E-MUSIC

1 Introduction

E-Music is a platform where you can listen music and making your own album. It is the place for the music lover. One of the module I deploy on **HEROKU** is its Admin Panel.

E-Music Admin Panel is based on web which provide the facility to the admin to access every module of E-Music. In E-Music Admin Panel you can add your music, edit your music ,delete your music.

1.1 Access Requirement

E-Music Admin Panel access requirement are very simple you just have the latest browser which supports following technologies:-

- Html5.

- CSS3.

- JavaScript.

Following are the browsers which supports all these defined technologies:-

- Google Chrome.

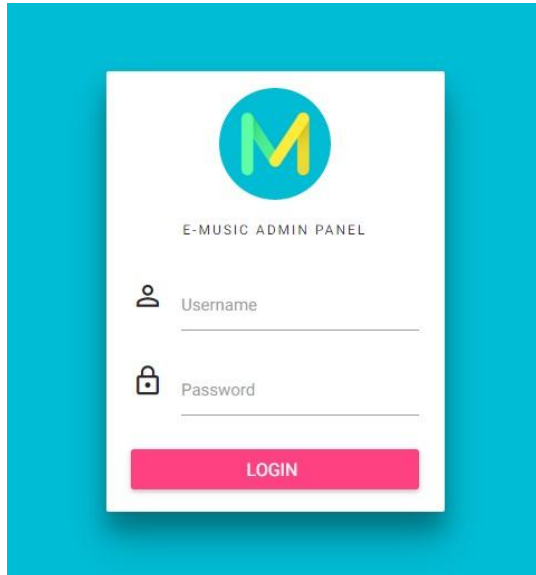- Mozilla Firefox.

- Opera.

   Etc.

1.2 Technology

E-Music Admin panel based on the several technologies :-

- Html5.
- Css3
- JavaScript.
- Php.
- Materialize (Material Design Framework).

1.3   Access E-MUSIC ADMIN PANEL:

Application URL: https://emusic1.herokuapp.com/user-login.php

- ### Sign In Screen

To sign in to E-Music Admin panel :-

✓   Start your web browser.

✓   Enter the web url :

https://emusic1.herokuapp.com/user-login.php

✓   Type your Username.

✓   Type your Password.

✓   Press Sign In button for sign in to E-Music

Admin Panel.

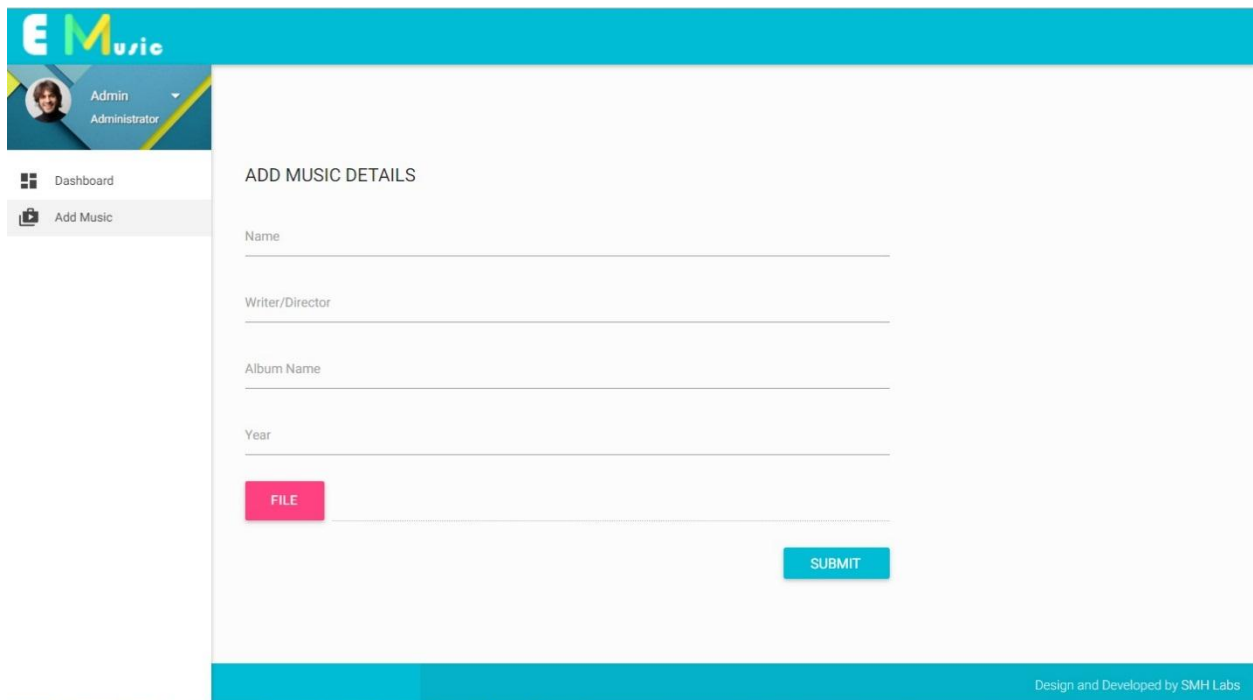- ### Sign Out Screen

To sign in to E-Music Admin Panel :-

✓ Press the Sign Out button to sign out from E-Music admin panel

✓ It destroy the session.

2 Manage Resources

E-Music Admin Panel provides the facility to the admin like he can add music details,edit music details,delete music details.It is the Admin Panel where you can add,edit,delete under one platform.

2.1 Add Music

E-Music Admin Panel provides the facility for adding the details of music which will be populate on E-Music application as well as E-Music Admin Panel display information panel.

Adding Music to admin panel by adding the following details:-
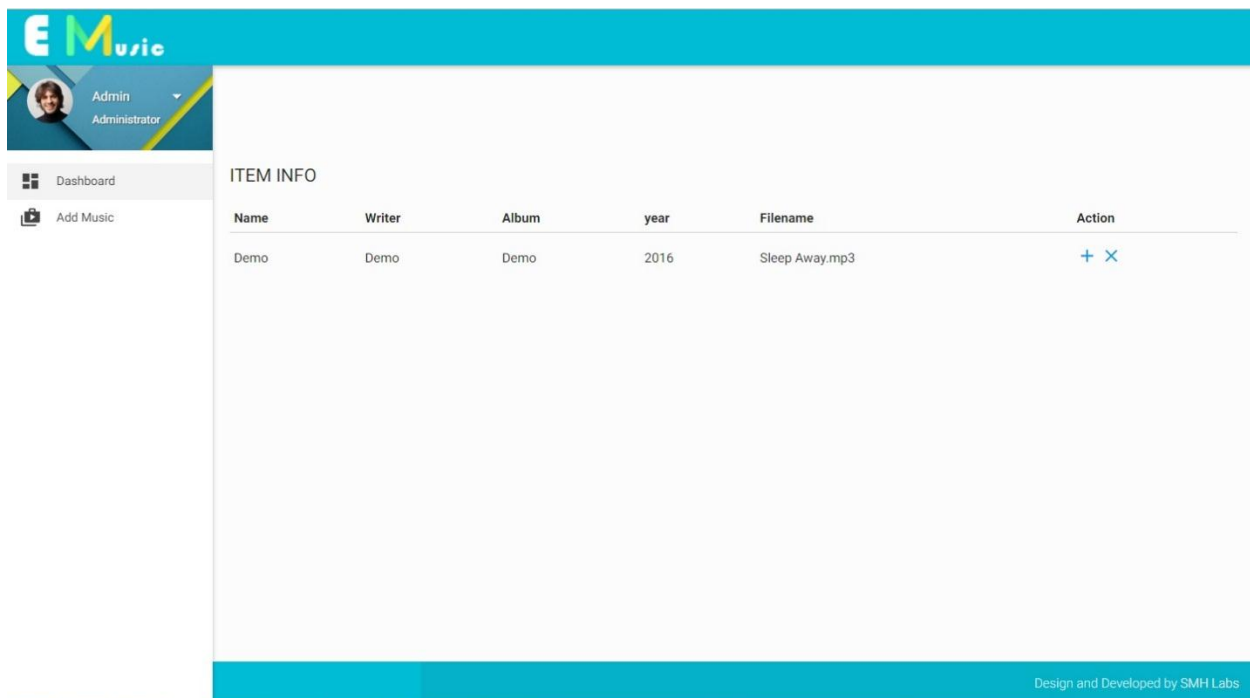
- ✓ Press the Add Music button.
- ✓ Add Music name.
- ✓ Add Writer OR Director name.
- ✓ Add Album name.
- ✓ Add year of song it is released.
- ✓ Add file.

2.1.1 Add Music Properties

- Music Name : The name of the music must be the short name that uniquely identifies the music.
- Writer/Director : The name of the director Or Writer which writes Or Directs the song.
- Album Name : The name of the album of which the songs belong.
- File : The music file must of the format of audio like mp3,au,wav etc.

2.2 Display Music

E-Music Admin Panel provides the facility for displaying the details of music at display information panel.

Displaying Music details to admin panel:-

- ✓ Press the Dashboard button.
- ✓ Music name.
- ✓ Writer OR Director name.
- ✓ Album name.
- ✓ Year of song it is released.
- ✓ File name.

2.3 Update Music

E-Music Admin Panel provides the facility of update(edit) the details of music at update music details panel.

Name	Writer	Album	year	Filename	Action
Demo	Demo	Demo	2016	Sleep Away.mp3	⊞ ✕

UPDATE MUSIC DETAILS

Name

dumy

Writer/Director

dumy

Album Name

dumy

Year

2016

FILE   avatar.jpg

SUBMIT

- (+) By pressing the add button you will update the fields.
- It will retrieve the data from the database and display it in the respective field.
- Then update the fields.
- Press the submit button to update the content.

2.4 Delete Music:

E-Music Admin Panel provides the facility of delete the details of music at admin details panel.

Name	Writer	Album	year	Filename	Action
Demo	Demo	Demo	2016	Sleep Away.mp3	+ ⊠

- (x) By pressing the cross button you will delete the fields.
- It will delete the data from the fields.

3 Prerequisite

3.1 How to Install

- Clone/Download URL : https://github.com/Syedmaqboolhusssain/EMusic
- Server : Download the server XAMPP/WAMP etc.
- Place the folder of the application in htdocs folder.
- Import the database file (iad.sql) from the database folder and import it in your database.
- Edit connection-db.php file and define username and password of phpMyAdmin.

4 Git

Git is a free and open source version control system designed to handle everything from small to very large projects with speed and efficiency.

Version Control

- It keep track the changes in files.
- Merge the code of multiple developer.
- It gives the facility which makes backup of the file.
- It helps to identify bugs.
- It helps to fix conflicts.
- It increases productivity by manually version controlling.

4.1 How to use Git

- Goto www.github.com.
- Register yourself at github.
- Make a repository of your project.
- Download git in your pc (URL : www.git-scm.com)

4.2 Steps to upload project on Git

- Open command line.
- Move to project directory.
- Now run the following commands:-
  - Git init. (It initialize the git in your folder)
  - Git add –a. (It add all files to git server)
  - Git add filename.ext.(It add specific file in your git server)
    e.g: git add demo.php demo1.php
  - Git commit –m "Type your message ".(It ready all the add files to be uploaded on server)
  - Git push –u origin master(In git master is the default branch.We make versioning of our code)
- The command (Git init ,Git push –u origin master) runs only one time when you are making repo.
- After one time you define above commands your repo is created and it is available at git repo.
- If you are making changes locally in your project and you want to push your code and commit in repo.Just type the following command :-
  - Git add filename.ext.
  - Git commit –m "Another changes in repe"
  - Git push. (It push the commit file in repo)

5   Heroku

Heorku is a Platform which as a Service (Paas) cloud offering that provisions the development of Web applications and services. It is a cloud application development platform that provides development tools, scalable processing power and cloud management functionality. Heroku was initially developed for Ruby on Rails and now support various other development languages.

- It provides the facility to deploy the application on web.
- It provides the facility to test,manage application.
- It is a cloud based platform.So you can easily access your account form anywhere
- It provides API's,Source control management,scalability and many other operations.

5.1 How to use Heroku

- Goto URL : www.heroku.com.
- Register your account at heroku.
- Download Toolbelt. (Url: https://toolbelt.heroku.com/)
  Toolbelt is a tool which gives you the facility to access heroku account through command line.
- Now Goto URL : (https://devcenter.heroku.com/articles/getting-started-with-php#introduction)
- The guidance needed to deploy php application on Heroku is available in the above link.It is an official documentation.

5.2   How to deploy application on Heroku

There are two method of deploying an application Heroku :-

5.2.1   Project repository available on git :

- Login to Heroku through Toolbelt.
- Now move to the project directory where your project folder exist through command line. (e.g: cd c:\xampp\htdocs\projectfolder)
- Now run the following commands to deploy application on heroku :-
  - Heroku create application name.(It creates the folder where you will push your application code)
  - Git push Heroku master (It push the code from git repo to heroku master branch)
  - Heroku ps:scale web=1(It scales an application on Heroku basically it change the dynos that are running.Dyno is basically the state of server sleep or not.Heroku basic version server is sleeping approximately 4 hours in a day when it running continuously.)
  - Heroku open.(It open the application on web browser)

5.2.2   Project Repository not available on git :

- Git init. (It initialize the git in your folder)
- Git remote add origin uri-of-your-app-origin.(It pushes your application to git)
- Git add –a. (It add all files to git server)
- Git add filename.ext.(It add specific file in your git server)
  - e.g: git add demo.php demo1.php
- Git commit –m "Type your message ".(It ready all the add files to be uploaded on server)
- Git push –u origin master(In git master is the default branch.We make versioning of our code)
- Git push Heroku master(It push the code from git repo to heroku master branch)
- Heroku ps:scale web=1(It scales an application on Heroku basically it change the dynos that are running.Dyno is basically the state of server sleep or not.Heroku basic version server is sleeping approximately 4 hours in a day when it running continuously.)
- Heroku open(It open the application on web browser)

5.3   Problem facing to deploy app on heroku

- Heroku not support mysql older version.So use latest version mysqli to connect with database.
- Heroku not supports mysql database free to deploy on Heroku.So deploy your database online means use hosted database which is available online.
  URL: http://www.freemysqlhosting.net/

5.4 Conclusion

To deploying an application on Heroku is a great learning thing that we are deploying an application on a cloud based platform.So that we can share it and do many things what we want.In learning of Heroku you learned how to use Git,making repository in Git,how Git is version/source controlling.This assignment helps to do work in future because now a day Git is a hot topic and most of the organisations used it.Atlast I say that I made a very basic version of E-Music Admin Panel if any wants to contribute Or extent my project it will be great honour for me.

6 About Me

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