

SHONGEET – MUSIC FOR LIFE

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A project/report submitted

in partial fulfilment of the requirements

for the degree of

Bachelor of Science in Computer Science and Engineering

UNIVERSITY OF LIBERAL ARTS BANGLADESH

DECLARATION

I declare that this report/ project entitled “*Shongeet-Music for life*” is the result of my own research except as cited in the references. The report /project has not been accepted for any degree and is not concurrently submitted in candidature of any other degree.

Signature : 

Name : S.M. QAIYUM AZAD

ID : 171014027

Date : October 10, 2021

CERTIFICATE OF APPROVAL

The project report/ project entitled “*SHONGEET-MUSIC FOR LIFE*” is submitted to the Department of Computer Science and Engineering at University of Liberal Arts Bangladesh (ULAB) in partial fulfillment of the requirements for the degree of Bachelor of Science.

Dated: October 10, 2021

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DEDICATION

To my stunning guardians, who gave me perpetual love, trust, consistent consolation throughout the long term, and for their patience

To my tutors and companions for their understanding, backing, love, and for persevering through the high points and low points during the finish of this proposition.

This report is dedicated to them.

ACKNOWLEDGEMENT

I wish to communicate my most profound appreciation to each one of the individuals who helped me, somehow, to finish this undertaking. Above all else, I say thanks to Almighty who gave me strength, bearing and reason all through the task.

Special thanks to my project supervisor Bijan Paul all his patience, guidance and support during the execution of this project. Through his master direction, I had the option to conquer every one of the obstructions that I experienced in these suffering three months of my undertaking. Indeed, he generally gave me huge expectation each time I talked with her over issues identifying with my venture.

My friends and family gave me feedback and suggestions that helped to improve my project. I am really thankful to them.

ABSTRACT

In Bangladesh there is no good quality music streaming website. Now this day, in Bangladesh online streaming platform is being very popular, like Hoichoi, Chorki, Netflix. These are online video streaming website with a lot of paid subscribers. Since Bangladeshi Musician dose not release much audio album these day because of piracy, a lot of new songs are not being created because they are not getting paid as much as it should because of these problems. So most of them releasing new songs to YouTube and the audio quality is not that good, there is a problem with advertisement. By a paid membership website, musicians will generate good amount of money out of their work and people will be able to listen awesome studio quality song.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

Several Website & application has been researched and further developed “SHONGEET” website for Bangladeshi music streaming platform which will provide people a smooth user-friendly website to enjoy Bangla music.

1.2 Motivation

In Bangladesh a few music streaming website is available and they are not providing good quality services. Also music piracy is a big issue. Many website provide downloadable music without taking consents of musicians and therefore musicians is losing loyalty of their hard work. This needs to stop to grow Bangladeshi music industry. Our website will give proper loyalty to musicians and help to set an example of a good quality clean platform that does not exists in Bangladesh.

1.3 Objectives

The objective of this project is to make a good quality music streaming website for Bangladeshi people which will be user friendly, money-making website and will making sure that musicians will get their loyalty of their work which will sustain the development of our music industry.

1.4 Expected Outcome

After completing this project an audio music streaming website will be ready where people will able to listen songs & search songs/artists/album and view lyric. Users will also be able to create & delete playlists and will be able to download audio file.

1.5 Project Management & Finance

Management char of entire project:

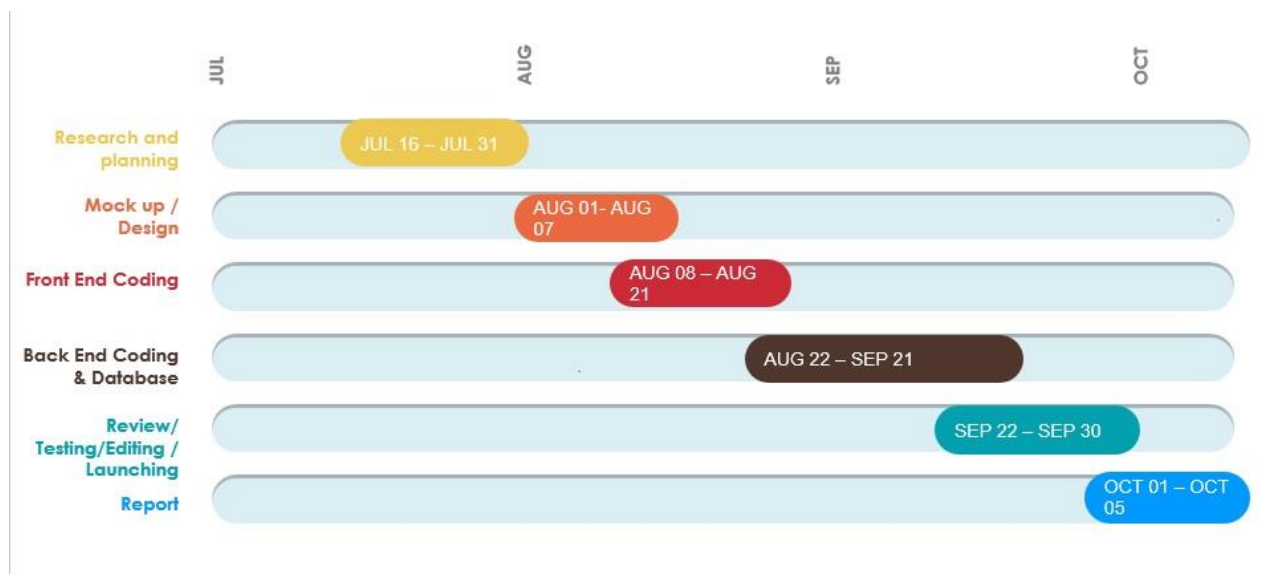


Figure 1.1: Project management (Gantt chart)

Finance: No money has been spent to develop this project. However to launch this project, a large amount of investment will be needed.

CHAPTER 2

BACKGROUND

2.1 Preliminaries/Terminologies

SQL: It is query language for database, full form is Structured Query Language

MySQL: It is database management system name.

PHP: Full form is Hypertext Preprocessor. It is a programming language for website

JavaScript: Name of Programming Language

HTML: It stands for Hypertext Markup Language

CSS: Cascading Style Sheet

2.1 Related Work

Several website has been researched and analysis has been done based on their design, features, availably, pricing. Small Introduction is given below of each website.

2.1.1 Spotify

Spotify is the most popular website for audio streaming website worldwide. It has also android and iOS app. It has 365 million user including 165 million paid subscribers. It show ads for freemium users and does not show any ads in premium users.

2.1.2 Hungama

Hungama is an Indian audio and video streaming website. It has 50 million monthly users. It provides different content based on the local languages of India.

2.1.3 GP MUSIC

GP MUSIC let users to listen Bangla music through their website. The service is free but it has limited albums and songs. It does not provide high quality music.

2.1.4 Shadhin App

This application has good numbers of music and features but it does not support hifi quality music. Also this platform does not have a website version, only android and iOS application. Premium charges is 199 TK/ Year.

2.1.5 Robi Beats

Robi Beats has a website for listening music but users have to use only Robi mobile data to access the content. Also 39 BDT/month charges will be applied.

2.3 Comparative Analysis

Despite the foreign websites, Bangladeshi Platform does not provide high quality music for premium users. They only provide standard mp3 files. But Spotify provides higher quality music files. Also Shadhin App provides video streaming services. None of the Bangladeshi platforms provide high quality music. Also Gpmusic's website is slower and often stays unavailable. In this market the competition is very low, with right marketing strategy this platform will be a good business platform.

2.4 Scope of the problem

The main problem is that many other websites unlike these streaming platforms, let people download songs for free that's why these legal music streaming websites are not growing. Also high quality music is required nowadays. So these platforms are not in a good place for now but with right approach and copyright claim, this platform will be a good clean platform and this will create an environment for good business.

2.5 Challenges

The main challenges will be the storage problem. Hi-Fi quality means high amount of server storage and high amount of bandwidth, which means large amount of investment needed. Also to make profit out of it will take good marketing strategy. A long term business plan will be needed. Also copyright claim has to be made by musicians to take down illegal websites.

CHAPTER 3

REQUIREMENT SPECIFICATION

3.1 Business Process Modelling

We will offer client two options. Freemium and Premium option. Freemium option will come with 128kbps quality music and with advertisement of profits. But with Premium option clients will be able to enjoy high quality music 1200-1500kbps/ CD quality sound without advertisement.

Premium Value: 400 TK per Year. 700 for two members with one account.

Monthly subscription: 50TK

How musician will be paid: Initially Musicians will be paid 0.10 BDT per stream. They will be paid end of the year. Based on the subscribers and users payment will be increased of the musicians.

Profit: It will take 4 to 5 years to make this website popular among citizens based on marketing strategy.

In 5 years, our targeted paid customer should be at least 3 million. Company will be able to profit through it after then.

3.2 Requirement Collection & Analysis

Total Users: Admin and Client

Total Pages: 4 pages:

- 1) Admin login page
- 2) admin control area
- 3) user login/registration page
- 4) user main songs area.

Admin Role:

- 1) admin can upload songs
- 2) add details to the songs
- 3) can edit and upload details of songs
- 4) and can view total number of users and songs
- 5) can view how many times songs played
- 6) can view payment details.

Client Role:

- 1) client can registration/login
- 2) can update username password
- 3) listen to songs, and create/delete playlist
- 4) make payment
- 5) search songs/artists
- 6) view lyric

3.3 Use Case Modelling and Description



Figure 3.1: use case diagram

3.3 Logical Data Model

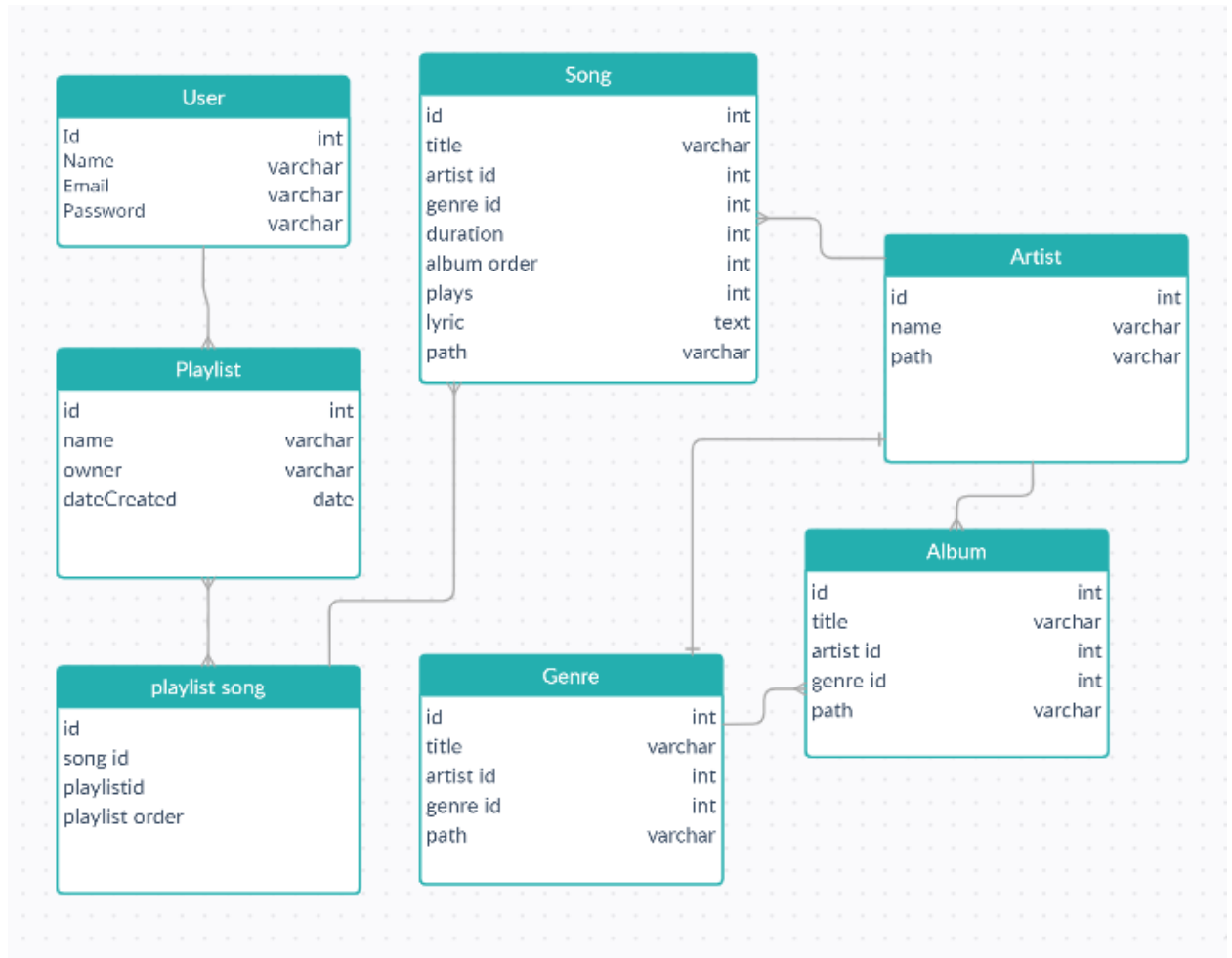


Figure 3.2: logical data model

CHAPTER 4

DESIGN SPECIFICATION

4.1 Front-End Design Specification

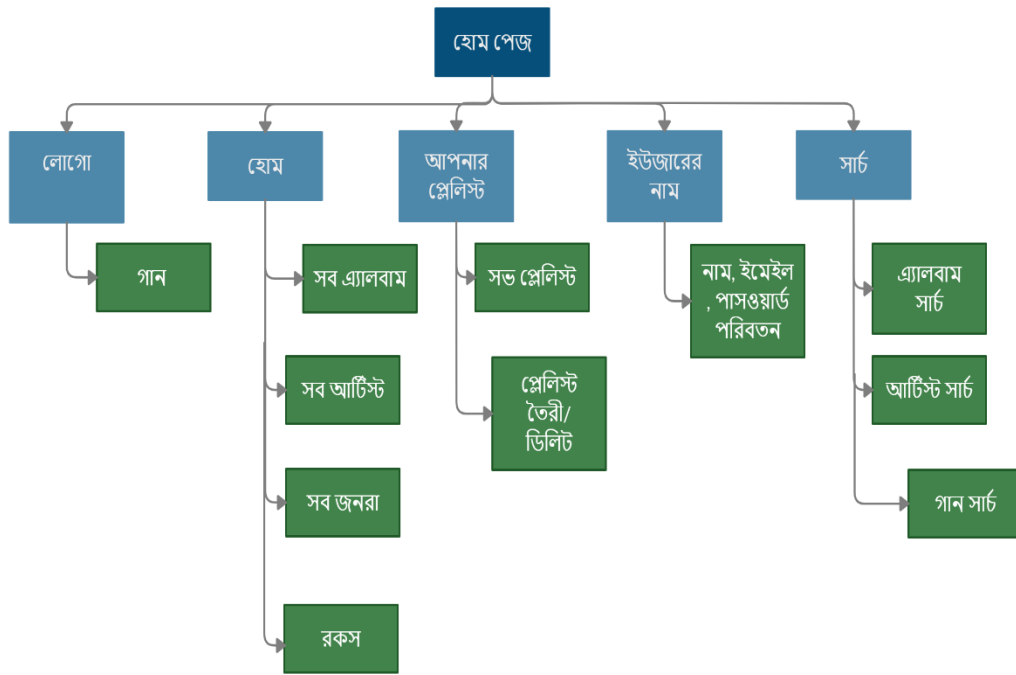


Figure 4.1: front-end design specification

4.2 Back-End Design Specification

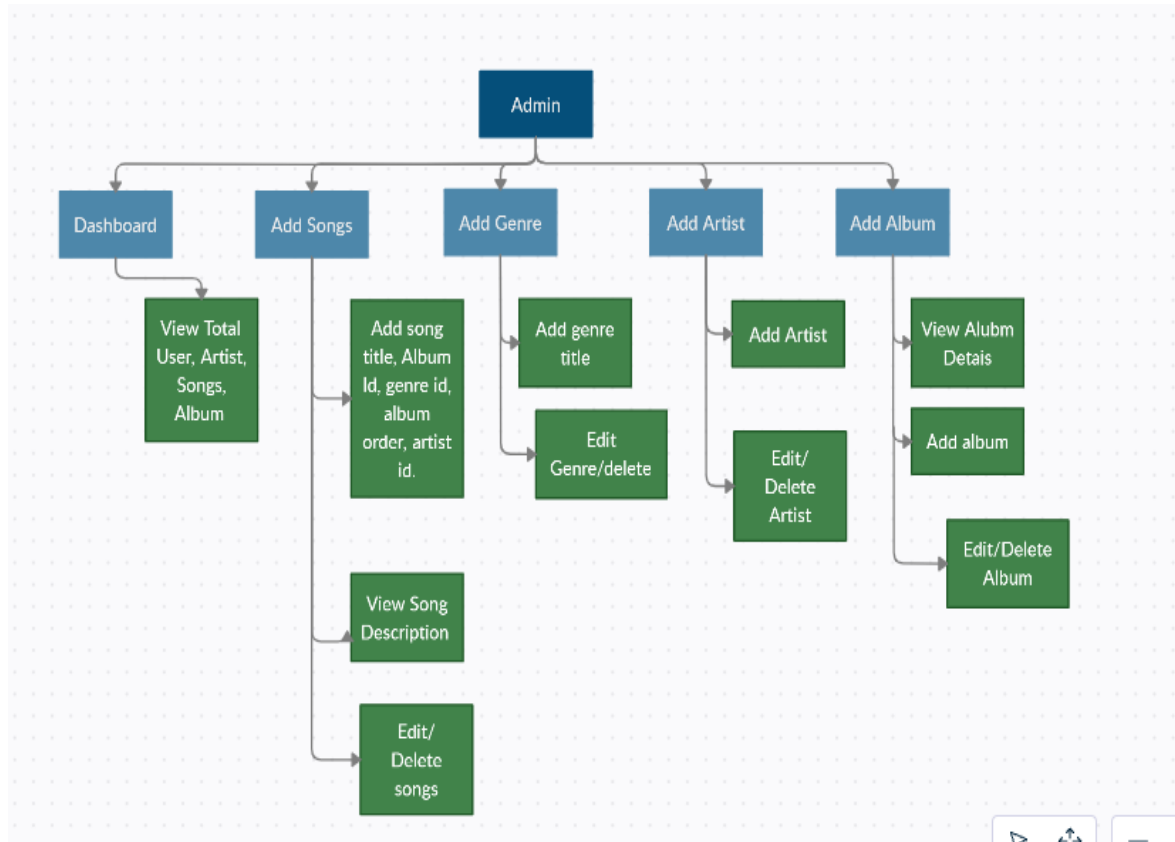


Figure 4.2: Back-end design specification

4.3 Interaction Design & User Experience

Interaction Design





First of all users will be able to register/login to the website. After that they will be able to browse albums, search songs/artists/albums. The users can play the music, create/delete playlist and add/remove songs to playlists.

4.4 Implementation Requirement

For front-end section HTML, CSS, JS, Bootstrap, AJAX has been used and for back-end MySQL and PHP has been used. No frame-work has been used for development without Bootstrap.

CHAPTER 5

IMPLEMENTATION & TESTING

5.1 Implementation of Database

Table ▲	Action	Rows	Type	Collation	Size	Overhead
☐ albums	★ Browse Structure Search Insert Empty Drop	9	InnoDB	latin1_swedish_ci	16.0 KiB	-
☐ artists	★ Browse Structure Search Insert Empty Drop	5	InnoDB	latin1_swedish_ci	16.0 KiB	-
☐ genres	★ Browse Structure Search Insert Empty Drop	10	InnoDB	latin1_swedish_ci	16.0 KiB	-
☐ playlists	★ Browse Structure Search Insert Empty Drop	6	InnoDB	latin1_swedish_ci	16.0 KiB	-
☐ playlistsongs	★ Browse Structure Search Insert Empty Drop	6	InnoDB	latin1_swedish_ci	16.0 KiB	-
☐ songs	★ Browse Structure Search Insert Empty Drop	6	InnoDB	latin1_swedish_ci	16.0 KiB	-
☐ users	★ Browse Structure Search Insert Empty Drop	3	InnoDB	latin1_swedish_ci	16.0 KiB	-
7 tables	Sum	45	InnoDB	utf8mb4_general_ci	112.0 KiB	0 B

Figure 5.1: Whole database

Options

				id	title	artist	genre	artworkPath			
☐		Edit		Copy		Delete	1	Dukhini Dukkho Korona	7	2	assets/images/artwork/james.jpg
☐		Edit		Copy		Delete	2	Kosto	6	10	assets/images/artwork/Aiub.jpg
☐		Edit		Copy		Delete	3	Dekha Hobe Bondhu	8	1	assets/images/artwork/Dekha Hobe Bondhu.jpg
☐		Edit		Copy		Delete	4	Onnoshomoy	10	10	assets/images/artwork/artcell.jpg
☐		Edit		Copy		Delete	5	Best of Hasan	12	2	assets/images/artwork/hasan.jpg
☐		Edit		Copy		Delete	6	Juddho	14	11	assets/images/artwork/powersurge.jpg
☐		Edit		Copy		Delete	7	Uddeshho Nei	9	2	assets/images/artwork/tahsan.jpg
☐		Edit		Copy		Delete	8	Oporajito	13	2	assets/images/artwork/recall.jpg
☐		Edit		Copy		Delete	9	Protissruti	11	1	assets/images/artwork/miles.jpg

Figure 5.2: album

+ Options

				id	title	artist	album	genre	duration	path	albumOrder	plays	lyric	▲ 1		
☐		Edit		Copy		Delete	1	Bibagi	7	1	1	5:52	assets/music/James-Bibagi.mp3	1	33	
☐		Edit		Copy		Delete	2	Tumi Jodi Nodi Hou	7	1	1	4:22	assets/music/James-Tumi Jodi Nodi Hou.mp3	1	17	
☐		Edit		Copy		Delete	4	Sei Tumi	6	2	3	7:19	assets/music/Shei Tumi-LRB.mp3	2	20	
☐		Edit		Copy		Delete	5	Dekha Hobe Bondhu	8	3	4	4:14	assets/music/Dekha hobe bondhu-Partho.mp3	3	39	
☐		Edit		Copy		Delete	29	Astor	9	7	2	2:01	assets/music/Astor.mp3	2	0	
☐		Edit		Copy		Delete	3	Dukhini	7	1	1	3:54	assets/music/James-Dukhini.mp3	1	21	How many of you ready to take life risk for your f...

Figure 5.3: songs

+ Options

 					id	songId	playlistId	playlistOrder		
☐		Edit		Copy		Delete	1	23	1	0
☐		Edit		Copy		Delete	3	5	3	0
☐		Edit		Copy		Delete	4	1	3	1
☐		Edit		Copy		Delete	5	2	3	2
☐		Edit		Copy		Delete	6	3	3	3
☐		Edit		Copy		Delete	7	1	8	0

Figure 5.4: playlist

+ Options

					id	name	artistPath
☐	Edit	Copy	Delete		7	James	assets/images/artwork/james.jpg
☐	Edit	Copy	Delete		8	Partha Barua	assets/images/artwork/Partha -Barua.jpg
☐	Edit	Copy	Delete		9	Tahsan	assets/images/artwork/tahsan.jpg
☐	Edit	Copy	Delete		10	Lincon	assets/images/artwork/lincon.jpg
☐	Edit	Copy	Delete		11	Shafin Ahmed	assets/images/artwork/shafin.jpg

Figure 5.5: Artist

+ Options

					id	name	genresPath
☐	Edit	Copy	Delete		2	Pop	
☐	Edit	Copy	Delete		4	Rap	
☐	Edit	Copy	Delete		6	Classical	
☐	Edit	Copy	Delete		8	Jazz	
☐	Edit	Copy	Delete		9	Folk	
☐	Edit	Copy	Delete		10	Metal	
☐	Edit	Copy	Delete		11	Heavy Metal	
☐	Edit	Copy	Delete		12	Death Metal	assets/images/artwork/Screenshot (12).png
☐	Edit	Copy	Delete		14	Instrumental	assets/images/artwork/country.jpg
☐	Edit	Copy	Delete		15	Country	assets/images/artwork/country.jpg

Figure 5.6: Genre

+ Options

				id	username	firstName	lastName	email	password	signUpDate	profilePic			
☐		Edit		Copy		Delete	3	qaiyum	Qaiyum	Azad	Qaiyum@gmail.com	07b68be905ddc7243d684007163d9fcd	2021-09-03 00:00:00	assets/images/profile-pics/head_emerald.pr
☐		Edit		Copy		Delete	4	azaddd	Qaiyum	Azad	Azad@gmail.com	62c8ad0a15d9d1ca38d5dee762a16e01	2021-09-11 00:00:00	assets/images/profile-pics/head_emerald.pr
☐		Edit		Copy		Delete	5	rahim	Abdur	Rahim	Rahim@gmail.com	62c8ad0a15d9d1ca38d5dee762a16e01	2021-09-28 00:00:00	assets/images/profile-pics/head_emerald.pr

Figure 5.7: User

5.2 Implementation of Front End Design

আপনার একাউন্টে লগইন করুন

ইউজারনেম
e.g. qaiyumAzad

পাসওয়ার্ড
আপনার পাসওয়ার্ড

লগইন করুন

কোনো একাউন্ট নেই? এখানে একাউন্ট নিবন্ধন করুন।

অসংখ্য বাংলাগানের গানের সমাহার

ফ্রিতে শুনুন বাংলা গান

- ✓ আপনার প্রিয় গান গুলোকে খুঁজুন সহজেই
- ✓ আপনার নিজের প্লেলিস্ট তৈরি করুন
- ✓ নতুন গানের আপডেট পেতে আর্টিস্টদের ফলো করুন
- ✓ সাবস্ক্রিপশন কিনে হাই-ফাই কোয়ালিটি গান উপভোগ করুন

Activate Wi
Go to Settings

Figure 6.1: login/register page

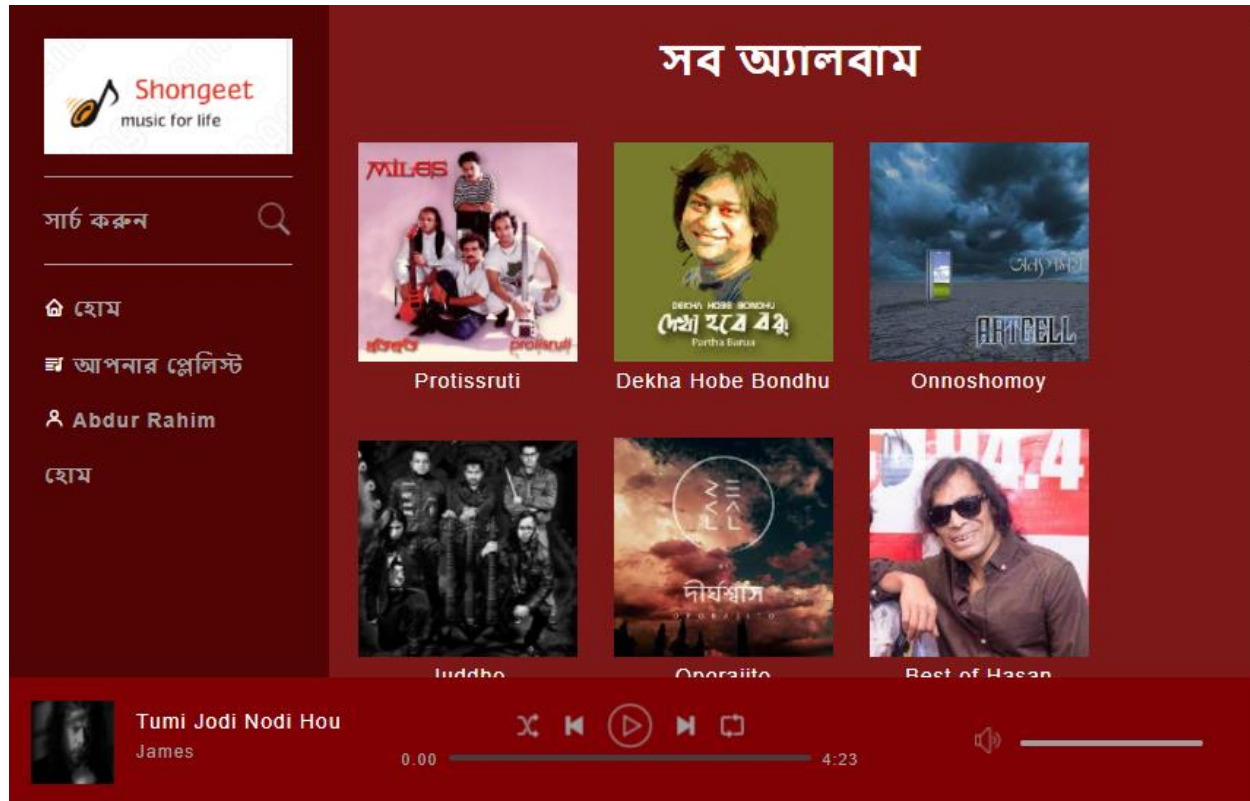


Figure 6.2: Main Page

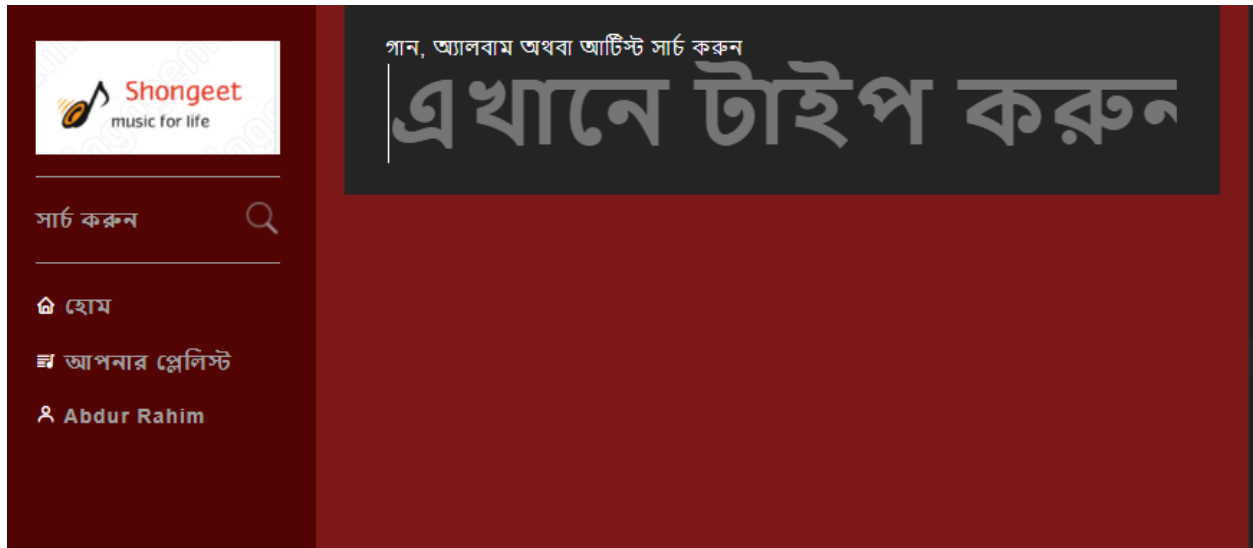


Figure 6.3: search option

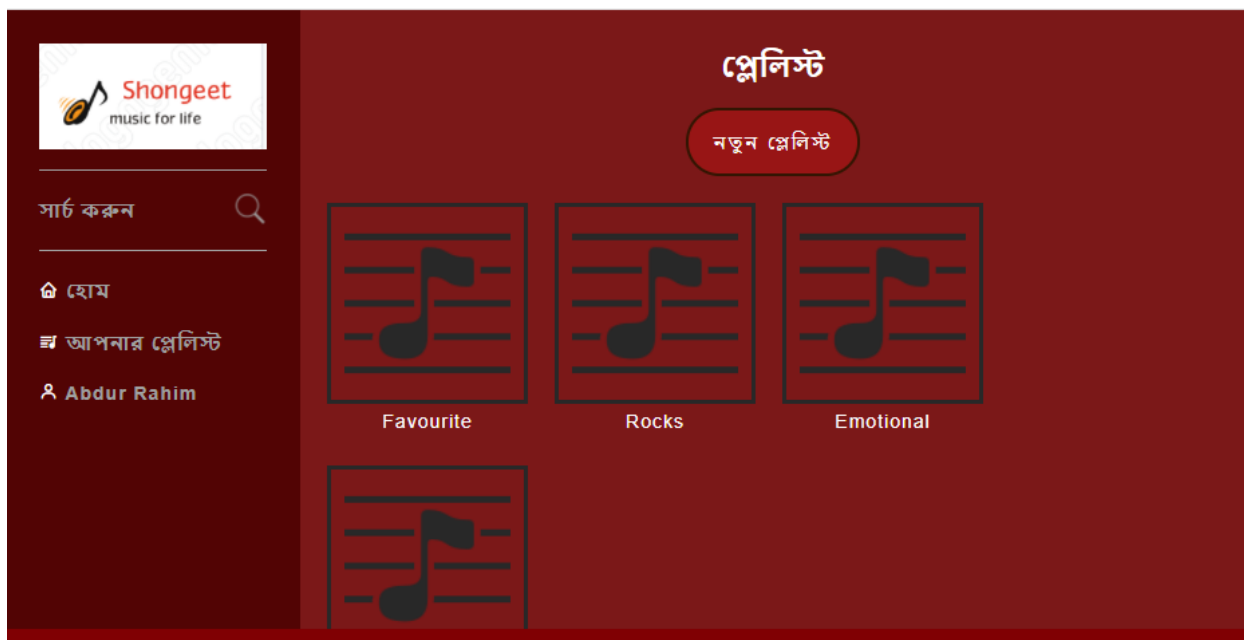
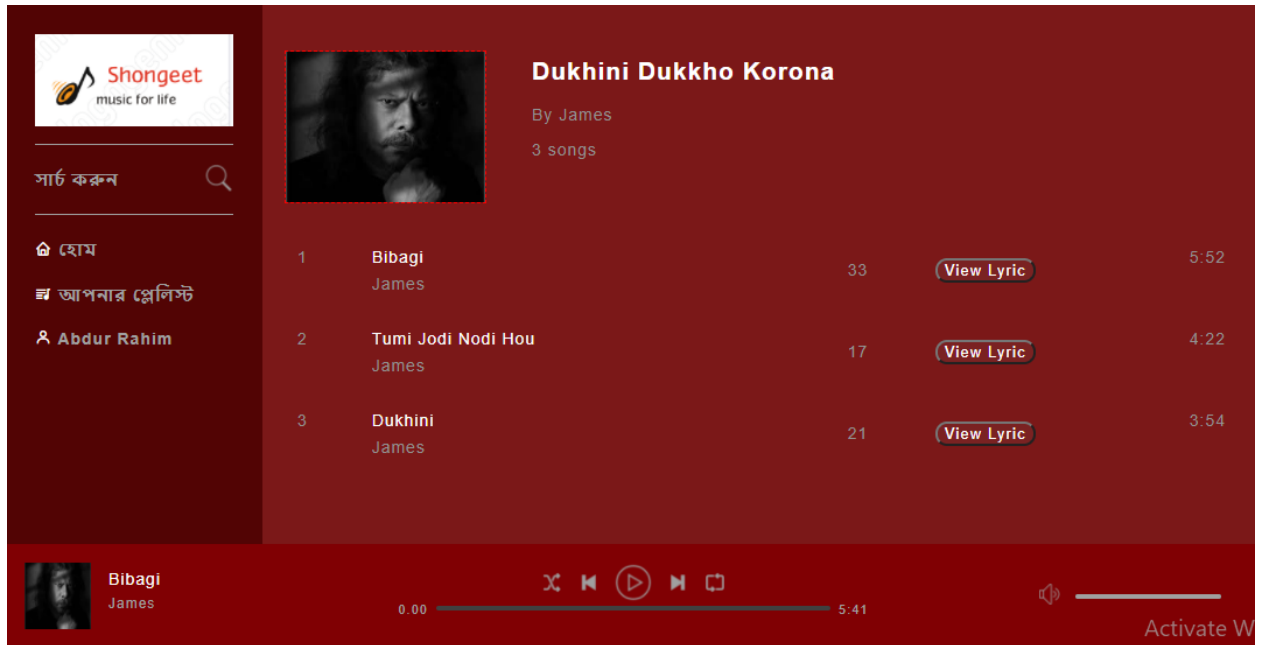


Figure 6.4: playlist

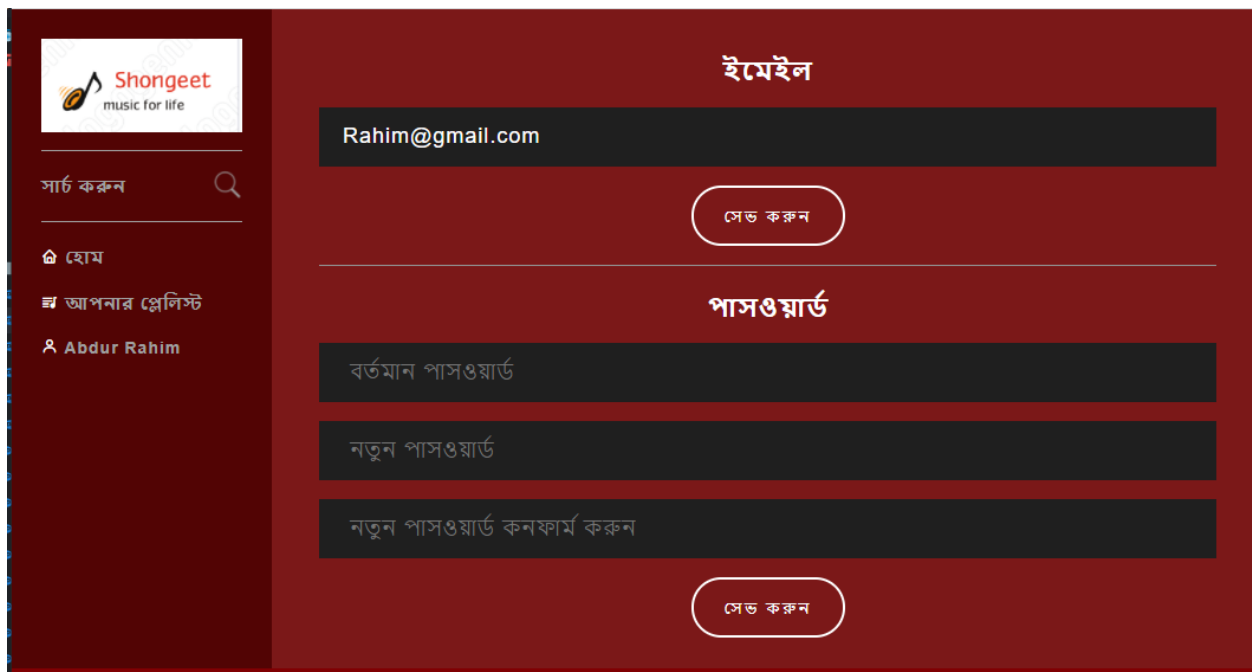


The screenshot shows the Shongheet music application interface. On the left is a sidebar with the logo 'Shongheet music for life' and navigation options: 'সার্চ করুন' (Search), 'হোম' (Home), 'আপনার প্লেলিস্ট' (Your Playlist), and 'Abdur Rahim'. The main content area displays the album 'Dukhini Dukkho Korona' by James, featuring a portrait of the artist. Below the album name, it says 'By James' and '3 songs'. A list of three songs is shown:

Song Number	Song Name	Artist	Duration	Action
1	Bibagi	James	3:33	View Lyric
2	Tumi Jodi Nodi Hou	James	4:22	View Lyric
3	Dukhini	James	3:54	View Lyric

At the bottom, a music player is visible, currently playing 'Bibagi' by James. The player includes a progress bar (0:00 to 5:41), playback controls (play, pause, skip, volume), and a 'Activate W' button.

Figure 6.5: songs



The screenshot shows the 'Edit Profile' form in the Shongheet application. The sidebar is identical to the previous figure. The main content area has a dark red background with the title 'ইমেইল' (Email) in white. Below the title, there is a text input field containing 'Rahim@gmail.com' and a 'সেভ করুন' (Save) button. A horizontal line separates this section from the 'পাসওয়ার্ড' (Password) section. The password section contains three text input fields: 'বর্তমান পাসওয়ার্ড' (Current Password), 'নতুন পাসওয়ার্ড' (New Password), and 'নতুন পাসওয়ার্ড কনফার্ম করুন' (Confirm New Password). A 'সেভ করুন' (Save) button is located at the bottom of the password section.

Figure 6.6: edit profile

5.3 Testing Implementation

After testing the implementation, some error has occurred and has been solved. Not all the of the Requirements has been full filled because of shortage of time. Otherwise system is working properly, all the data has been showing perfectly. User can use this system smoothly.

Function	Description	IF Implemented
User Login/Logout/	User can register on the website after that login/logout	YES
Music Listening	User can play, pause, shuffle music	YES
Edit Account	user details can be edit	YES
Playlist	user can add/edit/delete playlist	YSE
View Lyric	Check if user can view lyric	YES

Add songs/album/genre/artist	admin add songs, album, genre, artist to database by admin panel	YES
Edit/delete song/album/genre/artist details	admin can perform edit/delete song details	YES

5.4 Test Result & Report

After testing the system, some problem had found. Those problem are solved accordingly. System up and running now.

Function	Description	Test Result
Login/Logout/	User can register on the website after that login/logout	PASSED
Music Listening	User can play, pause, shuffle music	PASSED

Edit Account	Check if user details can be edit	PASSED
Playlist	Check if user can add/edit/delete playlist	PASSED
View Lyric	Check if user can view lyric	PASSED
Add songs/album/genre/artist	Check if admin add songs, album, genre, artist to database by admin panel	PASSED
Edit/delete song/album/genre/artist details	Check if admin can perform edit/delete song details	PASSED

CHAPTER 6

IMPACT ON ENVIRONMENT, SOCIETY & SUSTAINABILITY

6.1 Impact on society

This project will help Bangladeshi musicians to promote and gain their revenue of their hard work and Creativity. This will inspire our musicians to make more music for our people. Also an activity of Antipiracy movement will ensure the sustainability of our music industry. There will be job opportunities Of our citizens & IT experts if this project launched.

6.2 Impact on Environment

There will be no negative impact on the environment because of this project

6.3 Ethical Aspect

One of the most unethical event happens because of music piracy in our country. By this project we can

start an antipiracy movement in our country. Also musicians does not get the proper money of their creativity. We will ensure their music gets to people and by profiting out of it, musicians gets their money.

CHAPTER 7

CONCLUSION & FUTURE SCOPE

7.1 Discussion & Conclusion

Online streaming platform is increasing day by day and it creates a good business opportunity. Also our music industry is now in not in a good position because of piracy. A clean environment will make sure of the sustainability of the industry. Also this website will ensure a good quality music platform for music lovers. Besides of that musicians will get proper money of their hard work and creativity.

7.2 Scope for further development

There are a lot of opportunity to improve this website. More features can be added to the user side like sharing option, chat option, newsletter, follow friend and their activity etc. Also on the admin site there is lot to add and improve like statistics and data visualization, revenue showing and musicians review section etc. For time technical & limitation many features has not been added.

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GPMUSIC(<https://player.gpmusic.co>)
Robi Bangla Beats (<http://robibanglabeats.com/>)