Project Report

on

Front-End Design of A Music Web-app

Submitted to

LOVELY PROFESSIONAL UNIVERSITY

in partial fulfillment of the requirements for the award of degree of

Bachelor of Computer Science and Engineering

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CHAPTER 1

INTRODUCTION

1.1 Introduction

“Words make you think a thought
Music makes you feel that feeling
And song makes you feel thought.” :

I probably think that most of my motivation comes from Music ! There’s nothing that could put me away from it. I mean I start and end my day with music blessing my soul out ! Music is an outburst of a soul ! It is an ultimate literature of the heart! It commences where speech ends!

So, I created this music app to give a feel about the music to the people.

According to the the given assignment for course INT219 I have created this music Web-app using some front-end technologies like HTML,CSS, SCSS, Java script & Bootstrap. I enjoyed making this web-app, this is my first time making an music app from the scratch, using base technologies, it helped me, in revising my Java-script knowledge. I used all the concept of java-script to create a simpler but beautiful UI design.

1.2 Common keywords used :

1.2.1 Playlist :

A playlist is simply a collection of songs. You can make your own, share them, and enjoy the millions of other play-lists created by artists, and other listeners worldwide.

1.2.2 Lyrics Player

You can see some lyrics as they’re sung (or rapped, or screamed) and get info about the song such as the inspiration behind it and interesting facts.

1.2.3 Local Storage

The read-only local storage property allows you to access a Storage object for the Document's origin; the stored data is saved across browser sessions. Local storage is similar to session storage, except that while data stored in local storage has no expiration time, data stored in session storage gets cleared when the page session ends.

CHAPTER 2

TECHNOLOGIES USED

2.1 Technologies used in my app

So I created this music web app using following technologies

- HTML
- CSS
- SCSS
- Java script
- Bootstrap
- Font-awesome etc.

2.1.1 Use of Javascript

HTML & CSS is the base of each and every website so there isn't anything to explain but I would like to explain how I have used Javascript in my web-app. There are 5 modules in my web-app fully functioning. For making website interactive we use Javascript to control the actions performed on DOM (Document Object Model).

I have created Landing page where there is a music playing in the background and lyrics is coming as starts playing. It uses a javascript function to control the Lyrics of the song.

Then there is a sidebar menu which is also controlled using Javascript only. We add and remove some classes on clicking on bar menu, when bar menu is open, bar icon will changes to x, that represents that you can click again and sidebar will be gone.

In my 3rd module which is the home page of the website, I have used lot's of javascript function to control the interactions.

There is a option of creating a new playlist in the app, when we click on that it will open a dialogue box on whole screen, on this dialogue box we have a form, where we can write the name and a little description of the playlist and click on create, It will create a new playlist, listed in there below play lists.

To store the user's data without back end or database, for this I have used browser's own local storage. When user try to login, it will create a temporary account & save user's details in local storage and further authentication will be done according to this.

CHAPTER 3

MODULES

3.1 Different Modules in website

There are 6 to 7 modules are currently working in my music webapp. Following are the modules

- Landing Page
  - Lyrics Player
  - Local Storage User authentication.
- Home Page
  - Home Sidebar
  - Create Playlist
- Sign In page
- Sign Up page
- Playlist page
- Music Player

3.1.1 Landing Page :

Landing page of the website has quite a few features, It has a nice sidebar which cool slow animations. In the center there is a lyrics player which has a default song playing in the background. In sidebar there are different links to go to another pages like home and playlists page.

3.1.2 Lyrics Player

The lyrics player is a module of the landing page, when your website is loaded completely, a beautiful song start playing in the background and it's lyrics start writing on the screen.

3.1.3 Login Page

A user can login to their account if they have one, else there is a link on the login page to redirect them to sign up page. Sign in page has basic user validations using Venila Javascript. UI of the page is made using HTML ,CSS ,Bootstrap & Javascript.

There are Validation for users, if user has already logged in then his details will be saved in local storage of the browser and on his/her next visit of the website, it will take user's details directly form local storage.

3.1.4 Sign Up page

When a user want’s to create a new account he can do it here, for better user experience. Creating own account helps in keeping their playlist and creating and removing playlists. Sign up form is made using Jquery Validation. The page is made with the front end technologies like HTML,CSS,Bootstrap & Javascript.

3.1.5 Home page of the website :

Now, for the web-app home page is the most important part. So I have used all the front-end technologies ,to create it. I made personal animations, used fade-in and out effects. The home page has some different categories of the musics. User can play any song, of course it’s just front end UI, so there will not be any song playing. On the footer of the page there is a music player layout. There is a sidebar, on right side of the website. Where all the playlist and website will be listed.

3.1.6 Create New Playlist module

There is a option in sidebar of the homepage for creating new customisable playlist. When You click on that, it will open a dialog box with a form, this form can be used to create a new playlist and user can have their different collection. There are some javascript validation in that form, like you cannot create a playlist without name, also there is one more option to give a little description of the playlist which can be used to make user experience better. When you click on “Create playlist” button, it will add a new playlist in the list.

3.1.7 Music Player

There is a music player in the footer of the home page, it is responsible for all the devices, when the website will have a database we can play different songs and this music player can be used to control the musics.

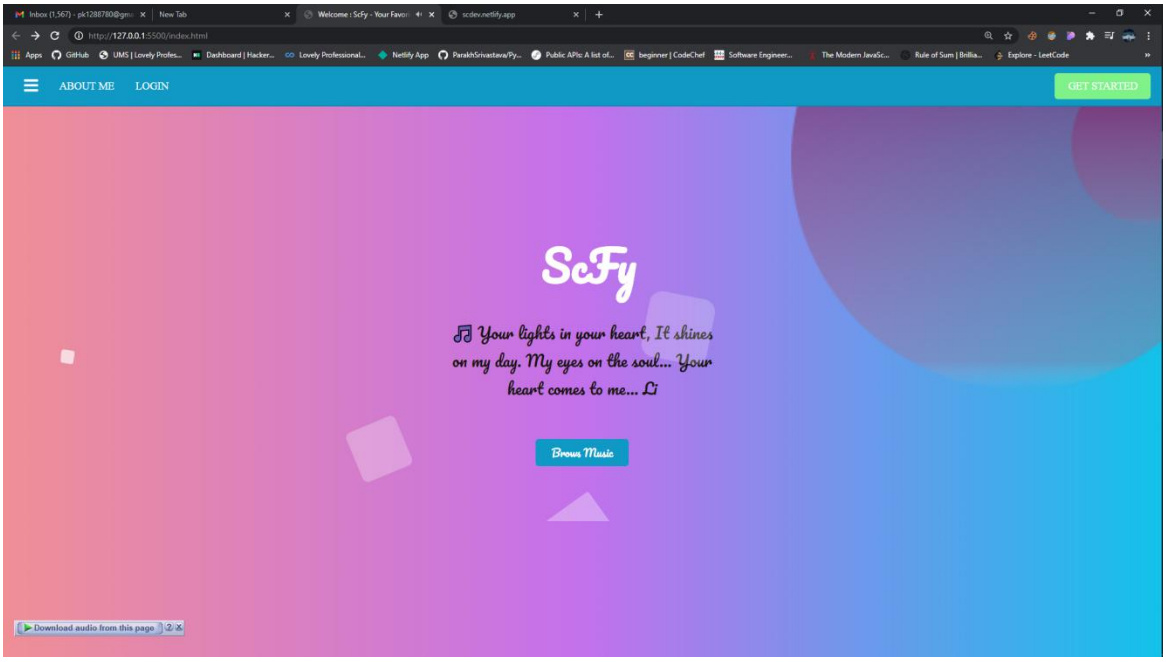
3.1.8 Liked Songs (This is a layout for the Individual playlist)

I have created one layout for the individual playlist. This website can be used to show the content of all the playlist , data will be coming from database. I used HTML,CSS & Javascript to create this layout.

CHAPTER 4

Screen-shots & with coding

4.0 Opening the website first time :

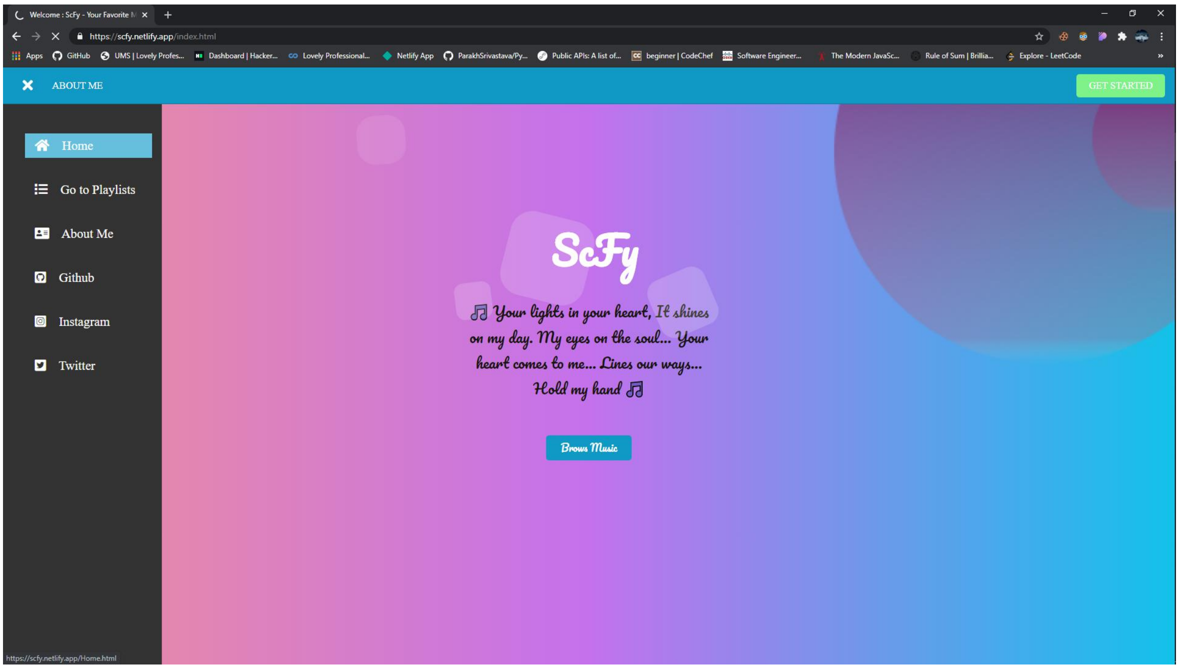


http://127.0.0.1:5500/index.html
ABOUT ME
LOGIN
GET STARTED
ScFy
Brows Music
Download audio from this page

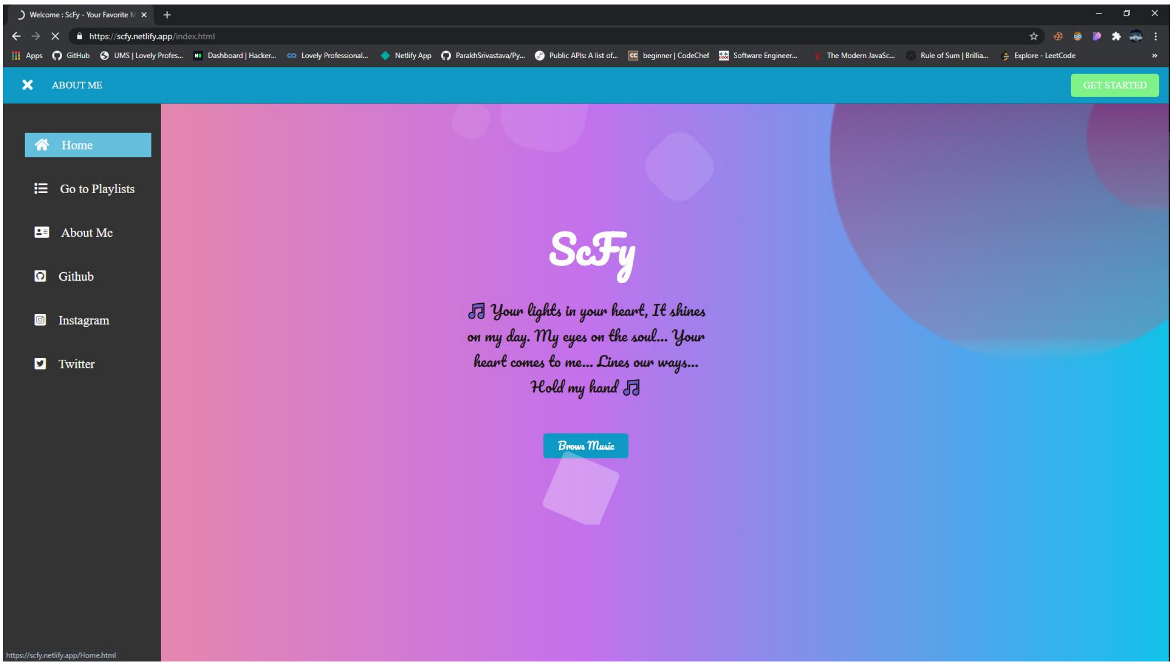
♫ Your lights in your heart, It shines on my day. My eyes on the soul... Your heart comes to me... Li

(Landing Page of the website)

4.2 Clicking on humburger Menu in the right



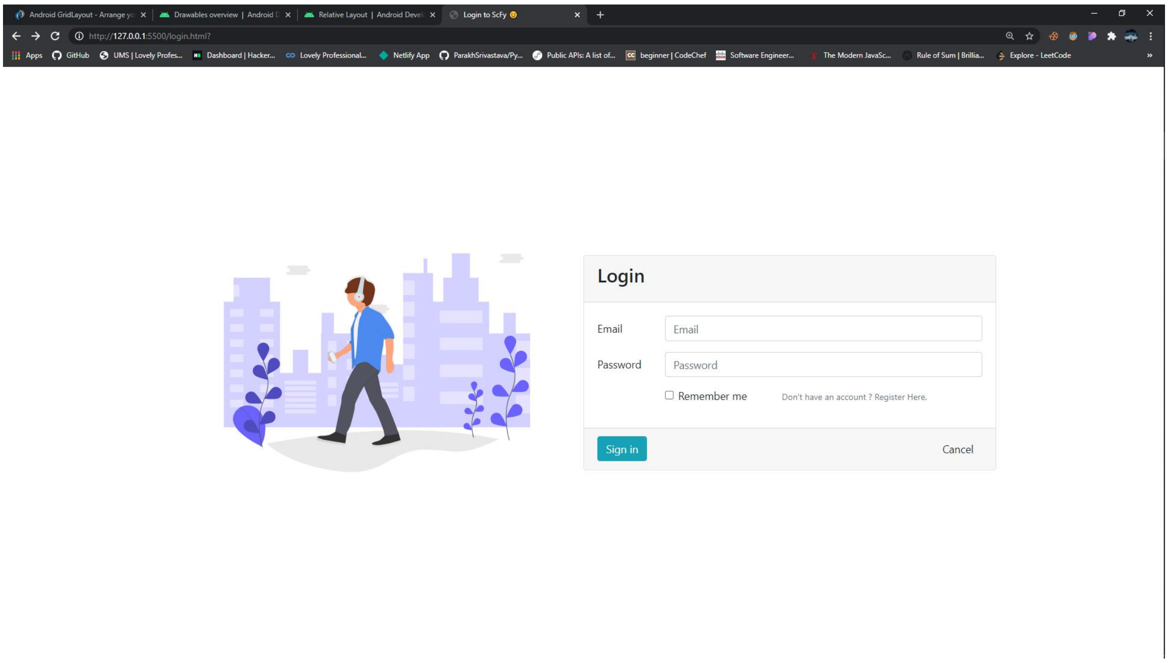
♫ Your lights in your heart, It shines on my day. My eyes on the soul... Your heart comes to me... Lines our ways... Hold my hand ♫



♫ Your lights in your heart, It shines on my day. My eyes on the soul... Your heart comes to me... Lines our ways... Hold my hand ♫

(Song playing in the background, with lyrics)

4.3 Sign In Page (If you don't have an account, click on 'register here')



Login

Email: Email

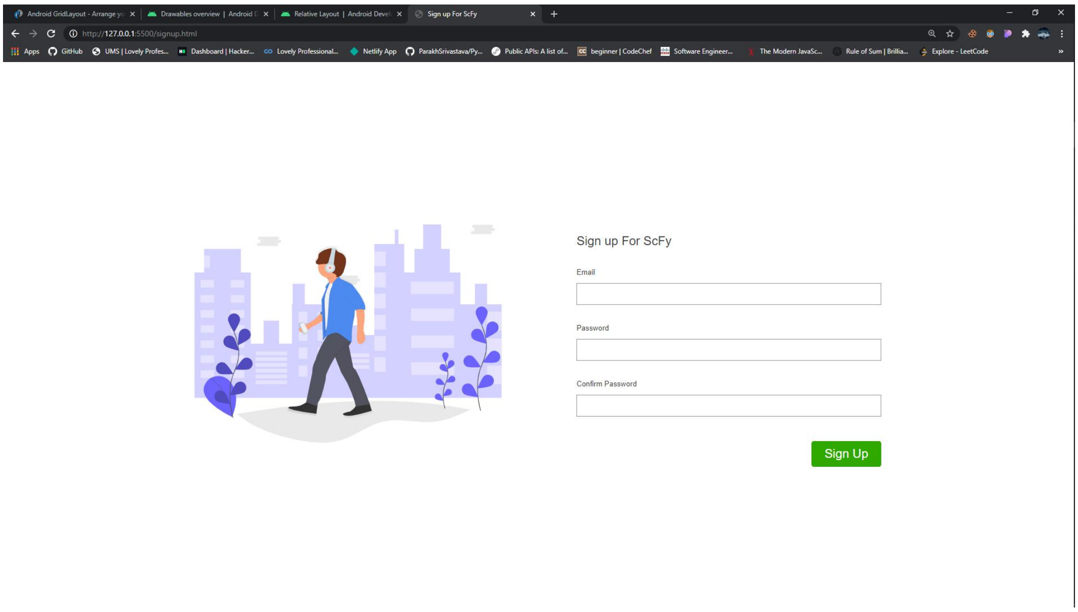
Password: Password

☐ Remember me

Don't have an account ? Register Here.

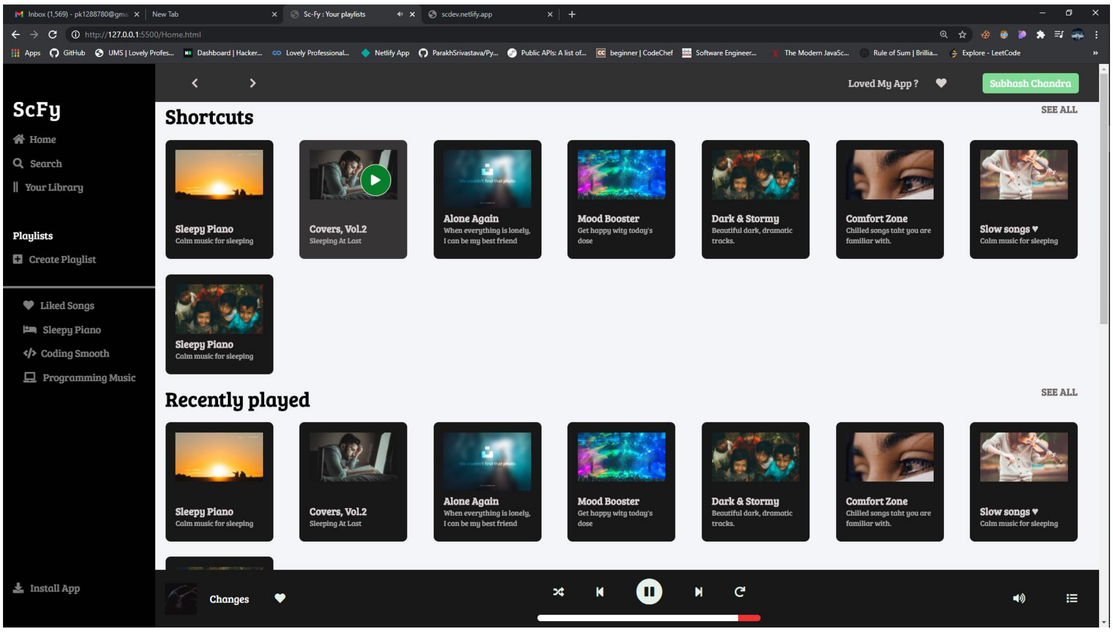
(Sign In to the website)

4.2 Sign Up page : (Create a new account)

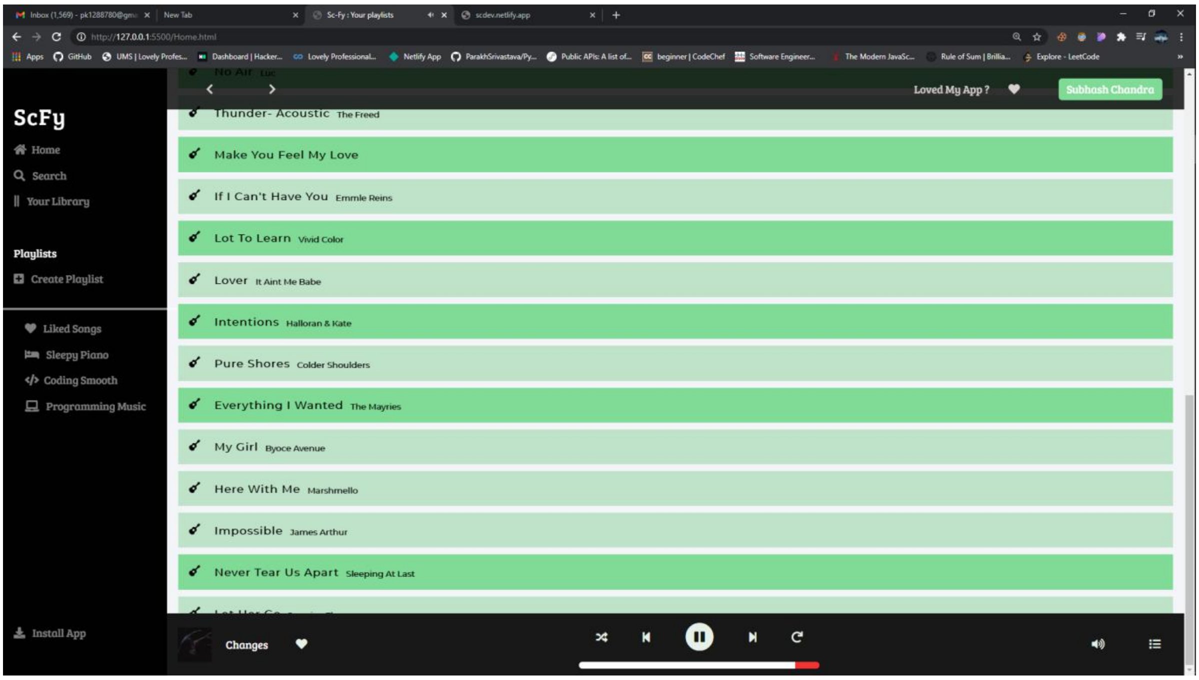


(Creating new Account, if user don’t have one)

4.3 Clicking on the Home (In sidebar)



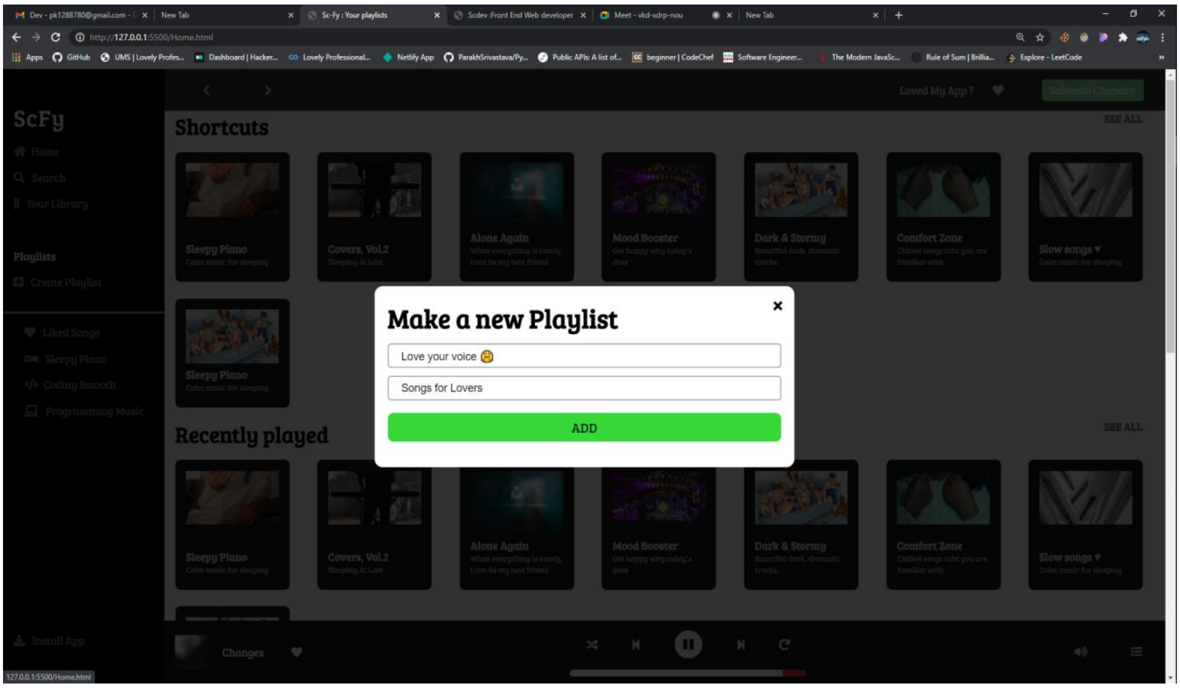
(Those music cards have hover animations and click animations)



Thunder- Acoustic	The Freed
Make You Feel My Love	
If I Can't Have You	Emmle Reins
Lot To Learn	Vivid Color
Lover	It Aint Me Babe
Intentions	Halloran & Kate
Pure Shores	Colder Shoulders
Everything I Wanted	The Mayries
My Girl	Byoce Avenue
Here With Me	Marshmello
Impossible	James Arthur
Never Tear Us Apart	Sleeping At Last

(Music Lists top 20)

4.4 Clicking on Create new Playlist

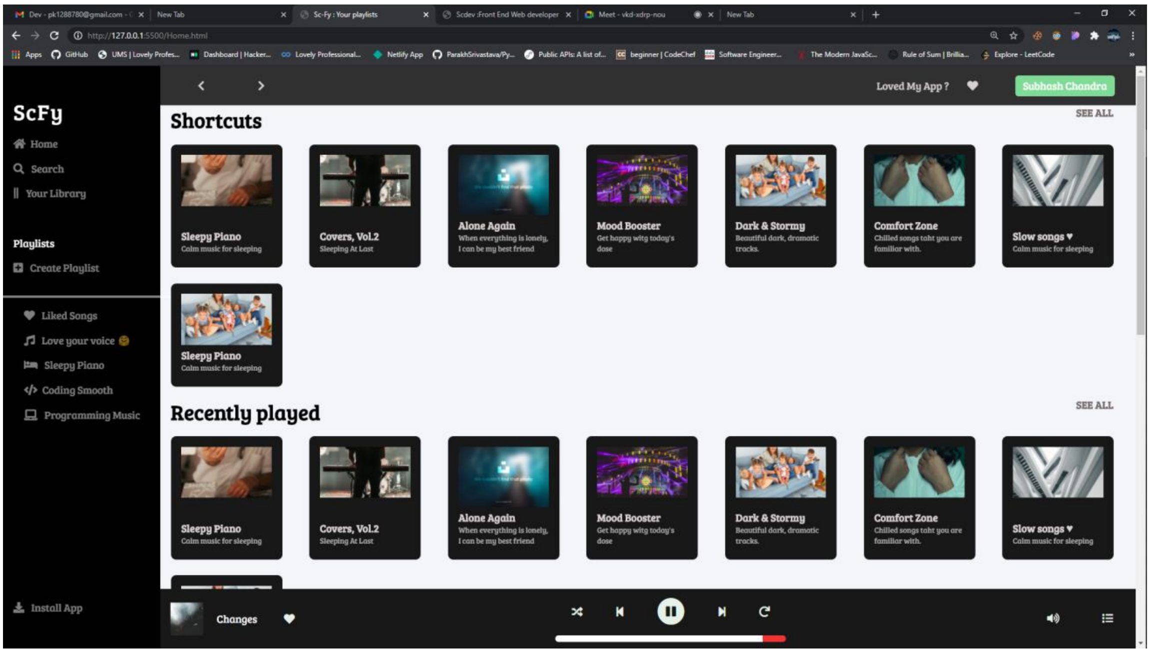


Make a new Playlist

Love your voice 😋

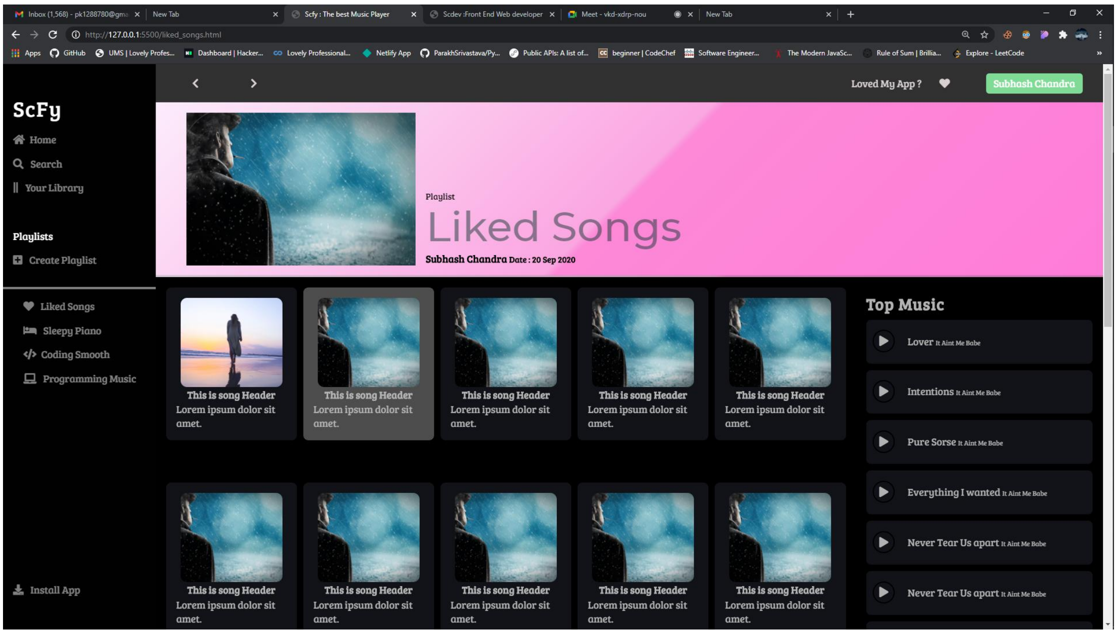
Songs for Lovers

(Creating new playlist)



(On the left side there is a new playlist is created with a music Icon)

4.5 Click on a particular Playlist


http://127.0.0.1:5500/liked_songs.html
ScFy
Home
Search
Your Library
Playlists
Create Playlist
Liked Songs
Sleepy Piano
Coding Smooth
Programming Music
Install App
Loved My App ?
Subhash Chandra
Playlist
Liked Songs
Subhash Chandra Date : 20 Sep 2020
This is song Header
Lorem ipsum dolor sit amet.
Top Music
Lover It Aint Me Babe
Intentions It Aint Me Babe
Pure Sorse It Aint Me Babe
Everything I wanted It Aint Me Babe
Never Tear Us apart It Aint Me Babe
Never Tear Us apart It Aint Me Babe

CHAPTER 5

TEST CASES & VALIDATIONS

5.1 Test Scenarios for the Sign-up page

#1) Verify the messages for each mandatory field.

#2) Verify if the user cannot proceed without filling all the mandatory fields.

#3) Verify the age of the user when the DOB is selected.

#4) Verify if the numbers and special characters are not allowed in the First and Last name.

#5) Verify if a user can sign-up successfully with all the mandatory details.

#6) Verify if a user can log in with the valid details.

#7) Verify if the Password and Confirm Password fields are accepting similar strings only.

#8) Verify that the alert message for all mandatory fields.

#9) Verify if duplicate email address will not get assigned.

5.2 Test Scenarios for the Sign-in page

#1) Verify the messages for each mandatory field.

#2) Verify if the user cannot proceed without filling all the mandatory fields.

#3) Verify if a user can sign-in successfully with all the mandatory details.

#4) Check if email Id is valid or not.

CHAPTER 6

TEST CASES

6.1 User Login	**Results**
1. Empty string in email	Failed to log in.
2. Email without @ & .com	Failed to login.
3. Email with @ & .com in the end	Test case passed.

6.2 Sign Up	**Results**
1. Empty string in email	Failed to log in.
2. Email without @ & .com	Failed to login.
3.Empty form Field	Failed
4. All lowercase letters in password	Failed
5. Password without special characters	Failed
6 . Email with @ & .com in the end	Test case passed.
7. Different string in password & confirm password	Failed

CHAPTER 7

Future Scope of the Project

6.1 What else can be added

I designed and coded pretty much everything about front end design, still improvements are always possible. It can be used as base layout design for a music app website. We can improve it using new technologies coming out everyday. I decided to make it with HTML, CSS & Java-script because that is the base of each and every website. One can make this website more accessible using new front-end frame work like React or Angular Js. These design layouts can be used anywhere as the requirements arises.

6.2 Back end

A website is incomplete without back end, by saying that I mean we need a server and database to make a website complete. This web-app is ready to use in real world, once database and server is added.

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GitHub link and video presentation link

9.1 Github Link :

SyFy : The Music Playlist App

The website has been deployed on netlify, here is the link

https://scfy.netlify.app/

9.2 Video Presentation

Youtube project presentation