

Music player app

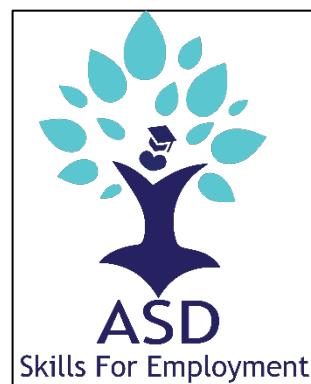
A Project Report

In the partial fulfillment for the award of the degree of

B.Tech

under

Academy of Skill Development



Submitted by

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Certificate from the Mentor

This is to certify that Kumar Abhinav has successfully completed the project titled Kumar Abhinav under my supervision during the period from February to May which is in partial fulfillment of requirements for the award of the B.Tech and submitted to Department IT of Netaji Subhash Engineering College.

Signature of the Mentor

Date:24may,2020



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Acknowledgement

I take this opportunity to express my deep gratitude and sincerest thanks to my project mentor, **Pallavi saha** for giving the most valuable suggestion, helpful guidance and encouragement in the execution of this project work.

I would like to give a special mention to my colleagues. Last but not the least I am grateful to all the faculty members of **Academy of Skill Development** for their support.



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Screenshots of code:

Home.dart

```
1 import 'package:cloud_firestore/cloud_firestore.dart';
2 import 'package:flutter/material.dart';
3 import 'package:music_player_app/screens/Songspage.dart';
4
5 class Home extends StatefulWidget {
6   @override
7   _HomeState createState() => _HomeState();
8 }
9
10 class _HomeState extends State<Home> {
11   List<DocumentSnapshot> _list;
12   @override
13   Widget build(BuildContext context) {
14     return StreamBuilder(
15       stream: FirebaseFirestore.instance
16         .collection('songs')
17         .orderBy('song_name')
18         .snapshots(),
19       builder: (context, AsyncSnapshot<QuerySnapshot> snapshot) {
20         if (!snapshot.hasData) {
21           return Center(
22             child: CircularProgressIndicator(),
23           );
24         } else {
25           _list = snapshot.data.docs;
26
27           return ListView.custom(
28             childrenDelegate: SliverChildBuilderDelegate(
29               (BuildContext context, int index) {
30                 return buildList(context, _list[index]);
31               },
32               childCount: _list.length,
33             );
34           }
35         },
36       );
37     }
38
39     Widget buildList(BuildContext context, DocumentSnapshot documentSnapshot) {
40       return InkWell(
41         onTap: () => Navigator.push(
42           context,
43           MaterialPageRoute(
44             builder: (context) => Songspage(
45               song_name: documentSnapshot.data()["song_name"],
46               artist_name: documentSnapshot.data()["artist_name"],
47               song_url: documentSnapshot.data()["song_url"],
48               image_url: documentSnapshot.data()["image_url"],
49             )),
50             child: Card(
51               child: Padding(
52                 padding: EdgeInsets.all(20.0),
53                 child: Text(
54                   documentSnapshot.data()["song_name"],
55                   style: TextStyle(fontSize: 20.0),
56                 ),
57               ),
58               elevation: 10.0,
59             ),
60           );
61     }
62 }
```



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Songspage.dart

```
1 import 'package:flutter/material.dart';
2 import 'package:music_player/music_player.dart';
3
4 class Songspage extends StatefulWidget {
5   String song_name, artist_name, song_url, image_url;
6
7   Songspage({this.song_name, this.artist_name, this.song_url, this.image_url});
8   @override
9   _SongspageState createState() => _SongspageState();
10 }
11
12 class _SongspageState extends State<Songspage> {
13   MusicPlayer musicPlayer;
14   bool isPlaying1 = false;
15
16   @override
17   void initState() {
18     super.initState();
19     initPlatformState();
20   }
21
22   // Initializing the Music Player and adding a single [PlaylistItem]
23   Future<void> initPlatformState() async {
24     musicPlayer = MusicPlayer();
25   }
26
27   @override
28   Widget build(BuildContext context) {
29     return Scaffold(
30       appBar: AppBar(
31         title: Text("Music Player App"),
32       ),
33       body: SingleChildScrollView(
34         scrollDirection: Axis.vertical,
35         child: Center(
36           child: Column(
37             children: <Widget>[
38               SizedBox(
39                 height: 30.0,
40               ),
41               Text(
42                 widget.song_name,
43                 style: TextStyle(
44                   fontSize: 25.0,
45                 ),
46               ),
47               SizedBox(
48                 height: 15.0,
49               ),
50               Text(
51                 widget.artist_name,
52                 style: TextStyle(
53                   fontSize: 15.0,
54                 ),
55               ),
56               Card(
57                 child: Image.network(widget.image_url, height: 350.0),
58                 elevation: 10.0,
59               ),
60               SizedBox(
61                 height: MediaQuery.of(context).size.width * 0.2,
62               ),
63             ],
64           ),
65         ),
66       ),
67     );
68   }
69 }
```



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```
56         Card(
57             child: Image.network(widget.image_url, height: 350.0),
58             elevation: 10.0,
59         ),
60         SizedBox(
61             height: MediaQuery.of(context).size.width * 0.2,
62         ),
63     Row(
64         mainAxisAlignment: MainAxisAlignment.center,
65         children: <Widget>[
66             SizedBox(
67                 width: 100.0,
68             ),
69             IconButton(
70                 icon: Icon(isplaying1 ? Icons.pause:Icons.play_arrow),
71                 iconSize: 60.0,
72                 color: isplaying1? Colors.blue:Colors.black,
73                 onPressed: (){
74                     if(isplaying1){
75                         musicPlayer.pause();
76
77                         setState(() {
78                             isplaying1=false;
79                         });
80                     }
81                     else{
82                         setState(() {
83                             isplaying1=true;
84                         });
85
86                         musicPlayer.play(MusicItem(
87                             trackName: widget.song_name==null?'':widget.song_name,
88                             albumName: '',
89                             artistName: widget.artist_name==null?'':widget.artist_name,
90                             url: widget.song_url==null?'':widget.song_url,
91                             coverUrl: widget.image_url==null?'':widget.image_url,
92                             duration: Duration(seconds: 255),
93                         ));
94                     }
95                 },
96             ),
97             SizedBox(
98                 width: 10.0,
99             ),
100            IconButton(
101                icon: Icon(
102                    Icons.stop,
103                ),
104                color: isplaying1?Colors.black:Colors.blue,
105                iconSize: 60.0,
106                onPressed: (){
107                    musicPlayer.stop();
108                    setState(() {
109                        isplaying1=false;
110                    });
111                }
112            ),
113
114            SizedBox(
115                width: 100.0,
116            ),
117            ],
118        ],
119        ],
120    )),
121    ),
122 );
123 }
124 }
```



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Upload.dart

```
1 import 'dart:io';
2
3 import 'package:cloud_firestore/cloud_firestore.dart';
4 import 'package:file_picker/file_picker.dart';
5 import 'package:firebase_admob/firebase_admob.dart';
6 import 'package:firebase_storage/firebase_storage.dart';
7 import 'package:flutter/material.dart';
8 import 'package:path/path.dart';
9 import 'package:music_player_app/main.dart';
10
11 class Upload extends StatefulWidget {
12   @override
13   _UploadState createState() => _UploadState();
14 }
15
16 class _UploadState extends State<Upload> {
17
18   static const MobileAdTargetingInfo targetingInfo = MobileAdTargetingInfo(
19     nonPersonalizedAds: true,
20   );
21
22   BannerAd _bannerAd1;
23
24   BannerAd createBannerAd() {
25     return BannerAd(
26       adUnitId: 'ca-app-pub-6665765954949461/6038232188',
27       size: AdSize.banner,
28     );
29   }
30
31
32   @override
33   void initState() {
34     FirebaseAdMob.instance
35       .initialize(appId: 'ca-app-pub-6665765954949461-8831916485');
36     _bannerAd1 = createBannerAd();
37     super.initState();
38
39     show_banner_ads1();
40   }
41
42
43   void show_banner_ads1() {
44     _bannerAd1
45       ..load()
46       ..show(
47         anchorOffset: 0.0,
48         anchorType: AnchorType.bottom,
49       );
50   }
51
52   TextEditingController songname = TextEditingController();
53   TextEditingController artistname = TextEditingController();
54
55   File image, song;
56   String imagepath, songpath;
57   StorageReference ref;
58   var image_down_url, song_down_url;
59   final firestoreinstance = Firestore.instance;
60
61   void selectimage() async {
62     image = await FilePicker.getFile();
63
64     setState(() {
65       image = image;
66       imagepath = basename(image.path);
67       uploadimagefile(image.readAsBytesSync(), imagepath);
68     });
69   }
70
71   Future<String> uploadimagefile(List<int> image, String imagepath) async {
72     ref = FirebaseStorage.instance.ref().child(imagepath);
73     StorageUploadTask uploadTask = ref.putData(image);
74
75     image_down_url = await (await uploadTask.onComplete).ref.getDownloadURL();
76   }
77
78   void selectsong() async {
79     song = await FilePicker.getFile();
80
81     setState(() {
82       song = song;
83       songpath = basename(song.path);
84       uploadsongfile(song.readAsBytesSync(), songpath);
85     });
86   }
87
88   Future<String> uploadsongfile(List<int> song, String songpath) async {
89     ref = FirebaseStorage.instance.ref().child(songpath);
90     StorageUploadTask uploadTask = ref.putData(song);
91
92     song_down_url = await (await uploadTask.onComplete).ref.getDownloadURL();
93   }
94
95   finalupload(context) {
96     if(songname.text!=='' && song_down_url!=null && image_down_url!=null){
97       print(songname.text);
98       print(artistname.text);
99     }
100 }
```



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```

50
51     setState(() {
52         song = song;
53         songpath = basename(song.path);
54         uploadSongfile(song.readAsBytesSync(), songpath);
55     });
56 }
57
58 Future<String> uploadSongfile(List<int> song, String songpath) async {
59     ref = FirebaseStorage.instance.ref().child(songpath);
60     StorageUploadTask uploadTask = ref.putData(song);
61
62     song_down_url = await (await uploadTask.onComplete).ref.getDownloadURL();
63 }
64
65 finalupload(context) {
66     if(songname.text!='' && song_down_url!=null && image_down_url!=null){
67         print(songname.text);
68         print(artistname.text);
69         print(song_down_url);
70         print(image_down_url.toString());
71     }
72
73     var data = {
74         "song_name": songname.text,
75         "artist_name": artistname.text,
76         "song_url": song_down_url.toString(),
77         "image_url": image_down_url.toString(),
78     };
79
80     firestoreinstance
81         .collection("songs")
82         .document()
83         .setData(data)
84         .whenComplete(() => showDialog(
85             context: context,
86             builder: (context) => _onTapButton(context,"Files Uploaded Successfully :"),
87         ));
88     }
89     else{
90         showDialog(
91             context: context,
92             builder: (context) => _onTapButton(context,"Please Enter All Details :"),
93         );
94     }
95 }
96
97 _onTapButton(BuildContext context,data) {
98     return AlertDialog(title: Text(data));
99 }
100
101 @override
102 Widget build(BuildContext context) {
103     return Center(
104         child: Column(
105             children: <Widget>[
106                 RaisedButton(
107                     onPressed: () => selectImage(),
108                     child: Text("Select Image"),
109                 ),
110                 RaisedButton(
111                     onPressed: () => selectSong(),
112                     child: Text("Select Song"),
113                 ),
114                 Padding(
115                     padding: EdgeInsets.fromLTRB(20.0, 10.0, 20.0, 10.0),
116                     child: TextField(
117                         controller: songname,
118                         decoration: InputDecoration(
119                             hintText: "Enter song name",
120                         ),
121                     ),
122                 ),
123                 Padding(
124                     padding: EdgeInsets.fromLTRB(20.0, 10.0, 20.0, 10.0),
125                     child: TextField(
126                         controller: artistname,
127                         decoration: InputDecoration(
128                             hintText: "Enter artist name",
129                         ),
130                     ),
131                 ),
132                 RaisedButton(
133                     onPressed: () => finalupload(context),
134                     child: Text("Upload"),
135                 ),
136             ],
137         );
138     );
139 }
140
141 }
142
143 }
144
145 }
146
147 }
148
149 }
150
151 }
152
153 }
154
155 }
156
157 }
158
159 }
160
161 }
162
163 }
164
165 }
166
167 }
168 }
169 }
170 }

```



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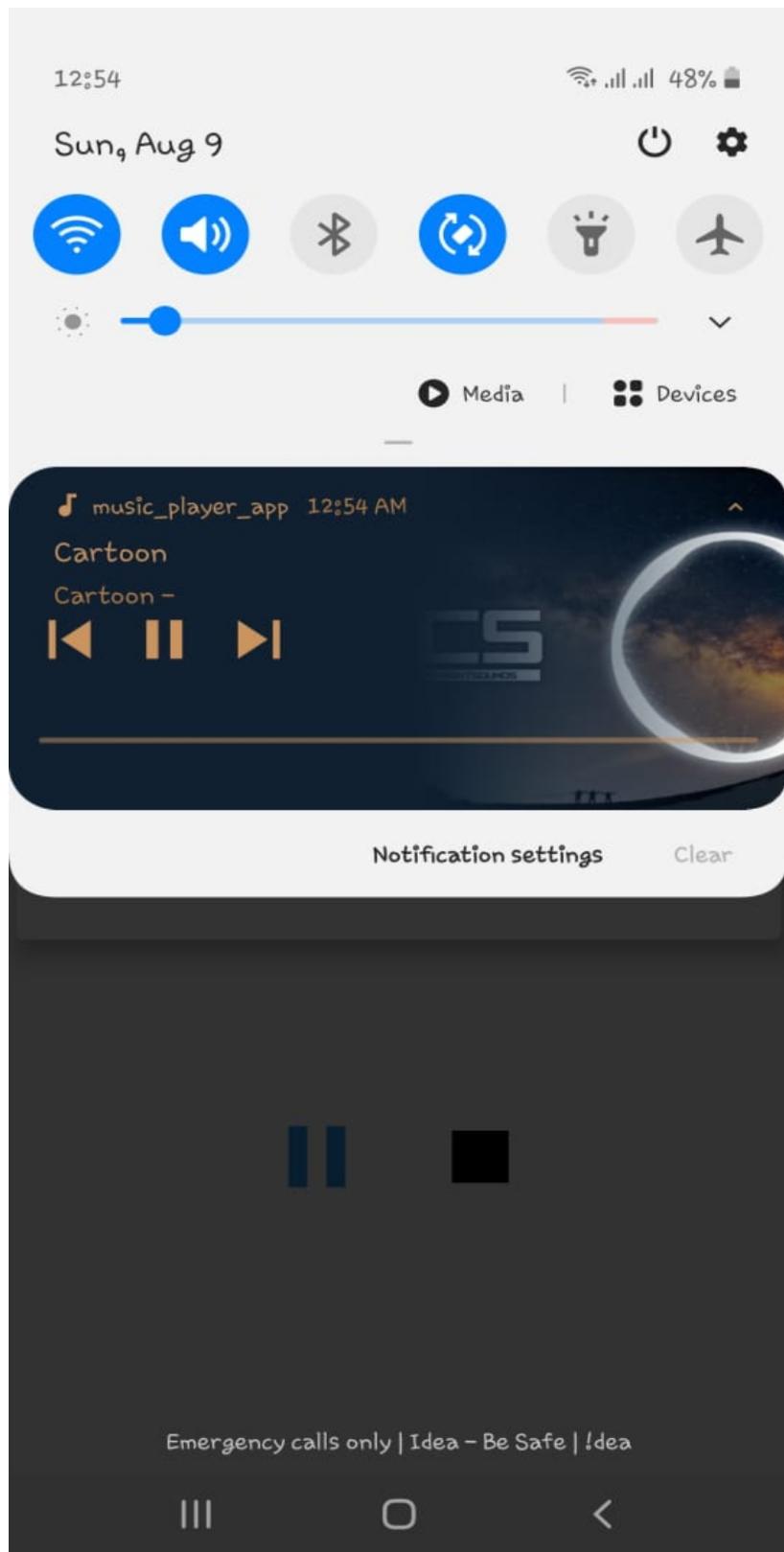
Main.dart

```
1 import 'package:firebase_admob/firebase_admob.dart';
2 import 'package:flutter/material.dart';
3 import 'package:music_player_app/screens/Home.dart';
4 import 'package:music_player_app/screens/Upload.dart';
5
6 import 'package:firebase_core/firebase_core.dart';
7
8 void main() async{
9     WidgetsFlutterBinding.ensureInitialized();
10    await Firebase.initializeApp();
11    runApp(MyApp());
12 }
13
14 class MyApp extends StatefulWidget {
15     @override
16     _MyAppState createState() => _MyAppState();
17 }
18
19 class _MyAppState extends State<MyApp> {
20
21     int currentindex = 0;
22
23     List tabs = [
24         Home(),
25         Upload(),
26     ];
27     @override
28     Widget build(BuildContext context) {
29         return MaterialApp(
30             title: "Music Player App",
31             theme: ThemeData(
32                 primarySwatch: Colors.blue,
33             ),
34             home: Scaffold(
35                 appBar: AppBar(
36                     title: Text("Music Player App"),
37                 ),
38                 body: tabs[currentindex],
39                 bottomNavigationBar: BottomNavigationBar(
40                     currentIndex: currentindex,
41                     items: [
42                         BottomNavigationBarItem(
43                             icon: Icon(Icons.home),
44                             title: Text("Home"),
45                         ),
46                         BottomNavigationBarItem(
47                             icon: Icon(Icons.cloud_upload),
48                             title: Text("Upload"),
49                         )
50                     ],
51                     onTap: (index) {
52                         setState(() {
53                             currentindex = index;
54                         });
55                     },
56                 ),
57             );
58     }
59 }
```

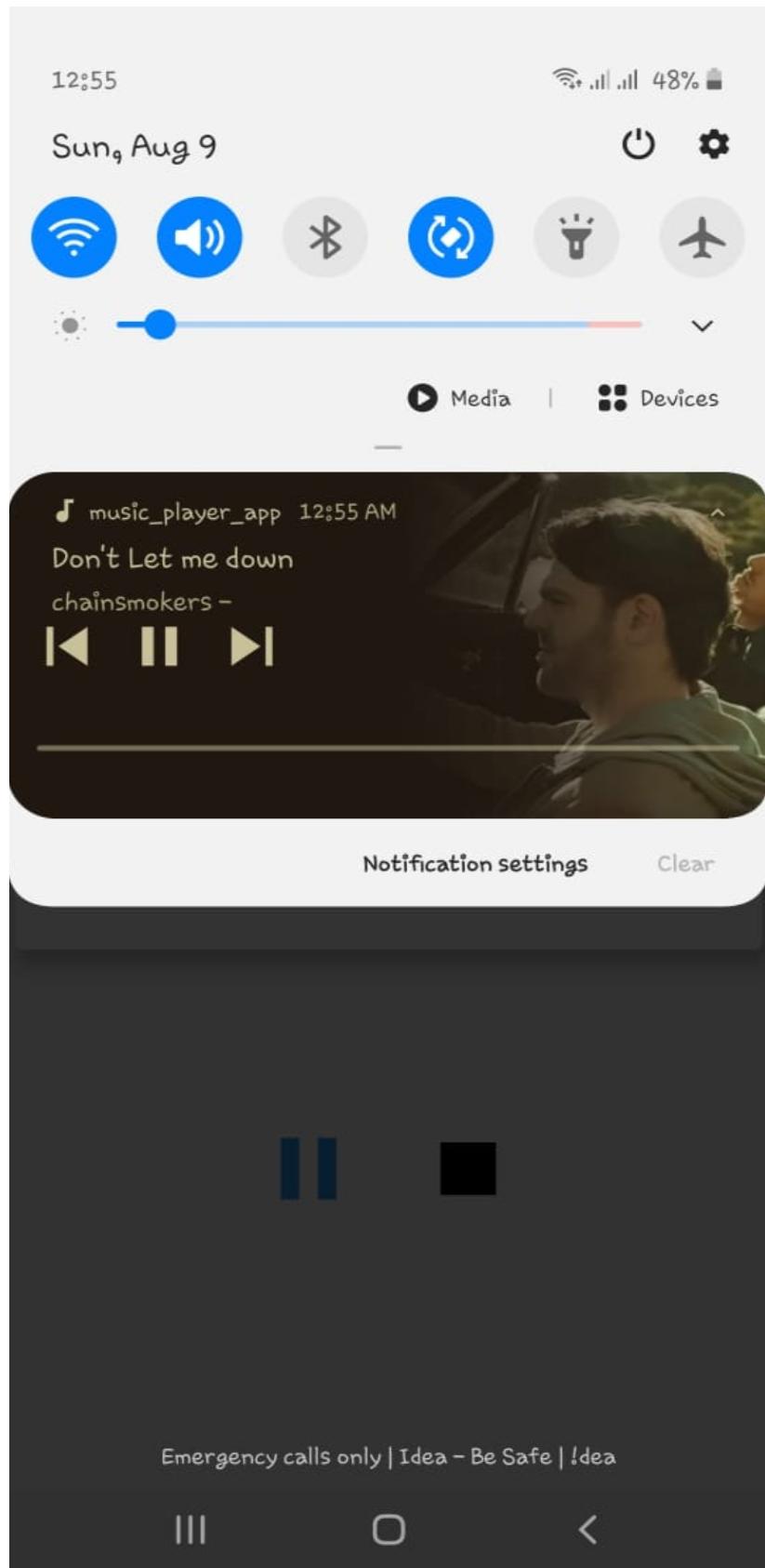


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Screenshots of outputs: Notification

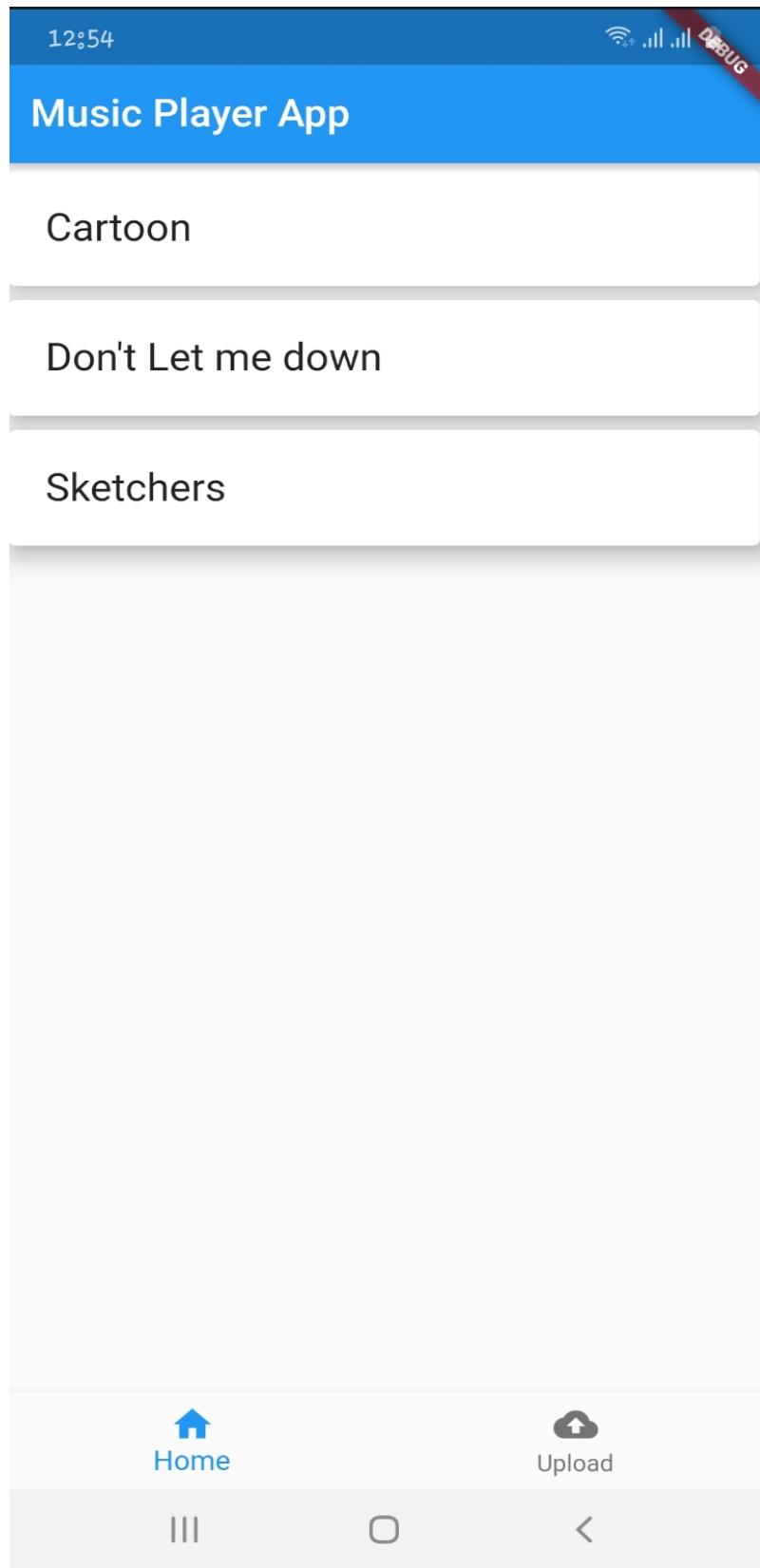


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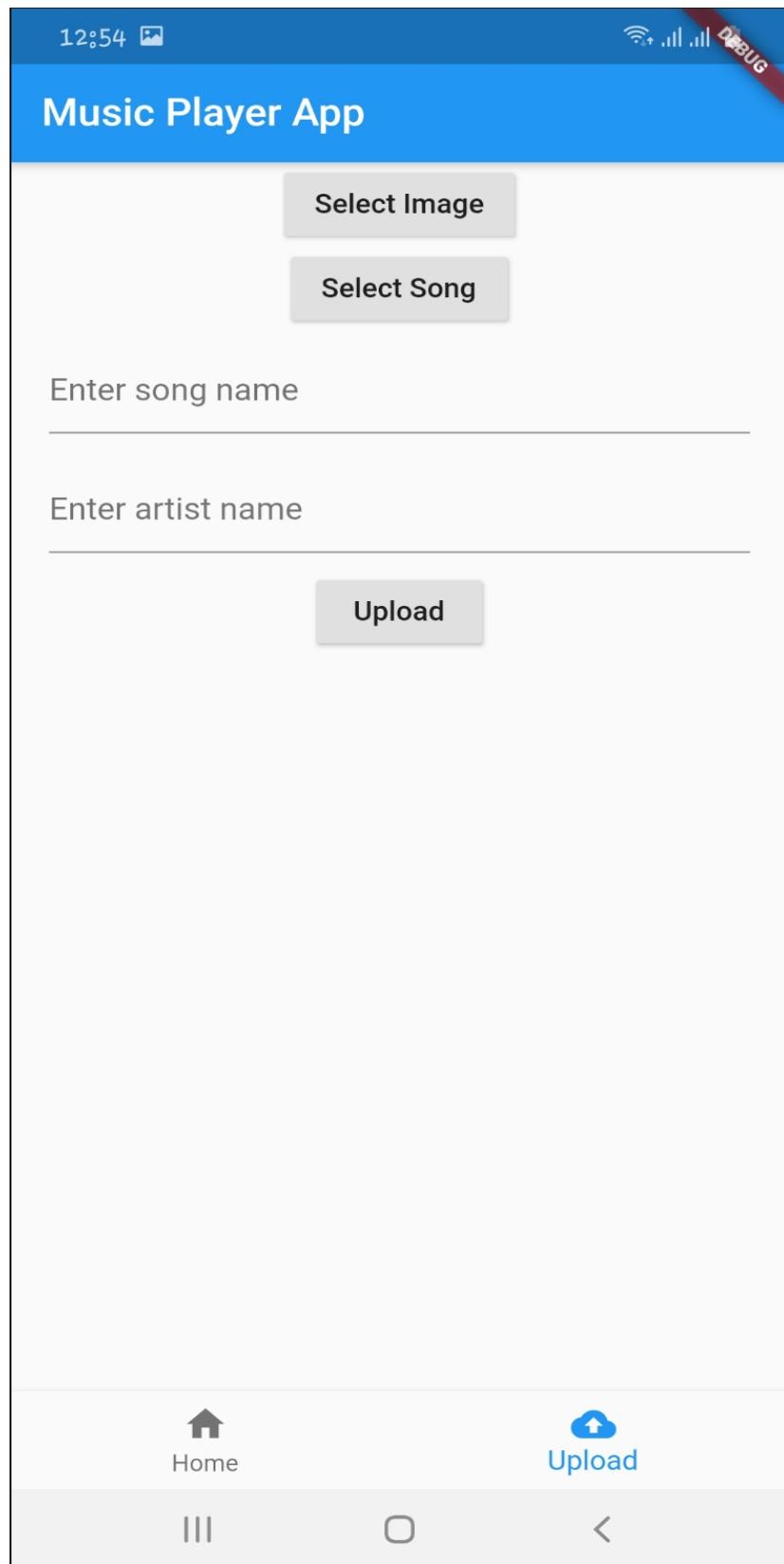
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Home Screen



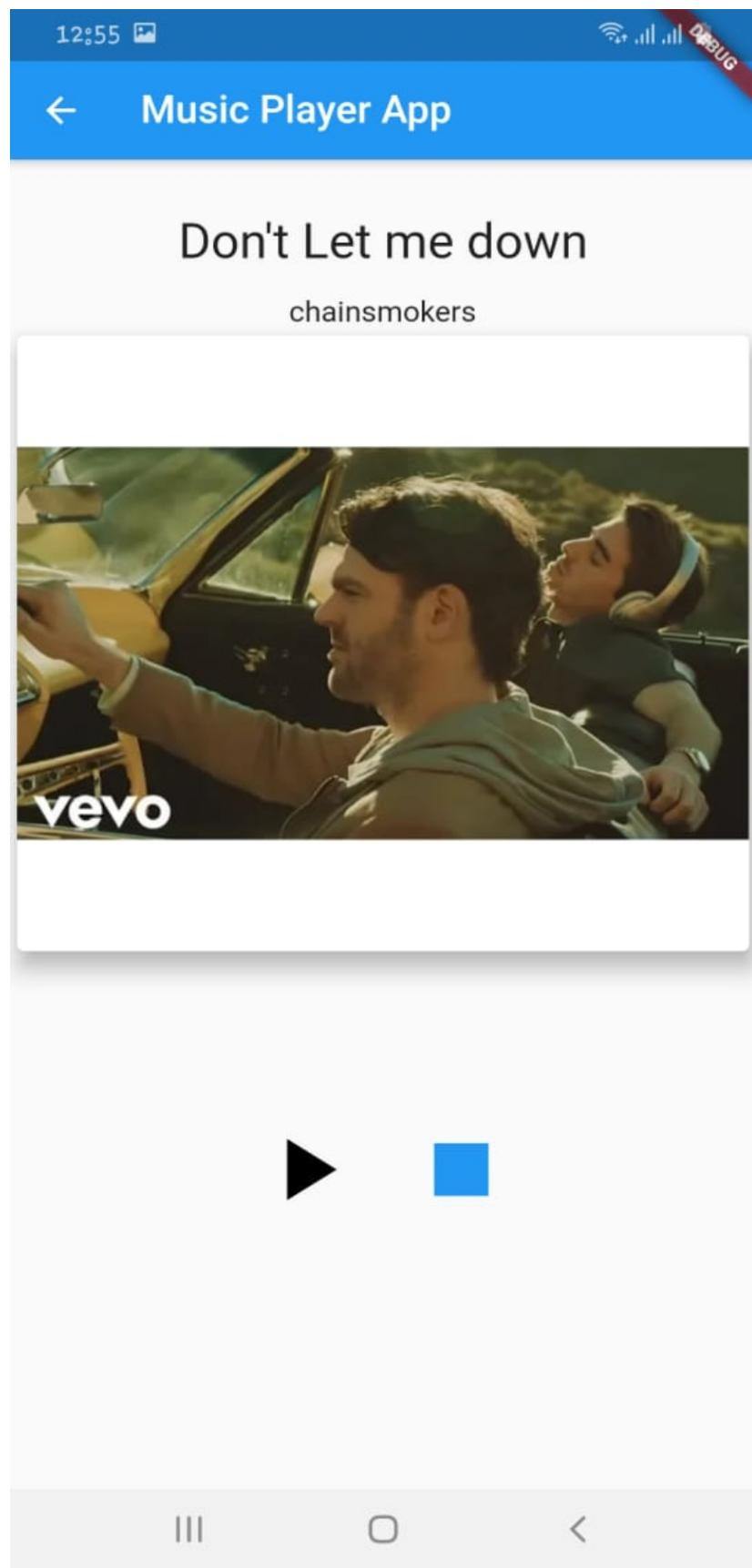
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Upload screen



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Songs player section



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12:54

Wi-Fi 3G DEBUG

← Music Player App

Cartoon

Cartoon

