and this process is reported till the program execute smoothly.

#### **Integration Testing:**

Here the dependents program are tested according to required output the step taken are

- 1. After completion of unit testing ,then integration testing will be carried out.
- 2. Here process get distributed as

Find logical error's to transformation of data from one program to other program and reporting that error's to programme System Testing:

Under this testing procedure the system will be tested as a whole and not in terms of the individual program testing. This procedure will test the integrity of data while it transfers from one process to another i.e., test the integration of each

module of the system.

It is tester to find discrepancies between the proposed system and its original objectives, current specification's and system document's. The step taken is:

System testing is done after the successful completion of integration testing.Such testing is test data against required output to end user(client). The logical errors that find during testing are mark and reported to programmer and this process is repeated till the whole system execute or work smoothly.

#### Validation testing:

At the end of integration testing software is completely assembled as a package, interfacing errors have been uncovered and correction testing begins.Software testing and validation is achieved through series of Black Box tests that demonstrate conformity with the requirements.

#### **Performance testing:**

Performance testing is designed to test run-time performance of application within context of an integrated system. Proper response time for user actions is critical to maintaining and enhancing user base.

# Test cases for registration:

Preconditions: Run the program in to the web browser. Go to the sign up form.

Test case id	Input	Expected result	Actual result	Pass/Fail
R01	Keep first name field empty	first name should not be blank and display error message	Does not accept blank in first name field and display error message.	Pass
R02	Keep last name field empty	last name should not be blank and display error message	Does not accept blank in last name field and display error message.	Pass
R03	Keep user id field empty	user id should not be blank and display error message	Does not accept blank in user id field and display error message.	Pass
R04	Keep password field empty	password should not be blank and display error message	Does not accept blank input in password field and display error message .	Pass

Test case	Input	Expected	Actual result	Pass/Fail
id		result		
DOC	<b>F</b> ( )1	TT · 1 1		D
R06	Enter user id less than 5	User id less than 5	Does not	Pass
	characters	characters	accept user id with less	
	characters	should not be	than 5	
		accepted and	characters	
		display error	and display	
		message	error	
		0-	message.	
R07	Enter user id	User id more	Does not	Pass
	more than	than 12	accept user	
	12 characters	characters	id with more	
		should not be	than 12	
		accepted and	characters	
		display error	and display	
		message	error	
		D 1	message.	D
DOO	Enter	Password	Does not	Pass
R08	password less than 7	less than 7	accept	
	characters	characters should not be	password with less	
	characters	accepted and	than 7	
		display error	characters	
		message	and display	
			error	
			message.	
			-	

Test case id	Input	Expected result	Actual result	Pass/Fail
R09	Enter password more than 12 characters	Password more than 12 characters should not be accepted and display error message	Does not accept password with more than 5 characters and display error message.	Pass
R10	Enter different password and confirm password	Password and confirm pass should not be different and display error message	Does not accept different password and confirm password and display error message.	Pass
R11	Enter invalid email id	Email id should not be invalid and display error message	Does not accept invalid email id and display error message.	Pass

Test case	Input	Expected	Actual	Pass/Fail
id	•	result	result	
Pm01	Create playlist	should not allow user	Does not allow user	Pass
	without login	to create playlist and	to create playlist and	
	login	redirect user	display sign	
		to the sign in page	in page	
Umo1	Upload song or	should not allow user	Does not allow user	pass
	video without login	to upload song or video	to upload song or video and	
	login	redirect user to the sign	display sign in page	
Fmo1	Give	in page should not	Does not	pass
	feedback	allow user	allow user	puss
	without login	to give feedback for	to give feedback for	
		a song or video	a song or video and	
		redirect user to the sign in page	display sign in page	
Imo1	Enter invalid	Invitation should not	Does not	Pass
	email id	be sent and display error	send invitation and display	
		invalid email id	error invalid email id.	

Chapter 4

**User Manual** 

### 4.1 User Manual

A user guide or user's guide, also commonly known as a manual, is a technical communication document intended to give assistance to people using a particular system. It is usually written by a technical writer, although user guides are written by programmers, product or project managers, or other technical staff, particularly in smaller companies.

### Sign Up:

This is a registration form for the website. User should enter following information in order to do successful registration. First name ,Last name, userid (unique),password ,confirm, password and email-id. Every field has certain validations .

#### Sign In:

This page consists of userid and password. After entering valid information users will get access to their respective accounts. Recovery links are also available in case of password or userid recovery. If user enters unregistered userid or password then same page will be displayed .

#### Music:

Music menu differentiates all available songs into 4 parts. First one is songs where user can find all the existing audio songs. User can play these songs in the player called dewplayer .Second is Album where available songs are grouped according to album. So it is much easier for user to locate certain song or can listen to all songs from certain album. Next category is Composer. As the name suggests all the songs are categories according to a composer's name. Last one is artist based categorization of songs. One can listen to the favorite composers artists .

#### **Playlist :**

Registered user can create playlists. One can retrieve previously created playlists after login. User can add a song Irrespective of its album ,artist, composer in playlist. User can edit existing playlist.

It gives two options add and delete. User can create new playlist and name it.

### **Upload:**

All the registered users can upload videos, audios up to any minutes each in duration(conditions apply).The Web site accepts videos uploaded in most container formats, including .AVI,WMV, mp3, .FLV, Videos with progressive scanning or interlaced scanning can be uploaded, but for the best video quality,the site suggests interlaced videos are prior to uploading. All the video formats.

### Feedback:

For giving a feedback about a song or video one needs to register. Feedback about a song and video will be displayed below song and video. Other visitors are able to read all these feedbacks.

### Share ,Invitation and suggestion:

Registered users can share playlists, songs and videos and can send invitation to visit the site. They get suggestions based on their previous visits.

#### Video:

User can watch videos irrespective of registration. User can play these videos in the player called dewtube. User can play videos in FLV ,WMV ,FV4 form.

#### Live Streaming:

The website provides live streaming in the form of live radio channels. The website contains radio plugins which are connected to the internet radio. User can enjoy international radio channels.

### Search:

User can search song or video according to the song name, album name, artist name, composer name and video name. In case of invalid searching words system will give suggestions to the user.

#### 4.5 Operations manual

The system has different links that are useful for the user to navigate easily between required forms provided for user The way of navigation is explained below along with the operations. On the menu bar user can see various links option which are provided by the system for the user to get desird functioning to be performed.

Following are the links for Unregistered user:

Songs: User can find all the available songs.

Album: Songs are categorized according to albums.

Artist: Songs are separated according to their artist.

Composer: Songs are categorized based on their composers.

Video: User can find all the available videos.

Live streaming: User can listen to the internet radio.

Sign up:User can create account by registering information.

Search: User can search content on the basis of song name, artist name, composer name and video title.

Following are the links for registered user: It includes all the above links.

Sign in:User can login to the specific account.

Playlist:User can create new playlist. Can retrieve previously created playlists. Can edit existing playlist.

Upload:User can upload songs and videos. These songs and videos are available to the other visitors.

Share:User can share playlist ,song ,video with other registered users. Feedback:User can feedback song or video and other user can read those feedbacks.

Invitation: User can send invitation to other user to visit the website.

# 4.3 Program Specifications

# 1. User Registration:

Module	User Registration	
Program name	Add User	
Purpose	Add User details	
Events	SubmitButton Onclick	
Input	Constraints	Description
User Details	The required field should not be null	User details get stored
Output	The user are stored in registration table And user gets acknowledgement message of the record added.	

# 2. Playlist:

Module	Create playlist	
Program name	New Playlist	
Purpose	Create playlist	
Events	SubmitButton Onclick	
Input	Constraints	Description
User Details	In order to create playlist User must be registered.	Playlist is created
Output	User can create a playlist by selecting songs from website And one can share created playlist with other registered user.	

# 3. Upload:

Module	File Upload	
Program name	Upload	
Purpose	To upload audio or video file	
Events	SubmitButton Onclick	
Input	Constraints	Description
User Details	In order to create playlist User must be registered.	User can Upload a file.
Output	User can upload audio or video file and it can be accessed by other user. User should be registered in order to upload a file.	

### 4 Feedback:

Module	Feedback		
Program name	Feedback		
Purpose	To give feedback about		
	audio or video	•	
Events	SubmitButton Onclick		
Input	Constraints	Description	
User Details	In order to create playlist User must be registered.	User can give Feedback.	
Output	User can give feedback about particular song or video and other users can read it.User can give any number of feedbacks.		

### **Drawbacks and Limitations**

No System can be called an ideal system as it is developed by sharing ideas of limited people, with limited time schedule. The Topics which are not covered in system are :

- User can not play other than mp3 content when it comes to the audio music.
- 2. Video format is limited which can be played on website.
- 3. Video size is fixed and can not be change .
- 4. User can not download any song or video from website
- Once audio or video have been uploaded it can be seen by any other person irrespective of registration.
- 6. Live streaming does not include video streaming.

### **Proposed Enhancement:**

- The future enhancement in system is user could play any kind of audio and video irrespective of it's current file format.
- 2. Live Video streaming could be a great enhancement to the current System.
- 3. Video could be maximized or minimized by user accordingly.
- User could buy new release online i.e. Online Music store would be a great enhancement to the current system.

### **Conclusion:**

- The Sytem has been developed by Kalpak Solutions , in pune.
   The software been tested and results are found satisfactory.
- The Onlline Music website is developed using PHP,Javascript
   Mysql, HTML,CSS ,Dewplayer and Dewtube. The system fulfills
- all the requirements which are described in scope. And client can access it from any browser(Internet explorer 9 and above.).

### Bibliography

Web Site referred:

1.Hotscripts.com

2.W3school.com

3.Stackoverflow.com

4.google.com

5.wikipedia.com

6.Youtube.com

Book referred:

- 1.Software Engineering by pressman.
- 2. PHP: The Complete Reference.

**ANNEXURES :** 

### **ANNEXURE 1 :**

**User Interface Screens** 

# Sign In :

Sign In!	
Username:	
amey19	
Password:	
forgot Password forgot Username	
Sign In Back	

# Sign Up validation :

Signup Today! First name: amey Last name: dharwadkar Username: amey19 Pather The page at www.kiin says: password does not match co	
Email: Signup Now Back	

# Sign Up validation :

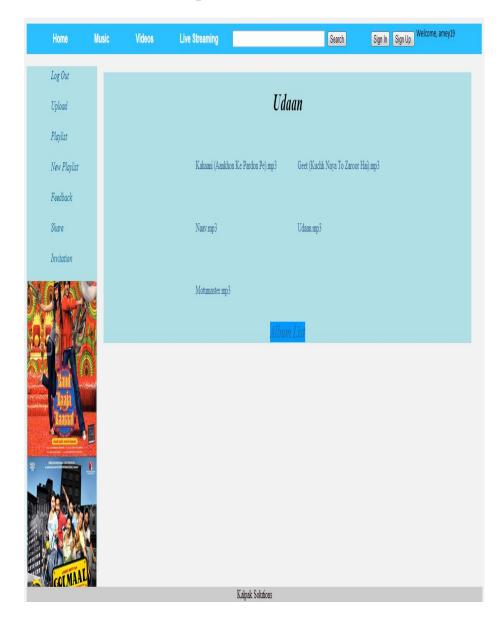
|--|

# Sign Up validation :

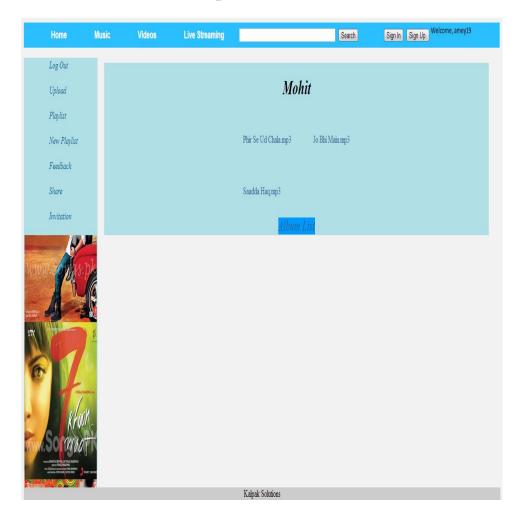
Signup Today!	
First name:	
amey	
Last name: dharwadkar	
Username:	
amey19	
Pa The page at www.lclin says	
Email:	
Signup Now Back	

# Sign Up validation :

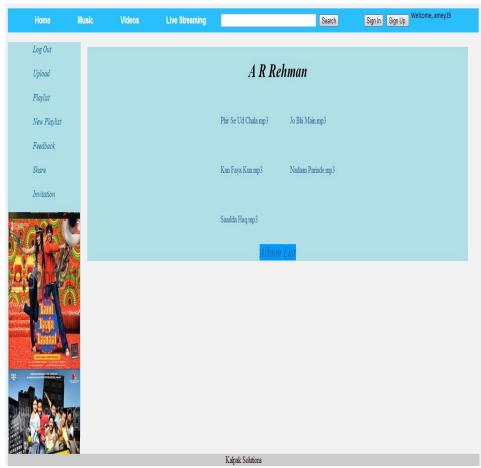
Signup Today!		
First name:	_	
amey		
Last name:		
dharwadkar		
Username:		
amey19		
Pat 👩 The page at www.kciin says:		
• You have registered successfully	]	
Co	OK	
Email:		
ameyd89@gmail.com		
Signup Now Back		



# Specific Album:

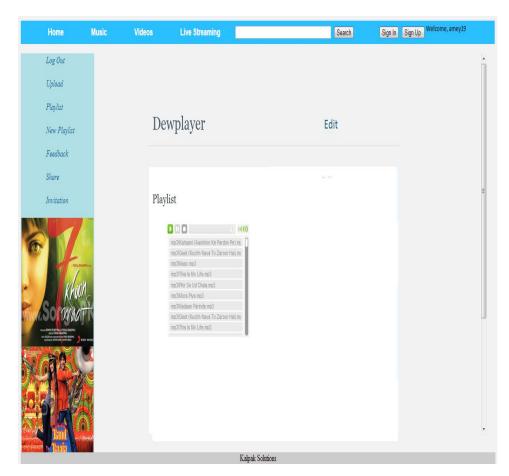


# Specific artist:

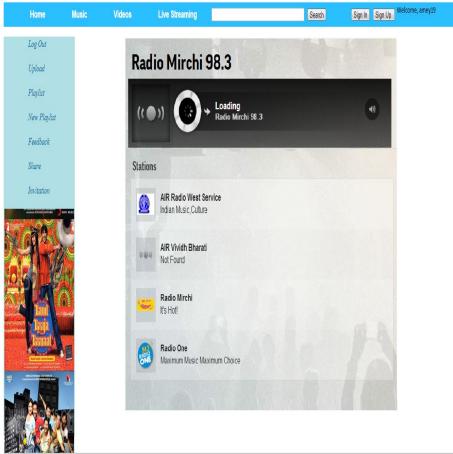


# Specific composer:

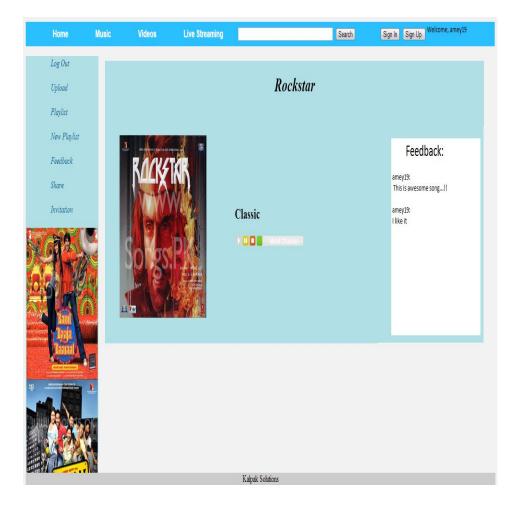
# Edit Playlist



### Live streaming

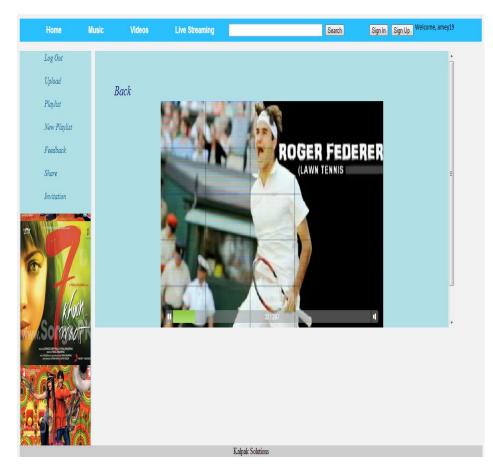


Kalpak Solutions

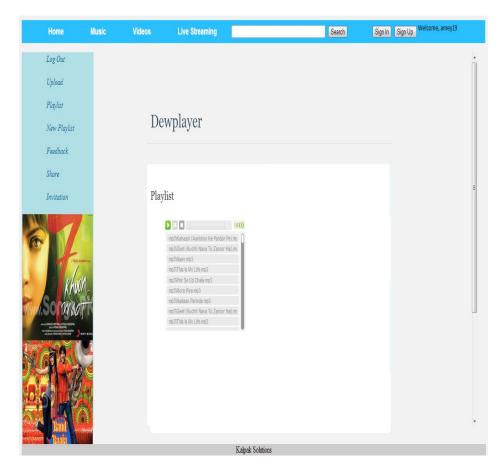


## **Dewplayer and Feedback:**

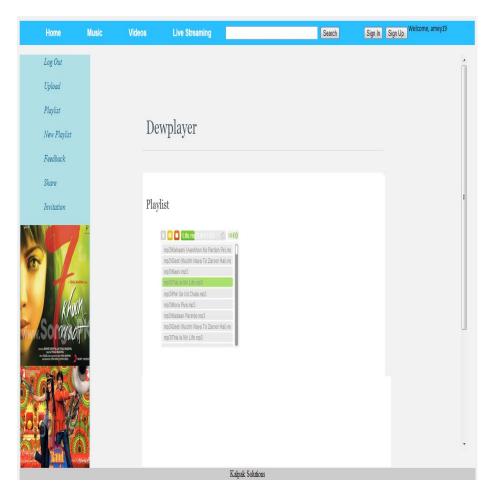
# Video-Dewtube:



## New Playlist:



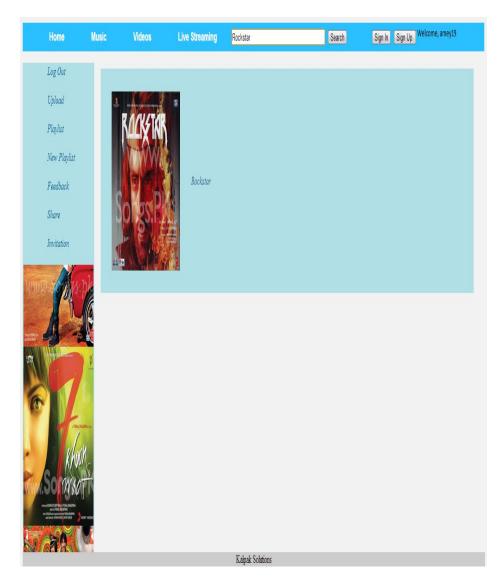
## **Playing Playlist:**



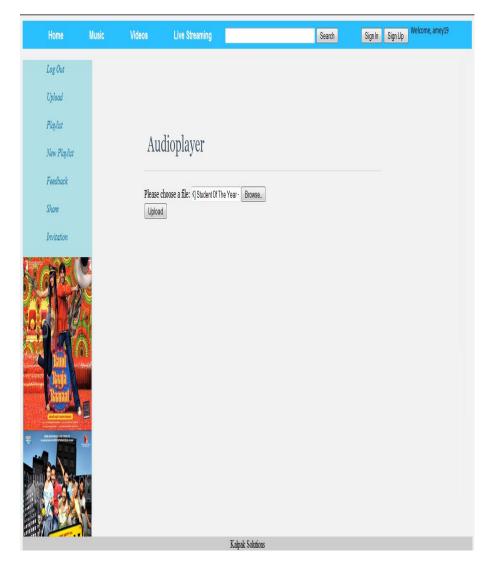
# Playlist sharing:

Home	Music	Videos	Live Streaming		Search	Sign In Sign Up V	Velcome, amey19
Log Out							
Upload							
Playlist		D	1				
New Playlist		De	wplayer				
Feedback							
Share							E
Invitation		Play	list				
			Constraints of the second	Share :			,
				Kalpak Solutions			

## Search:



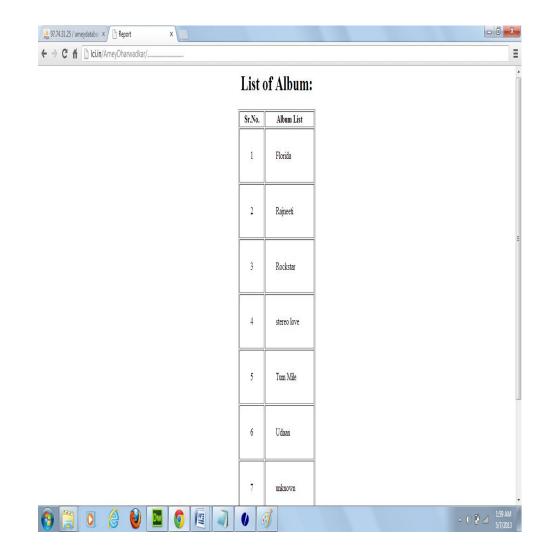
# **Upload File:**



### ANNEXURE 2 :

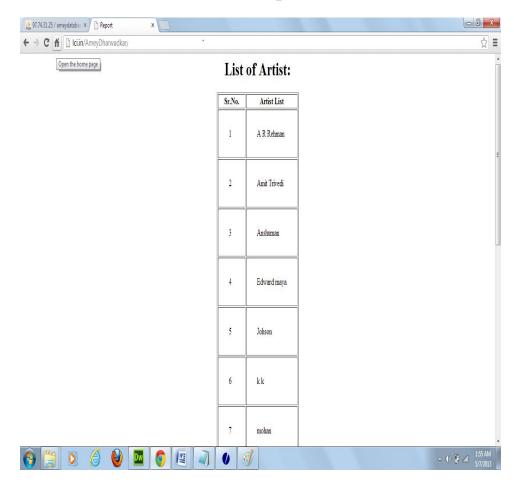
## **Output Reports With Data**

### Album Report:

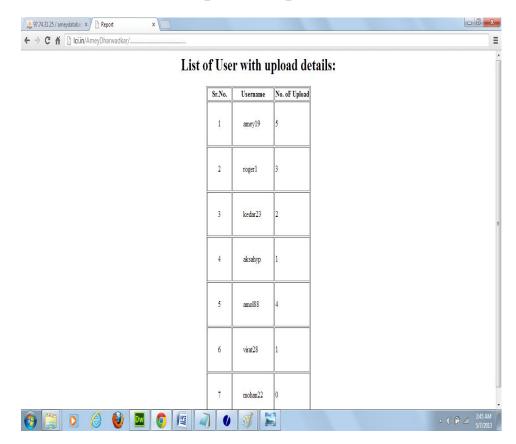


#### A 97.74.31.25 / ameydatabas × - 0 X × ← → C f Dici.in/AmeyDharwadkar/.... Ξ **Registerd User List** First name Last name Email Address ameyd89@gmail.com dharwadkar amey federer roger19@gmail.com roger kedar45@gmail.com kedar deshpande akshay akshay23@gmail.com pawar amol jagtap amol12@gmail.com virat kohali virat56@gmail.com lele mohan mohan4@gmail.com 🚱 📜 🕽 🖉 🔮 🗖 🌖 • () ( all 1:16 AM Ì 1 0

### User detail repot:



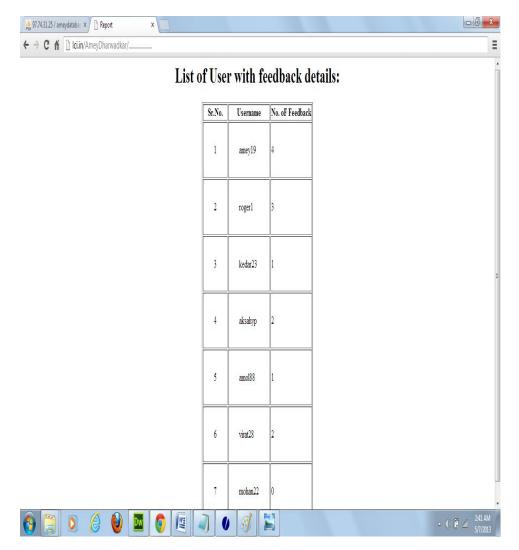
### **Artist Report:**



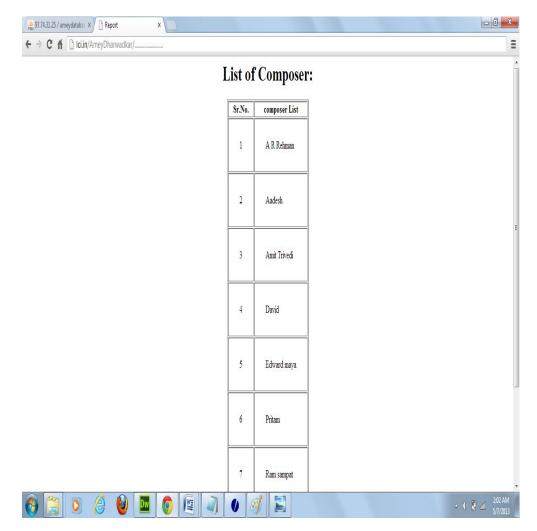
## **Upload Report:**

← → C f [] Ici.in/AmeyDharwadkar/				
		List of songs:		
	Sr.No.	Song List	-	
	1	This Is My Life.mp3		
	2	FloRida.mp3		
	3	test2.mp3		
	4	Phir Se Ud Chala.mp3	]	
	5	tummile05(www.songs.pk).mp3	]	
	6	Bheegi Si Bhaagi Si mp3		
	7	Mora Piya mp3		

### Song Report:



# Feedback report:



## **Composer Report:**

## ANNEXURE 3 :

# Sample Program code

#### Display songs album wise:

<?php

\$id=\$\_GET['id'];

?><head>

<meta http-equiv="Content-Type" content="text/html;

charset=UTF-8" />

<title>Audioplayer</title>

k rel="stylesheet" type="text/css" href="musicframe.css" />

</head>

<?php

include 'configdatabase

.php'; ?>

<div class="content"

<?php

\$cnt=1;

\$sql=mysql\_query("select album\_name from tbl\_audiosong group

by album\_name");

while(\$row=mysql\_fetch\_array(\$sql))

{

if(\$cnt%3==1)

{

echo"";

}

if(\$cnt%3==2)

{echo"

bsp; " } ?>

<a href="albumsonglist.php?page=<?php echo \$row['album\_name'];

?>">

<?php

\$image=\$row['album\_name'].'.jpg';

\$image= 'covers/'.\$image;

?>

<img border='0' src='<?php \$path1=\$image; \$path2

='covers/Unknown.jpg';

echo file\_exists(\$path1) ? \$path1 : \$path2; ?>' alt="Unknown"

width='200' height='250'>

<?php

echo \$row['album\_name'];

```
?>
```

```
</a>
```

<?php

if(\$cnt%3==0)

{

echo"";

#### }

if(\$cnt%3==2){

 $echo"\ &nbsp$ 

sp; " }

\$cnt++; }

?>

</div>