SMART MUSIC PLAYER

A Project Report

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

Bachelor of Technology (Computer Science)

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ABSTRACT

A huge collection of songs, the ability to create playlists based on a persons' interest, the user will get a list of recommended songs on the basis of his/her preference of any genre/language/artist, the search bar where the user can search for any song on the basis of song name, artist, release year and album and, the option to download any song as per users' choice are some of the features provided by the system. An admin may insert new songs, remove already uploaded songs and view the songs. The user can update his/her profile and maintain playlists of their favorite songs. The smart music player will provide the user full access to a limitless collection of songs in English, Hindi, Spanish and Punjabi languages.

ACKNOWLEDGEMENT

The satisfaction that accompanies that the successful completion of any task would be incomplete without the mention of people whose ceaseless cooperation made it possible, whose constant guidance and encouragement crown all efforts with success.

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TABLE OF CONTENTS

S.No.	<u>Title</u>	Page No.
1.	Objective	5
2.	Requirement Analysis(SRS)	5
2.1	Hardware Requirements	5
2.2	Software Requirements	6
2.3	Feasibility Study	6
2.4	Product Functions	6-7
2.5	Use-case Diagrams	8
3.	System Design(SDS)	9
3.1	ER Diagram	9
3.2	Database Design	9-12
3.3	Activity Diagram	14
3.4	Sequence Diagram	15
4.	Coding	16-24
5.	Testing	25-26
6.	User Interfaces	27-29
7.	References	30

OBJECTIVE

The objective of the SMART MUSIC PLAYER is to present a better listening experience to the user where shuffling songs is no longer random but will favor those songs the user is less likely to skip and more likely to listen through to the end. The aim is to provide organized music library and recommendations to the user. It will provide users songs which they may like, based on the songs that they previously listened, liked /disliked or on the basis of their preferred language, artists or genre. It would be beneficial for the user as they may find songs that they may like without consuming much time. It can also play music from local music library.

REQUIREMENT ANALYSIS (SRS)

Requirement Specification:-

- H/w Requirements:-
 - > Input device is needed for user to interact with system.
 - > Software needs a display device to interact with user.
 - Music player needs playback device for sound output.
 - ➤ User needs a mobile phone for OTP verification.
 - > Internet connection is needed to run the application.

• S/w Requirements:-

> OS: Windows, Linux, Mac OS

➤ Development Tools:

• Backend:- Java, JSP, derby database

• Frontend:- HTML, CSS, Javascript

Feasibility Study:-

After doing the project SMART MUSIC PLAYER, study and analyzing all the existing or required functionalities of the system, the next task is to do the feasibility study for the project. All the projects are feasible- given unlimited resources and infinite time.

Feasibility study includes consideration of all the possible ways to provide a solution to the given problem. The proposed solution should satisfy all the user requirements and should be flexible enough so that future changes can be easily done based on the future upcoming requirements.

- **Product** The project requires a web application to be developed that will allow users to listen online music and get recommendations accordingly.
- **Technical Feasibility-** The web application will be developed using JAVA,JSP, Javascript, HTML,CSS and Derby.
- **Economic Feasibility-** The application can be developed within budget.

Product Functions:-

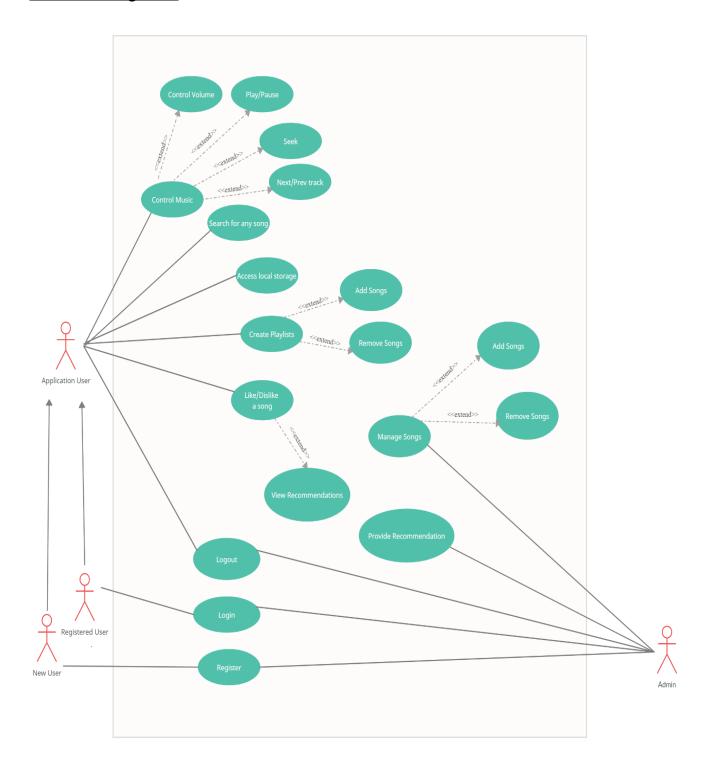
Using this application, user can play tracks available in offline/online library. While playing music user can get a list of suggested tracks which are most closely related with the present track in terms of their metadata tags like language, genre, artist, like/dislike etc.

User can perform following actions:

- Create profile
- Login/ logout/change password
- profile updation

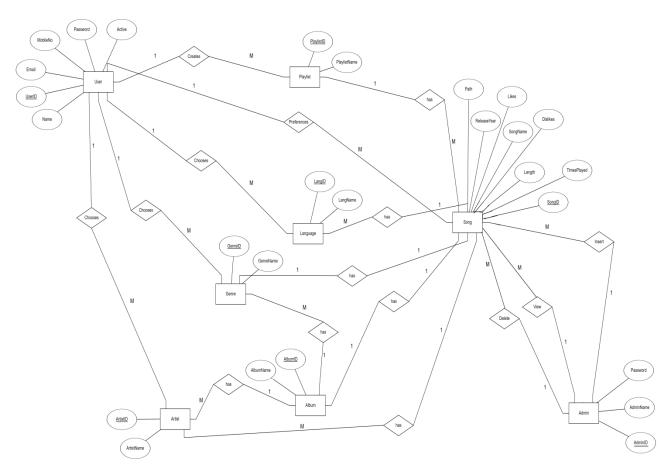
- play/pause/stop/like/dislike/shuffle/previous/next/mute/history/song information, control volume/download song
- add tracks/ remove tracks from playlist
- search songs (by song name, artist, album, genre, year)
- about music player
- get recommendation
- OTP generation for verification/authentication of users if user forgets his password
- create/update/delete/view playlist
- view favorite songs

<u>Use-case Diagram:-</u>



SYSTEM DESIGN (SDS)

ER Diagram:-



Database Design:-

Admin	
Fields	Datatype
AdminID (primary key)	Varchar (100)
Name	Varchar (100)
Password	Varchar (100)

UserData	
Fields Datatype	
UID (primary key)	Varchar (100)
UName	Varchar (100)
MobileNo	Varchar (10)

Email	Varchar (100)
Password	Varchar (100)
Active	Boolean

SongData		
Fields	Datatype	
SongID (primary key)	Int (10)	
Name	Varchar (100)	
Path	Varchar (100)	
ReleaseYear	Year (4)	
Length	Int (3)	
Likes	Int (10)	
Dislikes	Int (10)	
TimesPlayed	Int (10)	

Artist	
Fields	Datatype
ArtistID (primary key)	Int (10)
ArtistName	Varchar (100)

Genre	
Fields	Datatype
GenreID (primary key)	Int (10)
GenreName	Varchar (100)

Language	
Fields	Datatype
LangID (primary key)	Int (10)
LangName	Varchar (100)

Album	
Fields	Datatype
AlbumID (primary key)	Int (10)
AlbumName	Varchar (100)

SongArtist	
Fields	Datatype
SongID (foreign key references from	Int (10)
songdata)	

ArtistID (foreign key references from artist)	Int (10)
Primary Key(SongID, ArtistID)	

SongGenre		
Fields	Datatype	
SongID (foreign key references from	Int (10)	
songdata)		
GenreID (foreign key references from	Int (10)	
genre)		
Primary Key(SongID,GenreID)		

SongLanguage	
Fields	Datatype
SongID (foreign key references from	Int (10)
songdata)	
LangID (foreign key references from	Int (10)
language)	
Primary Key(SongID, LangID)	

SongAlbum	
Fields	Datatype
SongID (foreign key references from	Int (10)
songdata)	
AlbumID (foreign key references from	Int (10)
album)	
Primary Key(SongID,AlbumID)	

AlbumArtist	
Fields	Datatype
AlbumID (foreign key references from album)	Int (10)
ArtistID (foreign key references from artist)	Int (10)
Primary Key(AlbumID, ArtistID)	

AlbumGenre	
Fields	Datatype
AlbumID (foreign key references from album)	Int (10)
GenreID (foreign key references from genre)	Int (10)
Primary Key(AlbumID,GenreID)	

UserSong	
Fields	Datatype
UID (foreign key references from userdata)	Varchar (100)
SongID (foreign key references from	Int (10)
songdata)	
Likes	Int (10)
Dislikes	Int (10)
TimesPlayed	Int (10)
Primary Key(UID, SongID)	

UserArtist	
Fields	Datatype
UID (foreign key references from userdata)	Varchar (100)
ArtistID (foreign key references from artist) Int (10)	
Primary Key(UID, ArtistID)	

UserGenre	
Fields	Datatype
UID (foreign key references from userdata)	Varchar (100)
GenreID (foreign key references from	Int (10)
genre)	
Primary Key(UID, GenreID)	

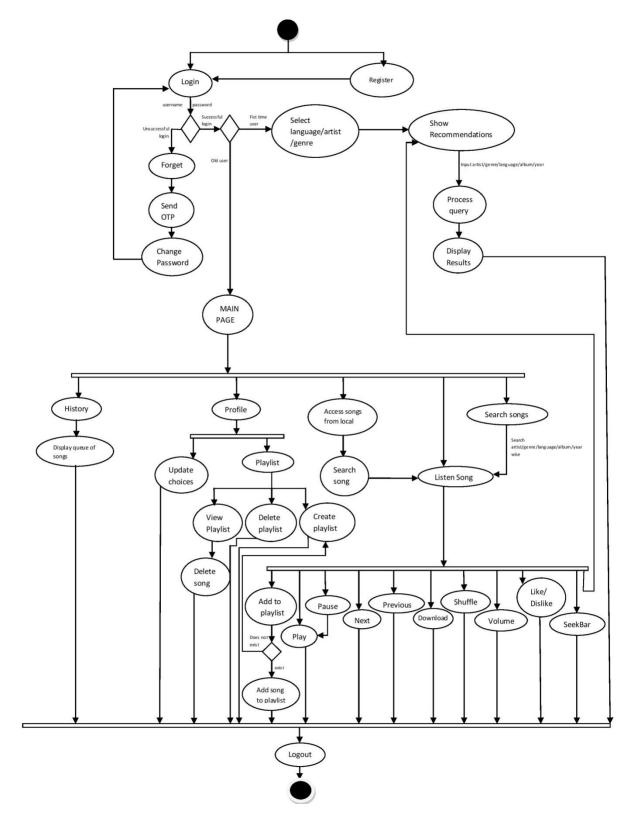
UserLang	
Fields	Datatype
UID (foreign key references from userdata)	Varchar (100)
LangID (foreign key references from Int (10)	
language)	
Primary Key(UID, LangID)	

PlaylistUser Playlist User	
Fields	Datatype
PlaylistID (primary key)	Int (10)
UID (foreign key references from userdata)	Varchar (100)
PlaylistName	Varchar (100)

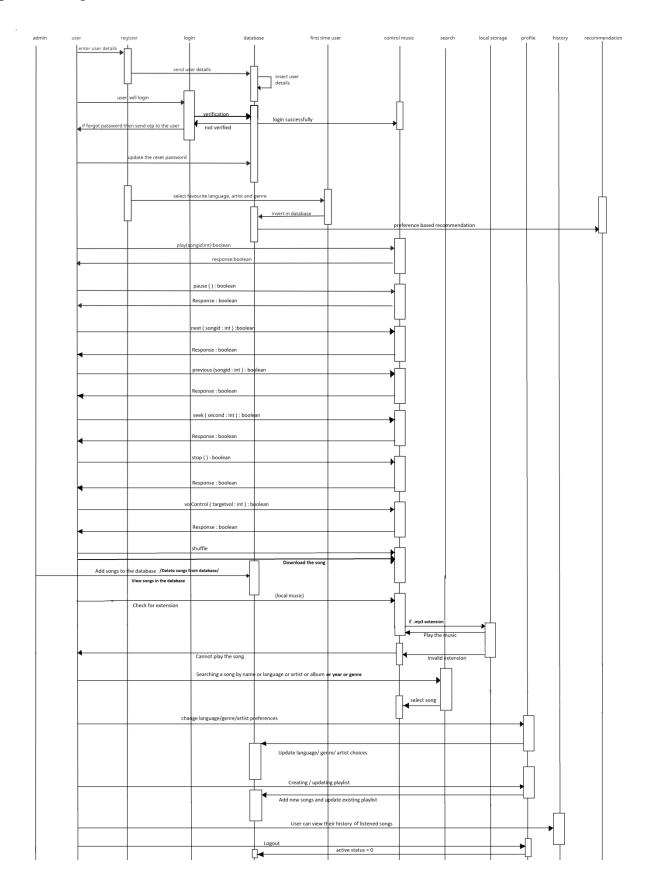
PlaylistSong

Fields	Datatype
PlaylistID (foreign key references from	Int (10)
playlistuser)	
SongID(foreign key references from Int (100)	
songdata)	
Primary Key(PlaylistID, SongID)	

Activity Diagram:-



Sequence Diagram:-



Coding:-

```
SMP - NetBeans IDE 8.0.1
                                                                                                                                                                                                             X
                                                                                                                                                                                         Q Search (Ctrl+I)
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
                                                                                      4 1 - 0
<%@page import="com.sun.xml.ws.util.StringUtils"%>
          <%@page import="java.sql.*,java.util.*,Server.SongPathFind,Server.SearchSong"%>
<!DOCTYPE html>
    4 F <html lang="en">
    <meta charset="UTF-8">
                <meta name="viewport" content="width=device-width, initial-scale=1.0">
                <title>Smart Music Player</title>
               <!-- it is connected to two <u>stylesheets</u> -->
<!-- it is connected to two <u>stylesheets</u> -->
<!network rel="stylesheet" type="text/css" href="Stylesheet_main.css"><!-- this is the main <u>stylesheet</u> -->
<!-- desktop first approach is used for the same. -->
<!network rel="stylesheet" type="text/css" href="primary page responsive.css"><!-- this is the style sheet with all the media queries -->
    11
12
13
14
15
16
17
18
19
20
21
                 <!-- this script is just for font awesome fonts -->
<script src="https://kit.fontawesome.com/803f4c4d8d.js" crossorigin="anonymous"></script>
         </head>
                Connection conn;
                Statement stmt;
ResultSet rs,rs1,rs2,rs3,rs4,rs5;
                String album, sname, songpath="songsdatabase/Point sid=1,i=1;
ArrayList<String> l=new ArrayList<String>();
                                                            sdatabase/Pop/Dilliwaali Girlfriend.mp3".songname="Dilliwaali Girlfriend".albumname="Yeh Jawaani Hai Deewani".s;
    22
23
    SongPathFind sp=new SongPathFind();
    28
               String uid=(String)session.getAttribute("uid");
    29
30
31
                int userid=Integer.parseInt(uid);
```

```
ree History 👺 📴 - 🖩 - 🍳 🕏 ኞ 😤 📮 🔗 😓 열 열 🧕 🗉
 $\forall \left
             function handleClick(myRadio) {
                var path=wpkadio.value.split(', ');
document.getElementById("soundi").setAttribute('src',path[0]);
document.getElementById("albm").innerHTML=path[1];
document.getElementById("snn").innerHTML=path[2];
var img="Final pictures/";
                     img=img.concat(path[1]);
                     img img.concat(".jpg");
document.getElementById("simg").setAttribute('src',img);
    </script>
        <div class="website-name">
                     <h1>
                      <u>SMP</u> </h1>
                      <h4>
                           Online Music Player
                      </h4>
                  </div>
             <div class="favs">
```

```
if(request.getParameter("btn_sub")!=null)
                   =request.getParameter("lst");
          String query="Select sid from songdata WHERE sname='"+sname+":";
Class.forName("org.apache.derby.jdbc.ClientDriver");
          Class.forName("org.apache.derby.jdbc.ClientDriver");
Connection conn=DriverManager.getConnection("jdbc:derby://localhost:1527/smp", "smp", "smp");
           stmt = conn.createStatement();
ResultSet resultSet=stmt.executeQuery(query);
          if(resultSet.next())
sid=resultSet.getInt(1);
           l=sp.songpathfinder(sid);
          songname=1.get(0);
songpath=1.get(1);
 albumname=1.get(2);
}} catch (Exception e) {
         e.printStackTrace();
   </form>
    </div>
- <h1><%=sname%></h1>
<h1><%=sid%></h1><h1><%=songpath%></h1>
<h1><%=albumname%></h1>-->
     <div class="profile-picture">
           <img src="pictures/profile_picture.svg">
          <div>
                <h5><i>Hello <%=session.getAttribute("uname")%></i> </h5>
```

```
</div>
       </div>
   </nav>
       <aside class="aside section-1">
           <!-- this is for the carouse
<div class="outer-carousel">
               <div class="carousel">
                       these are the 3 images in the carousel -->
                   </label>
                     <label>
                   <input type="radio" style="opacity:0;" name="chk_song" id="chksong" class="radio" value="songsdatabase/Sad/Imaginame Sin Ti.mp3; Déjà Vu; Im</pre>
                   <img src="Final pictures/Déjà Vu.jpg">
</label>
                   <label>
                  <input type="radio" style="opacity:0;" name="chk_song" id="chksong" class="radio" value="songsdatabase/Rap/Mercy.mp3; O.N.E(Original Never E
<img src="Final pictures/O.N.E(Original Never Ends).jpg">
                   </label>
           </div>
           <!-- this is the latest release section -->
<div class="latest-release">
               <h1 style="margin-bottom: 12px;">
Latest Release
               </h1>
               <div class="latest-release-content">
<
```

```
<div class="latest-release-content">
    <div class="card">
                <label>
                 <input type="radio" name="chk_song" id="chksong" class="radio" value="songsdatabase/Fop/Aal Izz Well.mp3; 3 idiots; Aal Izz Well" onclick='</pre>
                   <div>
                      <img src="Final pictures/3 idiots.jpg">
                  </div>
                </label>
                  <div class="song-description">
                      <h3>
                    Aal Izz Well
                      </h3>
                   </div>
                <div class="card">
                <label>
                 <input type="radio" name="chk_song" id="chksong" class="radio" value="songsdatabase/Romantic/Tum Hi Ho.mp3; Aashiqui 2; Tum Hi Ho" onclick=</pre>
                      <img src="Final pictures/Aashiqui 2.jpg">
                   </div>
                   <div class="song-description">
<
```

```
<h3>
            Tum Hi Ho
        </h3>
    </div>
</div>
<div class="card">
 <input type="radio" name="chk_song" id="chksong" class="radio" value="songsdatabase/Pop/Genda Phool.mp3; Genda Phool; Genda Phool" onclick
        <img src="Final pictures/Genda Phool.jpg">
    </div>
    <div class="latest-release-content play-button" style="top:-105px;">
           <i class="fas fa-play" style="width:100%; height:100%; display:inline-block;"></i>
 </label>
   Genda Phool
    </div>
</div>
<div class="card">
 <input type="radio" name="chk_song" id="chksong" class="radio" value="songsdatabase/Fop/Zumba.mp3; Good Newwz; Zumba" onclick="handleClick(
      <img src="Final pictures/Good Newwz.jpg">
  </div>

<div class="latest-release-content play-button" style="top:-105px;">

<i class="fas fa-play" style="width:100%; height:100%; display:inline-block;"></i>
```

```
<i class="fas fa-play" style="width:100%; height:100%; display:inline-block;"></i>
                  </div>
                  </label>
                    <div class="song-description">
                       <h3>
                       Zumba
</h3>
                     </div>
                 </div>
                 <div class="card">
                  <input type="radio" name="chk_song" id="chksong" class="radio" value="songsdatabase/Romantic/Katiya Karoon.mp3; Rockstar; Katiya Karoon"</pre>
                        <img src="Final pictures/Rockstar.jpg">
                    </div>
                    </div>
                 </label>
                    <div class="song-description">
                           Katiya Karoon
                       </h3>
                     </div>
                 </div>
                 <div class="card">
                  <label>
                            ="radio" name="chk_song" id="chksong" class="radio" value="songsdatabase/Rock/Parinda.mp3; Saina; Parinda" onclick="handleClick(
                    <div>
                       <img src="Final pictures/Saina.jpg">
<
```

```
<img src="Final pictures/Saina.jpg">
              </div>
              </dury
<div class="latest-release-content play-button" style="top:-105px;">
<i class="fas fa-play" style="width:100%; height:100%; display:inline-block;"></i></i>
          </label>
               <div class="song-description">
                  <h3>
                  Parinda
</h3>
              </div>
     </div>
</div
<!-- this is another themes portion, that electronic, party and road <a href="music-themes-2"></a> < the color class="music-themes-2">
    <span>Rock</span>
         </div>
     </div>
    <div class="outer-div">
     <div class="inner-div">
              <span>Pop</span>
         </div>
    </div>
```

```
<span>Romantic
                                             </div
                         </div>
</div>
<div class="language english">
                       <!-- latest english section --
<h1 class="language-heading">
                                               Latest English
                       <!-- contents of latest <pre>english -->
<div class="language-content">
                                                <div>
                                                    clabel class="option_item">
clabel class="option_item">
clabel class="option_item">
clabel class="option_item">
clapel class="option_item
                                                                      </div>
                                                           </label>
                                                                      Positions
                                                </div>
                                                <label class="option_item">
                                                    <input type="radio" name="chk_song" id="chksong" class="radio" value="songsdatabase/Rap/Fopstar.mp3; Never Stop Never Stopping; Popstar" on
<div class="option inner le"></div class="option inner le">
                                                                        <img src="Final pictures/Never Stop Never Stopping.jpg">
                                                </label>
                                                                          Popstar
                                                </div>
```

```
<div>
                                                               <label class="option_item">
<input type="radio" name="chk
<div class="option_inner lr">
                                                                                                                                              "chk song" id="chksong" class="radio" value="songsdatabase/Rap/Rockstar.mp3; Beerbongs Bentleys; Rockstar" onclic
                                                                           <img src="Final pictures/Beerbongs _ Bentleys.jpg">
                                                               </div>
                                                               </label>
                                                                         Rockstar
                                                               </div>
                                                               <div>
                                                               <label class="option_item">
                                                              <input type="radio" name="chk song" id="chksong" class="radio" value="songsdatabase/Rock/Whatever It takes.mp3; Evolve; Whatever It takes" c
<div class="option inner lr"></div class
                                                                          <img src="Final pictures/Evolve.jpg">
                                                               </div>
                                                              </label>
                                                                           Whatever It Takes
                                                               </div>
                                                               <div>
                                                               <label class="option_item">
                                                              <input type="radio" name="chk_song" id="chksong" class="radio" value="songsdatabase/Rock/Thunder.mp3; TOP20.cz 20181; Thunder" onclick="hand
<div class="option_inner lr">
                                                                          <img src="Final pictures/TOP20.cz 20181.jpg">
                                                               </label>
                                                               Thunder</div>
                                                               <div>
                                                               <label class="option_item">
                                                                                                                                                                ong" id="chksong" class="radio" value="songsdatabase/Romantic/Break up with your girlfriend, I'm bored.mp3; t
                                                               <input type="radio"
                                                               <div class="option inner lr">
<
```

```
<div class="option_inner lr">
            <img src="Final pictures/thank u, next.jpg">
        </label>
            Sheak up with your girlfriend, I'm bored
        </div>
    </div>
</div>
Latest Hindi
    <div class="language-content">
        <label class="option_item">
        <input type="radio" name="chk
<div class="option_inner lr">
                                    chk_song" id="chksong" class="radio" value="songsdatabase/Rock/Bhauji.mp3; Roohi; Bhauji" onclick="handleClick(thi
        <img src="Final pictures/Roohi.jpg">
</div>
        </label>
        Bhauji
        <label class="option_item">
        <input type="radio" name="chk_song" id="chksong" class="radio" value="songsdatabase/Romantic/Ilahi.mp3; Yeh Jawaani Hai Deewani; Ilahi" oncl
<div class="option_inner le">
            <img src="Final pictures/Yeh Jawaani Hai Deewani.jpg">
        </div>
</label>
```

```
</label>
                                                                                              Ilahi
                                                                                  </div
                                                                                  <label class="option_item">
                                                                                  cinput type="radio" name="chk_song" id="chksong" class="radio" value="songsdatabase/Pop/Give Me Some Sunshine.mp3; 3 idiots; Give Me Some Sunshine.mp3; G
                                                                                                 <img src="Final pictures/3 idiots.jpg">
                                                                                  </label>
                                                                                   </div>
                                                                                  <div>
                                                                                   <label class="option_item">
                                                                                  <input type="radio" name="chk
<div class="option_inner lr">
                                                                                                                                                                                 "chk_song" id="chksong" class="radio" value="songsdatabase/Sad/Jitni Dafa.mp3; Parmanu; Jitni Dafa" onclick="handle
                                                                                               <img src="Final pictures/Parmanu.jpg">
                                                                                   </div>
                                                                                   </label>
                                                                                  Jitni Dafa</div>
                                                                                  <div>
                                                                                   <label class="option_item">
                                                                                  <input type="radio" name="chk_song" id="chkson
<div class="option inner lr">
  <img src="Final pictures/Kabir Singh.jpg">
                                                                                                                                                                                  chk_song" id="chksong" class="radio" value="songsdatabase/Romantic/Kaise Hua.mp3; Kabir Singh; Kaise Hua" onclick=
                                                                                   </div>
                                                                                  </label>
                                                                                                Kaise Hua
                                                                                  </div>
<
```

```
<label class="option item">
       <input type="radio" name="chk_song" id="chksong" class="radio" value="songsdatabase/Romantic/Main Agar Kahoon.mp3; Om Shanti Om; Main Agar K</pre>div class="option_inner lr">
          <img src="Final pictures/Om Shanti Om.jpg">
       </label>
       Main Agar <u>Kahoon</u></div>
   </div>
</div>
<div class="language spanish">
   <h1 class="language-heading">
    Latest Spanish
   </h1>
   <div class="language-content">
       <div>
       <label class="option_item">
       <input type="radio" name="chk_song" id="chksong" class="radio" value="songsdatabase/Rock/En el muelle de San Blás.mp3; Sueños Líquidos; En el
<div class="option inner lr">
          <img src="Final pictures/Sueños Liquidos.ipg">
       </div>
</label>
       En el <u>muelle</u>
</div>
       <div>
```

```
<img src="Final pictures/Carte Blanche.jpg">
                    </div>
                     </label>
                        Taki Taki
                    </div>
                    <div>
                    <label class="option_item">
                    <input type="radio" name="chk
<div class="option_inner lr">
                                                chk_song" id="chksong" class="radio" value="songsdatabase/Rap/Muevelo.mp3; Bad Boys for Life - The Soundtrack; Mue
                         <img src="Final pictures/Bad Boys for Life The Soundtrack.jpg">
                     </div>
                    </label>
                         Muevelo
                    </div>
                    <label class="option item">
                    <input type="radio" name="chk_song" id="chksong" class="radio" value="songsdatabase/Pop/Nada.mp3; El Dorado; Nada" onclick="handleClick(this
<div class="option inner lr">
                        <img src="Final pictures/El Dorado.jpg">
                    </label>
                         Nada
                     </div>
                    <div>
                     <label class="option_item">
                                                      ong" id="chksong" class="radio" value="songsdatabase/Pop/Impossible.mp3; Vida; Impossible" onclick="handleCli
                    <input type="radio" name="chk s</pre>
                     <div class="option_inner lr">
                         <img src="Final pictures/Vida.jpg">
                    </div>
                    </label>
                         Impossible
<
```

```
^
                                                                     </div>
                                                                     <div>
                                                                      <label class="option_item">
                                                                     <input type="radio" name="chk_song" id="chksong" class="radio" value="songsdatabase/Rock/La Tortura.mp3; Fijación Oral, Vol. 1; La Tortura"
<div class="option_inner lr"></div class=
                                                                                 <img src="Final pictures/Fijación Oral, Vol. 1.jpg">
                                                                     </div>
</label>
                                                                     La <u>Tortura</u></div>
                                                       </div>
                                          </div>
<div class="language punjabi">
                                                      <h1 class="language-heading">
   Latest Punjabi
                                                       </h1>
                                                        <div class="language-content">
                                                                      <label class="option_item">
                                                                     <input type="radio" name="chk_song" id="chksong" class="radio" value="songsdatabase/Pop/Kya Baat Ay.mp3; Ky Baat Ay; Kya Baat Ay" onclick="b</pre><div class="option inner le">
                                                                                 <img src="Final pictures/Ky Baat Ay.jpg">
                                                                     </div>
                                                                     </label>
                                                                     Kya Baat Ay
</div>
                                                                     <div>
                                                                     <label class="option_item">
                                                                     <input type="radio" name="chk song" id="chksong" class="radio" value="songsdatabase/Fop/Lahore.mp3; Lahore; Lahore" onclick="handleClick(thi")</pre>
<
```

```
<input type="radio" name="chk_song" id="chksong" class="radio" value="songsdatabase/Pop/Lahore.mp3; Lahore; Lahore" onclick="handleClick(thi \( \) <div class="option_inner le">
                            <img src="Final pictures/Lahore.jpg">
                         </div>
                        </label>
                         Lahore
</div>
                        <div>
                         <label class="option_item">
                        <input type="radio" name="chk_song" id="chksong" class="radio" value="songsdatabase/Rock/Nikle Currant.mp3; Nikle Currant; Nikle Currant" on</pre>
                        <div class="option_inner lr">
                             <img src="Final pictures/Nikle current.jpg">
                        </div>
                            Nikle Currant
                        </div
                        <div>
                        <label class="option_item">
                        <input type="radio" name="chk
<div class="option_inner lr">
                                                     chk_song" id="chksong" class="radio" value="songsdatabase/Sad/Kaun Hoyega.mp3; Qismat; Kaun Hoyega" onclick="handl
                             <img src="Final pictures/Qismat.jpg">
                         </div>
                        </label>
                        Kaun Hoyega</div>
                        <label class="option item">
                        <input type="radio" name="chk_s
<div class="option_inner lr">
                                                           ong" id="chksong" class="radio" value="songsdatabase/Romantic/Soch.mp3; Soch; Soch" onclick="handleClick(this
                            <img src="Final pictures/Soch.jpg">
<
```

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</label>
                                       Soch</div>
                                       <div>
<label class="option_item">
                                        <input type="radio" name="chk song" id="chksong" class="radio" value="songsdatabase/Romantic/Yaar Mera Titliyan Warga.mp3; Titliyan Warga; Y</pre>
                                         <div class="option_inner lr">
                                                      <img src="Final pictures/Titliyan Warga.jpg">
                                        </div>
                                        </label>
                                                   Yaar Mera Titliyan Warga
<br/>
<br/
                                        </div>
                          </div>
             </div>
</aside>
<label for="more"><i class="fas fa-angle-double-left"></i>More</label>
<input type="checkbox" id="more">
<aside class="aside section-2">
           <div class="heading">
                          <h1>Recommended</h1>
                                       <a href="#queue-option-box">More<i class="fas fa-chevron-circle-down"></i></a>
                         </h4>
             </div>
            <div class="queue-options" id="queue-option-box">
                          <a href style="color:#007bff; font-weight:bolder;">Profile</a>
                          <hr>
                          <a href="pagel.html" style="color:red; font-weight:bolder;">Logout</a>
```

```
<div class="playlist-content">
    Class.forName("org.apache.derby.jdbc.ClientDriver");
    Connection conn=DriverManager.getConnection("jdbc:derby://localhost:1527/smp","smp","smp");
    stmt = conn.createStatement();
String query="select DISTINCT s
                                           sid, sname, spath from songdata where sid IN(((select songlang.sid from songlang INNER JOIN userlang ON songlang.lid
    rs=stmt.executeQuery(query);
    while (rs.next())
         l=sp.songpathfinder(rs.getInt(1));
album =l.get(2);
    <div class=playlist-item>
         </div>
              <div class="coverer">
<label>
              classer*/
cinput type="radio" name="chk song" class="radio" value="<==s.getString(3)*>; <== album*>; <==s.getString(2)*>" onclick="handleClick(t
              <ing src="Final pictures/<\= album\>.jpg">
</ir>

              </div>
              </div>
              </label>
               </div>
               <div>
```

```
| Coty |
```

```
div><i class="fas fa-random"></i></div>
<div><i class="fas fa-step-backerd"></i></div>
<div><i class="fas fa-step-backerd"></i></div>
<div><i class="fas fa-step-forward"></i></div>
<div><i class="fas fa-step-forward"></i></div>
<div><i class="fas fa-redo"></i></div>
</div>
</div>
</div>
</div>
</div>
</form method="get" action="">
<div id="playlist">
</div>
</div>

<pre
```

TESTING

PAGE	TEST DESCRIPTION
Home Page	The first page of our project which contains a brief about our player and
	also from there the user can either login or register.
Login Page	Username:- Mandatory to fill this field; if user has forgotten password or
	otherwise can successfully login by entering password.
Registration page	Username:- Mandatory to fill this field.
	Mobile:- Mandatory to fill this field with 10 digits; where the first digit
	should be in (6,9).
	Email:- Mandatory to fill this field; in the form xyz@abc.com
	Password:- Mandatory to fill this field with at least 8 characters which
	should have one upper and lower case character and any digit.
	Confirm Password:- Mandatory to fill this field; if the password does not
	match throw an error.
	If already registered then redirected to login page.
Preference Page	The user can select his/her favorite language, genre, artist given in the page
(for new users)	on the basis of which he/she will get a list of recommended songs on the
	player page. Initially, some of the options are already selected in case if the
	user does not select any option.
Forgot Password	Username:- Mandatory to fill this field.
Page	Email:- Mandatory to fill this field; in the form xyz@abc.com (example)
	Phone Number:- Mandatory to fill this field.
	If all the entries entered matches with the data in database then only
	redirection to OTP page will be done otherwise error will be displayed.
OTP Page	An OTP is send to the user's registered mobile number. If the OTP entered
	is correct, then only the user will be redirected to password recovery page.
Change Password	Username:- Mandatory to fill this field.
Page	New Password:- Mandatory to fill this field with at least 8 characters which
	should have one upper and lower case character and any digit.
	Re-enter Password: Mandatory to fill this field; if the password does not
M ' D1	match throw an error.
Music Player	This page is divided in several sections:
Page	a) favourite songs
	b) latest releases
	c)search bar (where user can search the song on the basis off:- song name, artist, album, genre, year, language)
	d)different genres (clicking on which user will be redirected to that
	particular page where selected genre songs will be displayed)
	e)latest english songs
	f) latest hindi songs
	g) latest spanish songs
	h)latest punjabi songs
	i)recommended songs
	j)more (user profile and logout)
	k)in the footer section, there are various components such as
	n/m the rester section, there are various components such as

	play,pause,previous,next,shuffle,seekbar,volume control.
	l)the user can also download the song
Admin Page	The admin can:
	a) insert
	b) delete
	c) view
	songs in the database.
Genre Page	The songs of various genres (romantic, rock, pop) present in the database
	are displayed dynamically. The user can play the desired song by clicking
	on any song image.
User Profile Page	The user can:
	a) update his preferences/details
	b) create/update/view/delete playlists
	c)logout
History Page	The user can see the list of songs which he/she had recently played.

USER INTERFACES

Introduction page





Registration page





Login page



Forgot password page

OTP confirmation page





Change Password page



Preference page







Music Player







Genere pages







Profile page





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