VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI– 590018, KARNATAKA, INDIA

A PROJECT REPORT

on

"MUSIC GALLERY"

Submitted in partial fulfilment of the requirements for the award of

BACHELOR OF ENGINEERING

in

COMPUTER SCIENCE & ENGINEERING

Submitted By

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DEPARTMENT OF COMPUTER SCIENCE &ENGINEERING

VIVEKANANDA COLLEGE OF ENGINEERING & TECHNOLOGY

[A Unit of Vivekananda Vidyavardhaka Sangha Puttur (R)]

Affiliated to Visvesvaraya Technological University and Approved by AICTE New Delhi & Govt., of Karnataka

Nehru Nagar, Puttur - 574 203, DK, Karnataka, India.

JULY, 2021

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CERTIFICATE

Certified that the project work entitled **"Music Gallery "** is carried out by **ASHWINI K N, HARSHITHA RATNA M** bearing USNs **4VP18CS014,4VP18CS034** respectively bonafide students of **Vivekananda College of Engineering & Technology, Puttur** in partial fulfilment for the award of **Bachelor of Engineering** in **Computer Science &Engineering** of the **Visvesvaraya Technological University, Belagavi** during the year 2020-21. It is certified that all corrections/suggestions indicated during Internal Assessment have been incorporated in the report deposited in the departmental library.

The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

_____ _____

Signature of the Guide
Mrs. Bhanupriya M P

Signature of the HOD
Mr. Krishna Mohana A J

ACKNOWLEDGEMENT

We take this opportunity to express our deep heartfelt gratitude to all those people who have helped us in the successful completion of the project.

First and foremost, we would like to express our sincere gratitude to our guides, **Mrs. Bhanupriya M P**, for providing excellent guidance, encouragement and inspiration throughout the project work. Without their invaluable guidance, this work would never have been a successful one

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DECLARATION

We, ASHWINI K N (4VP18CS014), HARSHITHA RATNA M (4VP18CS034) students of sixth semester B. E. in Computer Science & Engineering, Vivekananda College of Engineering & Technology, Puttur, hereby declare that the project work entitled **"Music Gallery"** has been carried out and duly executed by me at VCET, Puttur, under the guidance of **Mrs. Bhanupriya M P**, Assistant Professor, Department of Computer Science & Engineering, Vivekananda College of Engineering & Technology, Puttur, and submitted in partial fulfillment of the requirements for the award of degree in Bachelor of Engineering in Computer Science & Engineering by Visvesvaraya Technological University, Belagavi during the academic year 2020-2021

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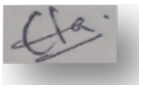
Harshitha Ratna M **4VP18CS034** 

Date: 07.08.2021

Place: VCET.

ABSTRACT

- This project named “Music Gallery” is a web application that basically allows the user to upload their own songs and can listen to already uploaded songs and can add their song into the favorite list. This project contains the admin side as well as the user side. User has to first register to the portal before uploading songs. This project is written in PHP and MYSQL.

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Chapter 1

INTRODUCTION

1.1 Web Technology

Web development technologies refer to the multitude of programming languages and tools that are used to produce dynamic and fully-featured websites and applications.

Web technologies are the various tools and techniques that are utilised in the process of communication between different types of devices over the internet.

Front-end (client-side) technologies.

Front-end technologies are for the “client side” of your website or application. They’re used to develop the interactive components of your website, and produce the elements that users see and interact with. This includes text colours and styles, images, buttons, and navigation menus.

Back-end (server-side) technologies.

Back-end technologies are for the “server side” of your website or application. They’re for developing the technical foundation. They store and arrange data and make sure everything on the front-end works. For example, when a user provides login credentials to a social media application, back-end technologies are used to check if those credentials are accurate. Once the credentials are verified, the server will send back the profile name, picture, and other associated information.

Back-end technologies are also used to streamline core business processes. In cases where you have lots of data that needs to be processed, you could run a script in the back-end to generate a meaningful report on the front-end. You can also send automatic emails to groups of users. Emails can be triggered by certain dates, such as the expiration of a user’s free website trial.

The web, in this case, refers to the World Wide Web, more commonly known as WWW. It first came into being in 1989 when famous scientist and engineer, Tim Berners-Lee, came up with an efficient mechanism to share resources between scientists all over the world.

1.2 About Our Project

The music gallery is where the talent or art of songs of the musicians can be played for the other users. The online music gallery is the application that enables the clients to transfer their songs and make it available to the other clients or users. The objective of this project is to explore the songs of the clients to the public view, with user interface.

The main goal of this project is to provide a user-friendly environment where a user can upload his/her own songs and other scan listen to it. Web application that allows a user to browse and upload the music over the internet at any time.

Chapter 2

REQUIREMENT ANAYLSIS

2.2 Functional Requirement

Functional Requirements describe how product must behave what its features and function. Generally, functional requirement describes system behavior under specific condition.

In our project we included following modules:

- **ADMIN :** In this module admin can login by providing details like email address, password.
    - ❖ **Login :** Admin can login by entering his/her email and password.
    - ❖ **Home Page :** Admin can see user list and uploaded songs.
    - ❖ **Upload Songs :** admin can upload their own songs.
    - ❖ **Search:** Admin can search song by providing information of the song.

  USER : User can register with his/her person details like username, email, phone, password.
    - ❖ **Register :** User can register by entering their personal details and password.
    - ❖ **Login :** Admin can login by entering his/her email and password.
    - ❖ **Home Page:** upload their own songs and can listen to already uploaded songs and can add their song into the favorite list.

2.2 Nonfunctional requirement

Physical Requirement – Anyone using the system will need a computer/tablet/phone with an internet connection, a mouse and keyboard for input, and a registered account

Resource Utilization Requirement - The system will make use of at least two API's in google maps and whatever music related API is chosen and will also be reliant on a database that is held on the server.

Availability Requirement - The application must be always available to any user with an internet connection on a smart phone, tablet or computer.

Security Requirement - The security requirement for the application is a log in system, which password protects the user's profile. When storing the password in the database, the password is encrypted rather than stored in plain text.

Reliability Requirement - Reliability is a key factor and a large amount of this requirement is down to the server the system is hosted on, and the API's functioning correctly. These are two well-known API's that are widely used and have a good reputation.

Accessibility Requirement – The application is available anywhere with an internet connection, and will display neatly on any device because of the bootstrap framework.

Portability Requirement – Because my application is developed in standard PHP and uses MYSQL as the relational database, it is very flexible and can be deployed on all web hosts and cloud providers.

2.3 Hardware requirements:

Processor	:	Intel® CORE™ i5
Processor speed	:	2.40 GHz
Main Storage	:	8 GB RAM
Hard Disk Capacity	:	64 GB

Chapter 3

SOFTWARE REQUIREMENT SPECIFICATION

3.1 SOFTWARE REQUIREMENTS:

Operating System	:	Windows 10
Language Tool	:	PHP, JavaScript, SQL, CSS
Compiler Tool	:	Apache-Netbeans, XAMPP
Documentation Tool	:	MS-Word

3.2 About HTML and CSS:

3.2.1 HTML

HTML stands for Hyper Text Markup Language. Its one of the fundamental technologies required for web development. It provides the base structure for a web page. HTML code ensures that all the content on a website is properly formatted. This is so your Internet browser can display the content as intended. Without HTML, a browser couldnt display text or load images and other elements.

HTML5, the most current version of HTML, specifies a large number of Application Programming Interfaces (API integration services) that can be used with JavaScript for a more interactive and dynamic website:

Canvas: Canvas is an HTML5 element used to draw images and shapes and manipulate them. It can also be used for more complex cases such as game graphics and animations.

Web Storage: Web Storage is used to store information right in the browser. Some examples of this would be storing user login information and saving user preferences for a website.

Service workers: Service workers enable a script that keeps running in the background when a web page is opened and is mainly used in websites with offline capabilities. It makes pages available offline and allows for the use of web push notifications. It can send these notifications even when your browser isnt open.

3.2.2. CSS

Cascading Style Sheets, abbreviated as CSS, define the style and aesthetics of a web

page. While HTML is used to structure a web page, CSS specifies the appearance of that structure. This includes page layouts, colours, fonts and element positioning. If HTML is the bones of the web page, CSS is the skin. It makes the Internet, and your website, look good.

3.3 JavaScript and PHP:

JavaScript(JS) is a dynamic computer programming language. It is most commonly used as part of web browsers, whose implementations allow client side scripts to interact with the user, control the browser, communicate asynchronously, and alter the document content that is displayed. It is also being used in server-side programming, game development and the creation of desktop and mobile applications. JavaScript is a prototype-based scripting language with dynamic typing and has first-class functions. Its syntax was influenced by 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 multiparadigm language, supporting object-oriented, imperative, and functional programming styles. The application of JavaScript to use outside of web pages—for example, in PDF documents, site-specific browsers, and desktop widgets—is also significant

PHP is a server-side scripting language designed for web development but also used as a general-purpose programming language. PHP is now installed on more than 244 million websites and 2.1 million web servers. Originally created by 15 Rasmus Lerdorf in 1995, the reference implementation of PHP is now produced by The PHP Group. While PHP originally stood for Personal Home Page, it now stands for PHP: Hypertext Preprocessor, a recursive backronym.PHP code is interpreted by a web server with a PHP processor module, which generates the resulting web page: PHP commands can be embedded directly into an HTML source document rather than calling an external file to process data. It has also evolved to include a command-line interface capability and can be used in standalone graphical applications.

3.4 Web server used:

XAMPP is an easy to install Apache distribution containing MySQL, PHP

and Perl. XAMPP is really very easy to install and to use – just download, extract and

start.

It contains the following

• Apache 2.4.4

• MySQL 5.5.32

• PHP 5.4.16

• PHP My admin 4.0.4

• FileZilla FTP server 0.9.41

• Tomcat 7.0.41

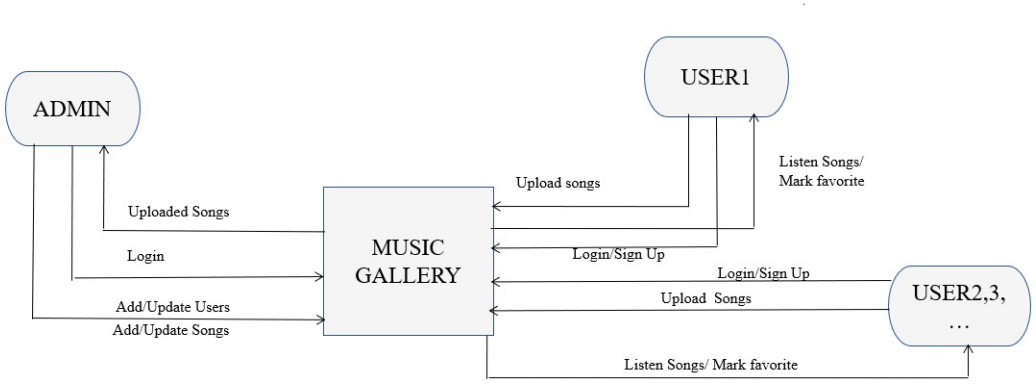
Programming language used: HTML, CSS, PHP, PHMyAdmin.

NetBeans is an integrated development environment (IDE) for Java. NetBeans allows applications to be developed from a set of modular software components called *modules*. NetBeans runs on Windows, macOS, Linux and Solaris. In addition to Java development, it has extensions for other languages like PHP, C, C++, HTML5, and JavaScript. Applications based on NetBeans, including the NetBeans IDE, can be extended by third party developers.

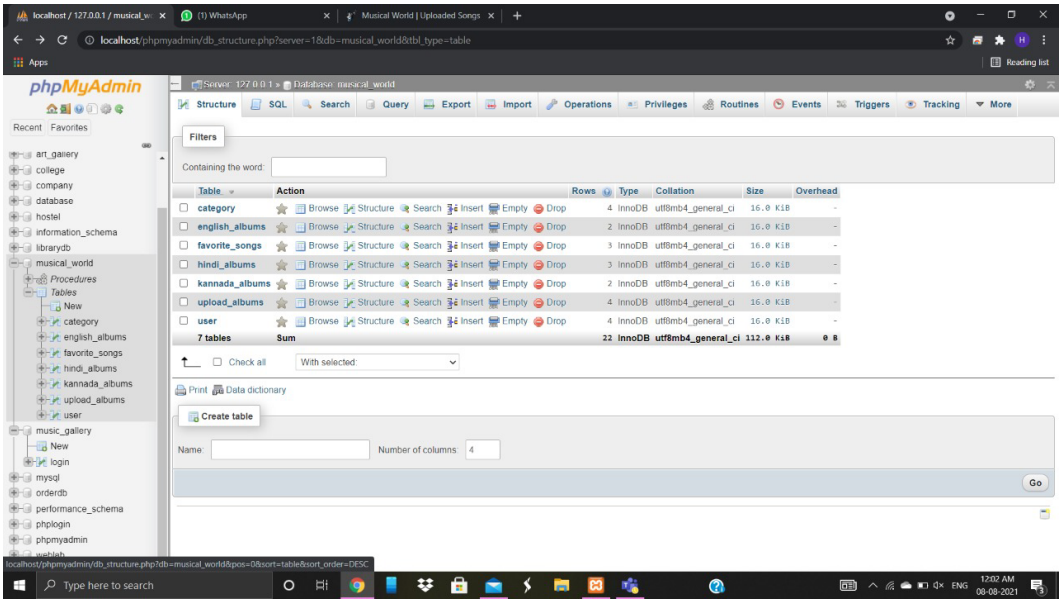
Chapter 4

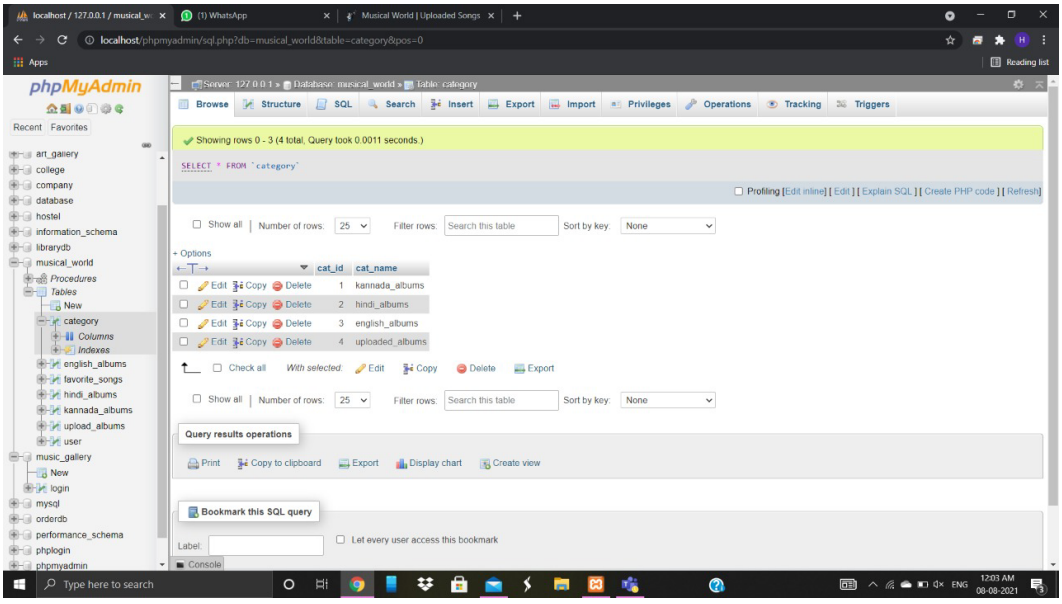
ANALYSIS AND DESIGN

4.1 Flow Diagram



4.2 Database Tables





Chapter 5

IMPLEMENTATION

5.1 Module Implementation

5.1.1 Login Module

Input: User name and password

Output: Access to the admin system

Description: The username and password is verified.

5.1.2 Category Module:

Input: Different language songs.

Output: Access to those songs

5.1.3 Signup module:

Input: Username, Email ID, password, Phone number

Output: Validating the email.

Chapter 6

TESTING

6.1 Unit testing:

Unit testing is undertaken when a module has been created and succesfully reviewed .In order to test a single module we need to provide a complete environment ie besides the module we would require The procedures belonging to other modules that the module under test calls• Non local data structures that module accesses• A procedure to call the functions of the module under test with appropriate• parameters

As we developed our code, piece by piece we would do unit tests as we went along to ensure that each part was doing what it was supposed to do before moving on to the next part and just presuming it was working okay.

6.2 Integration testing:

In this type of testing we test various integration of the project module by providing the input. The primary objective is to test the module interfaces in order to ensure that no errors are occurring when one module invokes the other module.

Integration testing involved making sure that when two parts of the system came together that they both worked fine together and there were no errors or disagreements.

6.3 System testing

System testing involved testing the internal workings of my software, where knowledge of how it works is actually known and checking that code I wrote actually did what I intended it to do, without causing any problems or errors.

Chapter 7

RESULT

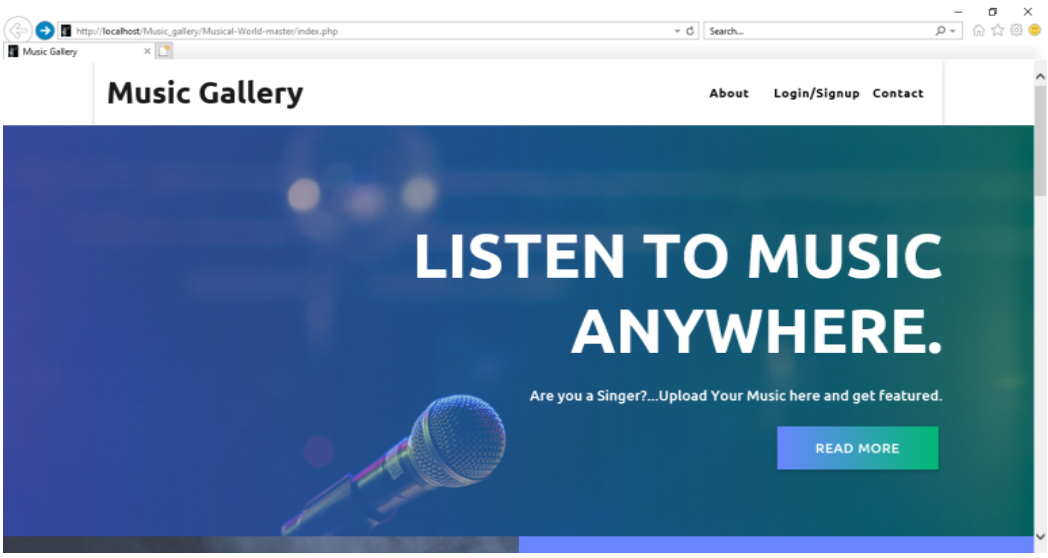


Fig 7.1 Home page

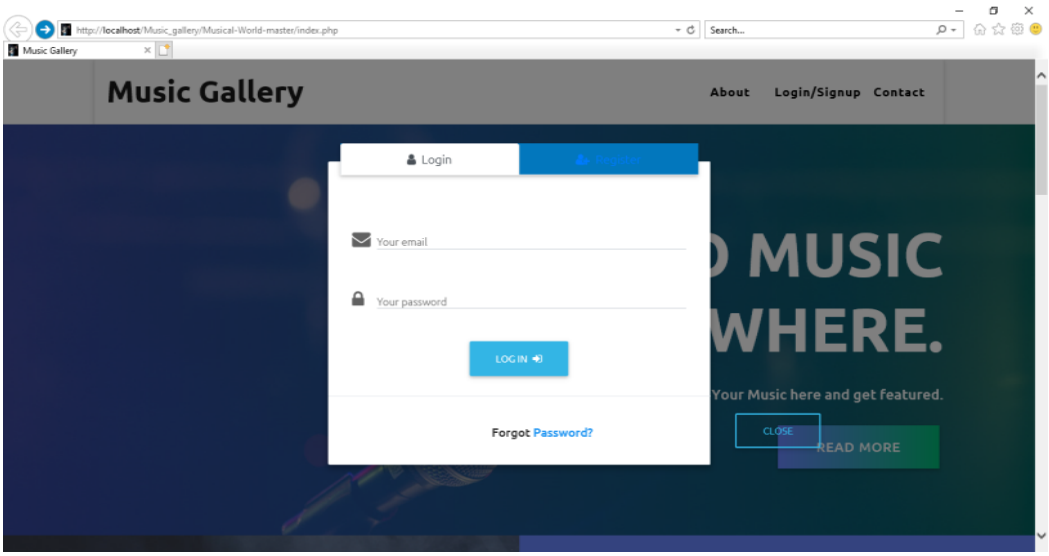


Fig 7.2 Login page

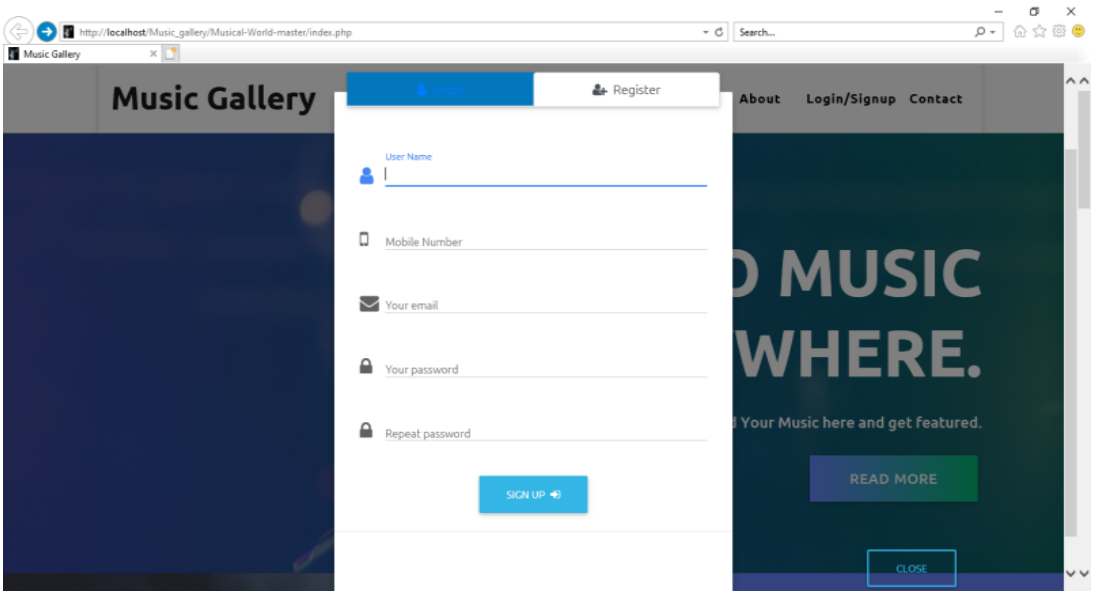


Fig 7.3 Sign up page

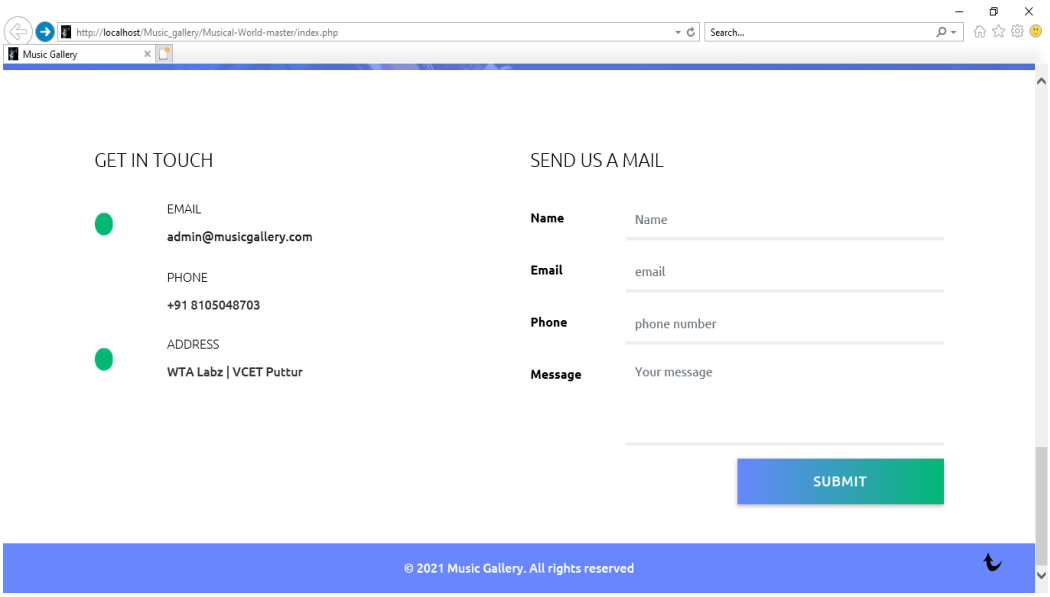


Fig 7.4 Contact info

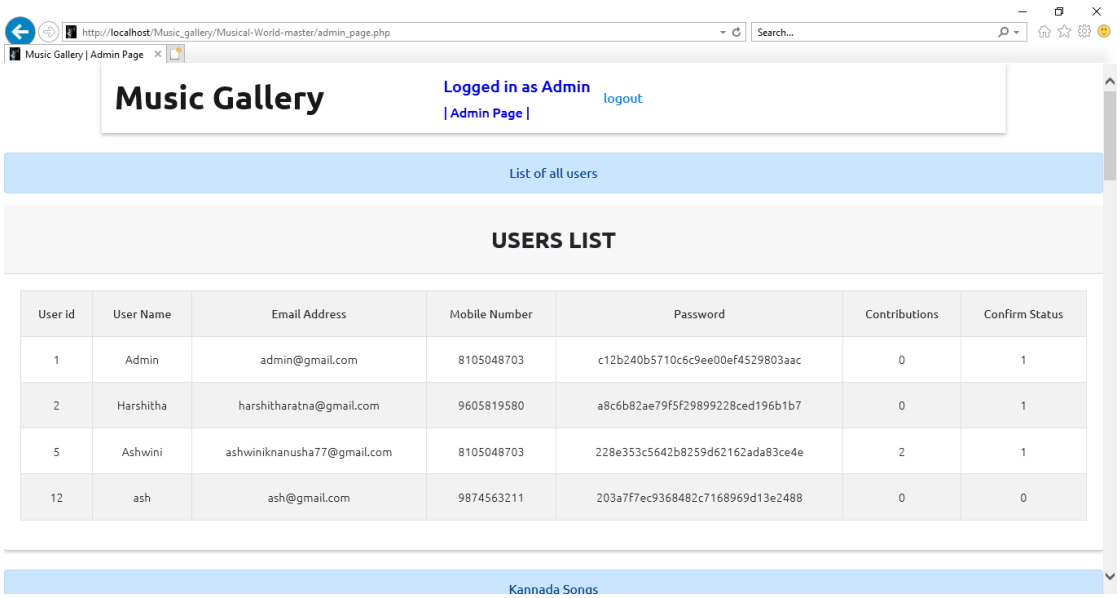


Fig 7.5 Admin page

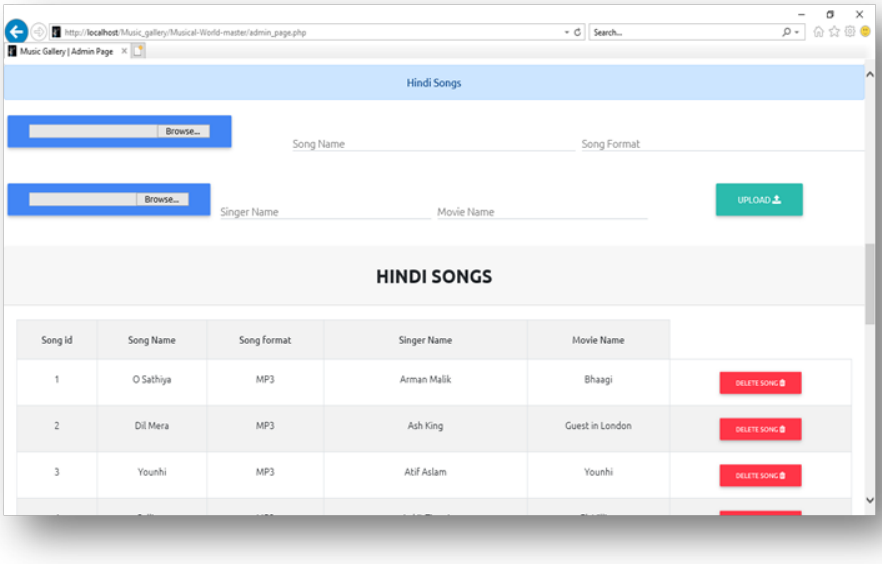


Fig 7.6 Admin Hindi song

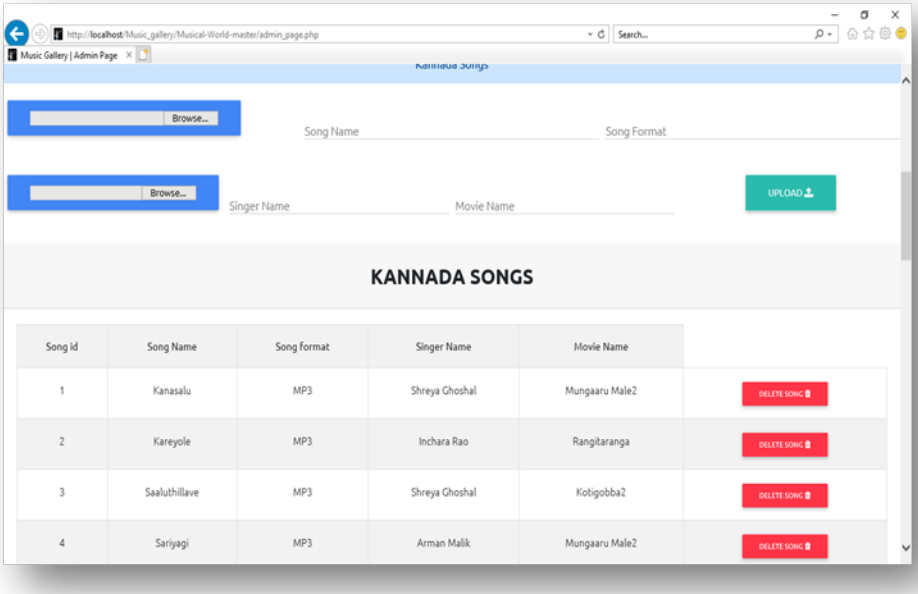


Fig 7.7 Admin Kannada song

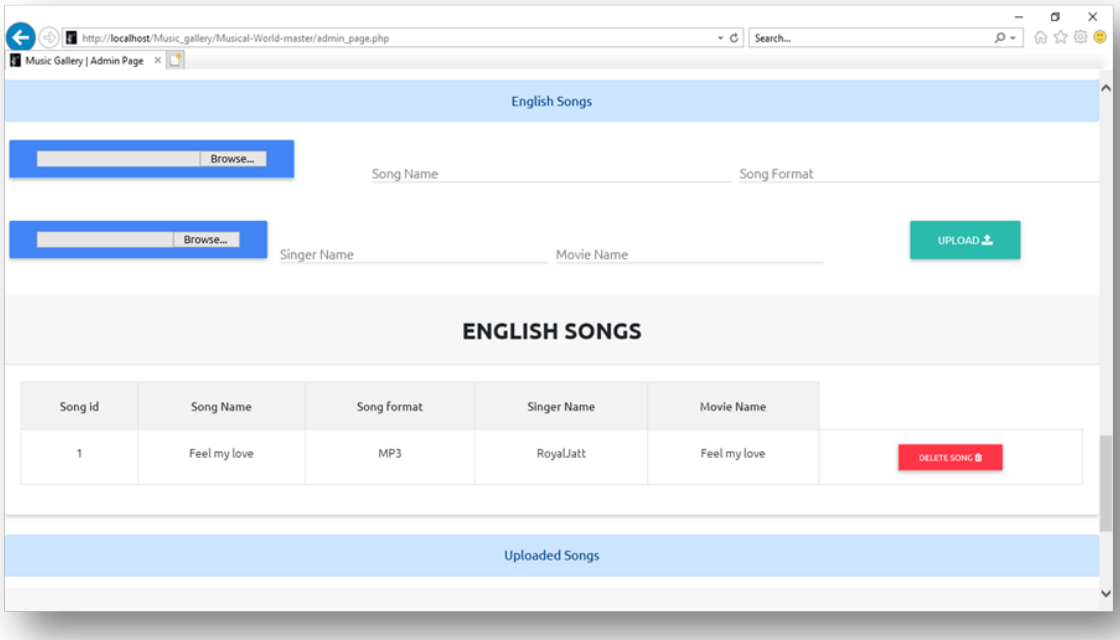


Fig 7.8 Admin English song

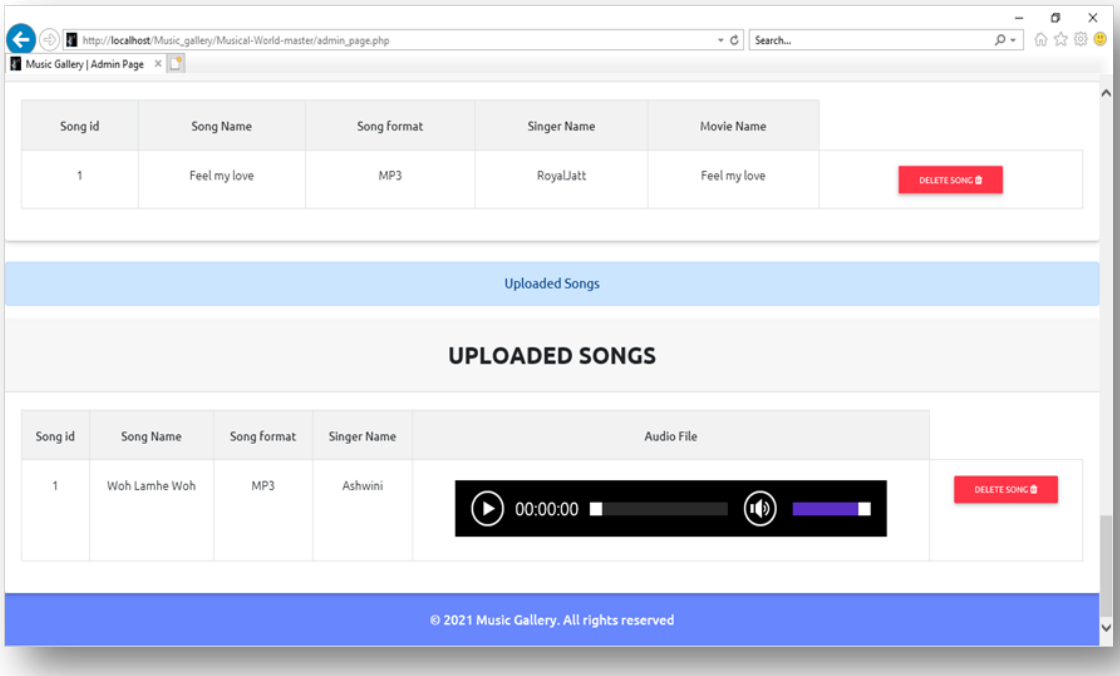


Fig 7.9 User uploaded songs

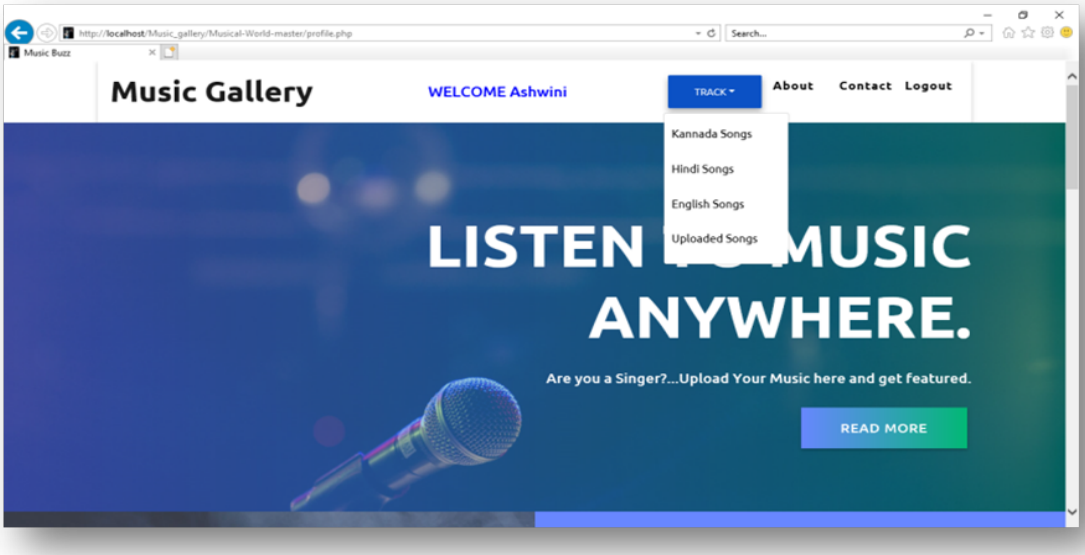


Fig 7.10 User page

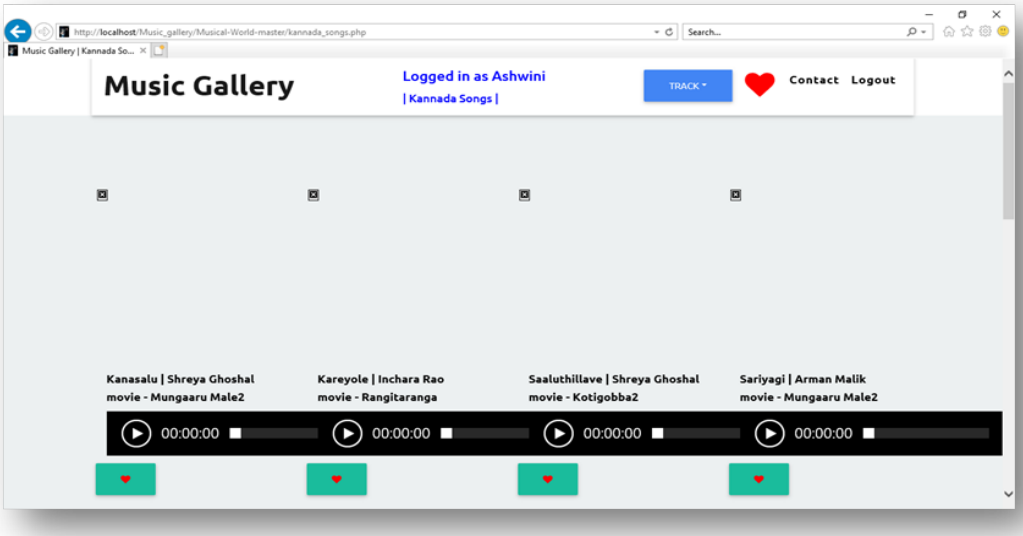


Fig 7.11 User favourite song

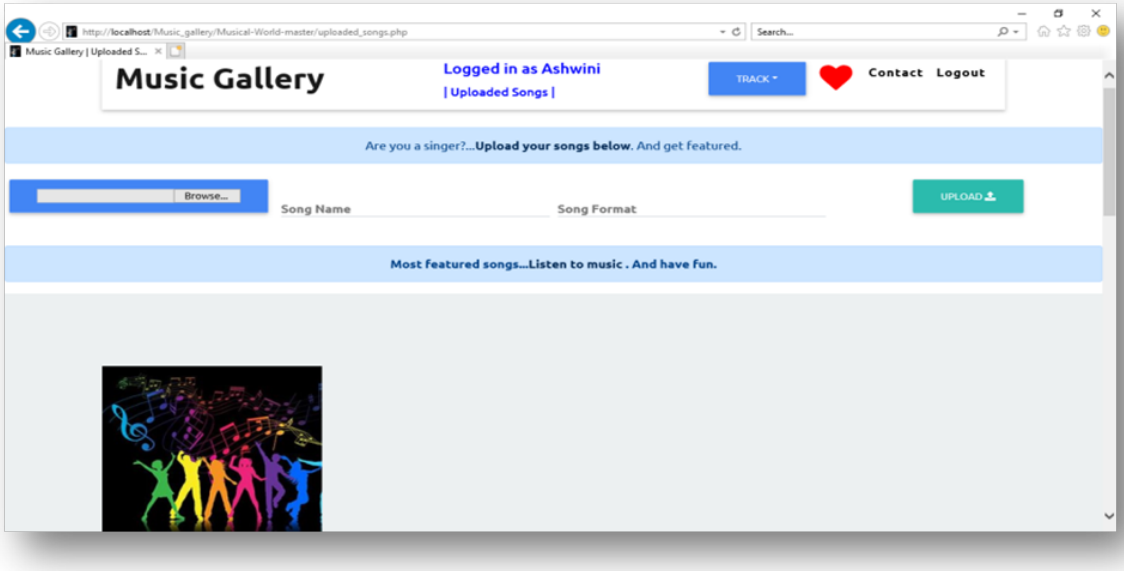


Fig 7.11 User uploaded song

CONCLUSION

This was the great opportunity for us to discover new fields and ways of working for this project. In this project we built an web application called Online Music Gallery, which is used to listen and upload the songs by the user. We started the project with no clear objective, and our main goal at the beginning was to experiment the possibilities of displaying and adding new feature for the project. Therefore, we were very glad to be able to finally produce a complete and working application. We learned a lot about web development, the artistic atmosphere in which we worked clearly motivated us to try new things and gave us an opportunity improve our skills and we are thankful for that.

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