

# APP DEVELOPMENT USING FLUTTER

## SEC (PRACTICAL)

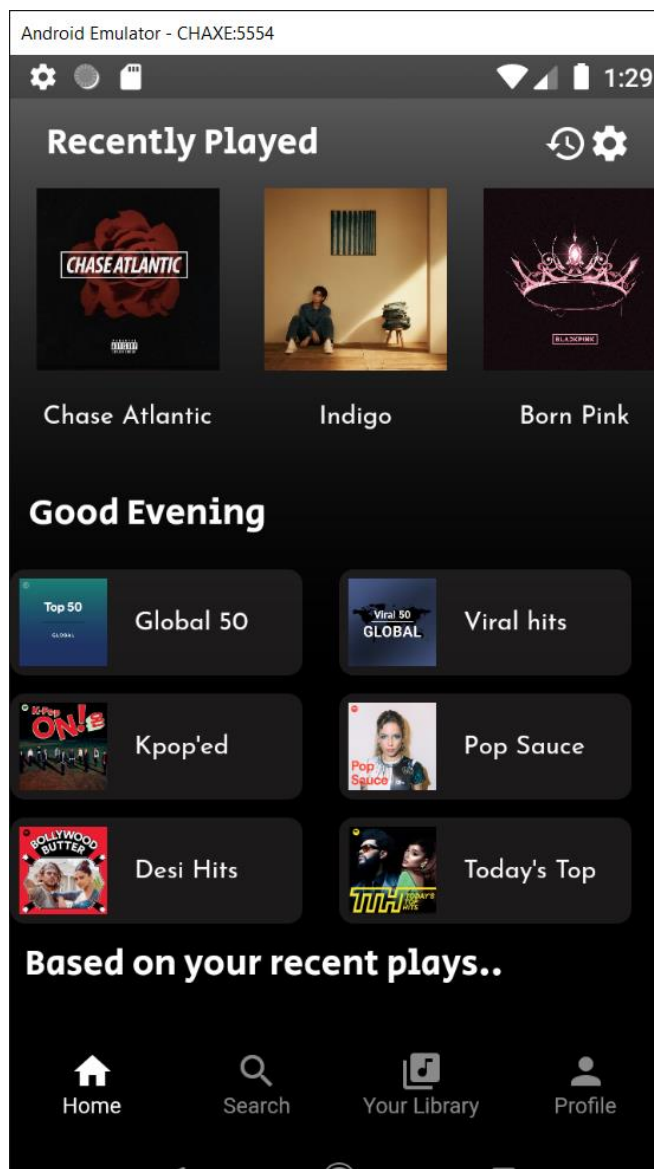
NAME: Nancy Kaim

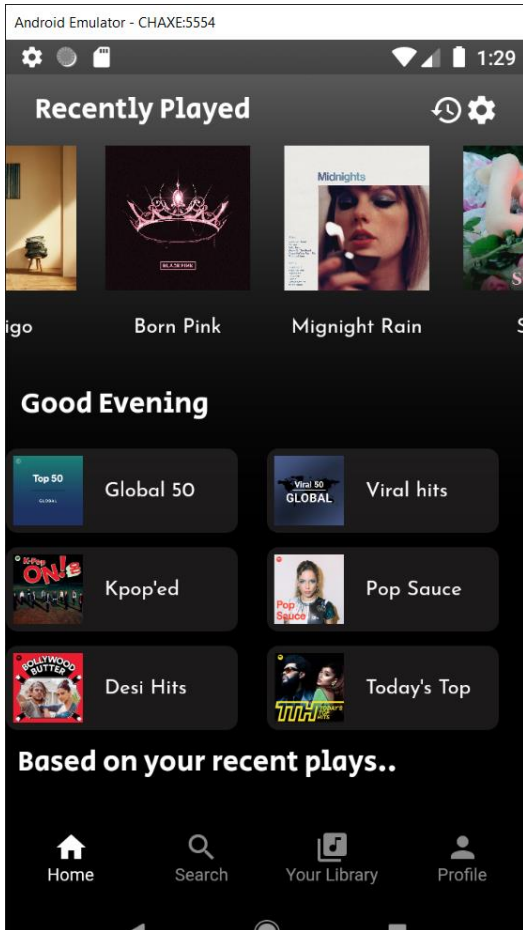
ROLL NO-: 22/CS/43

COURSE: BSc(H) COMPUTER SCIENCE

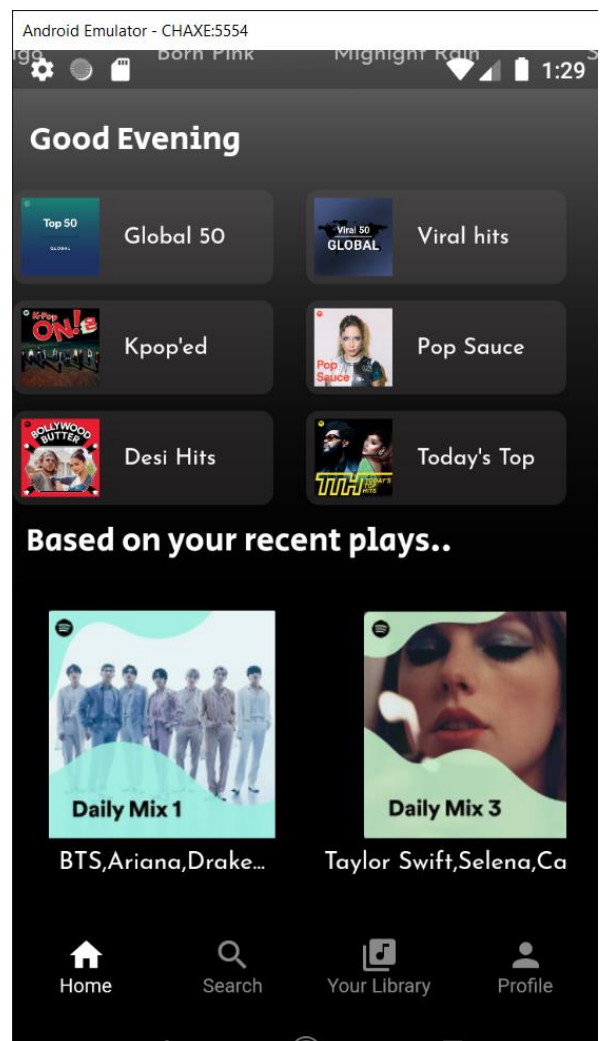
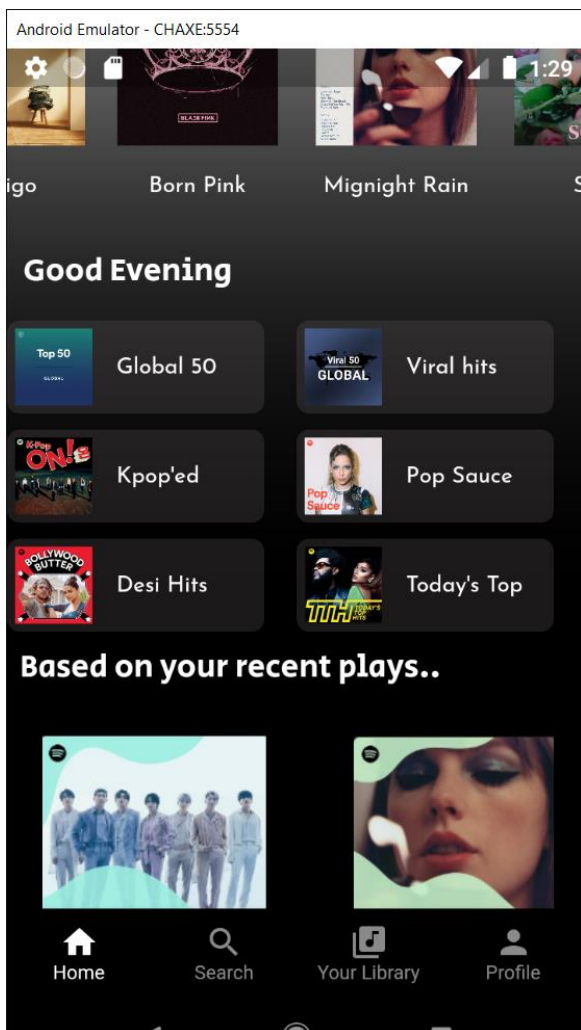
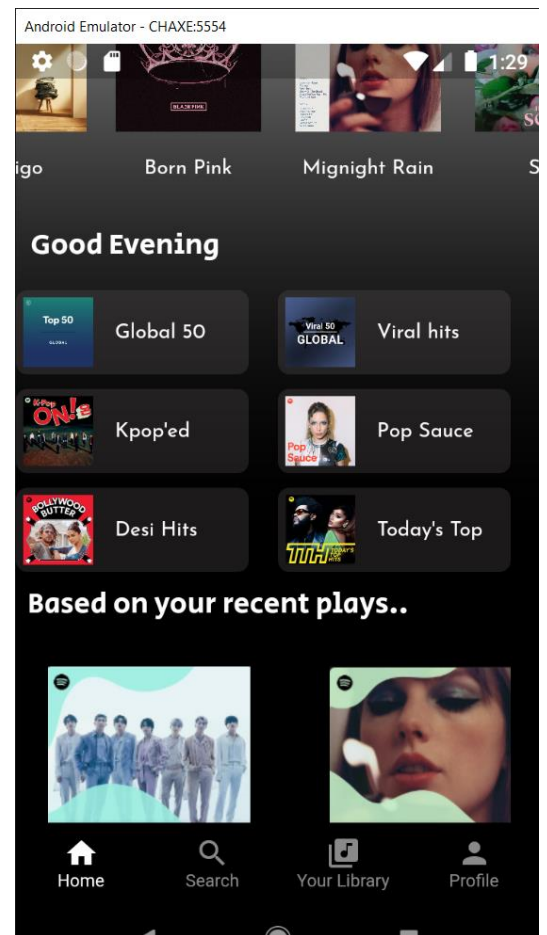
ABOUT APP:

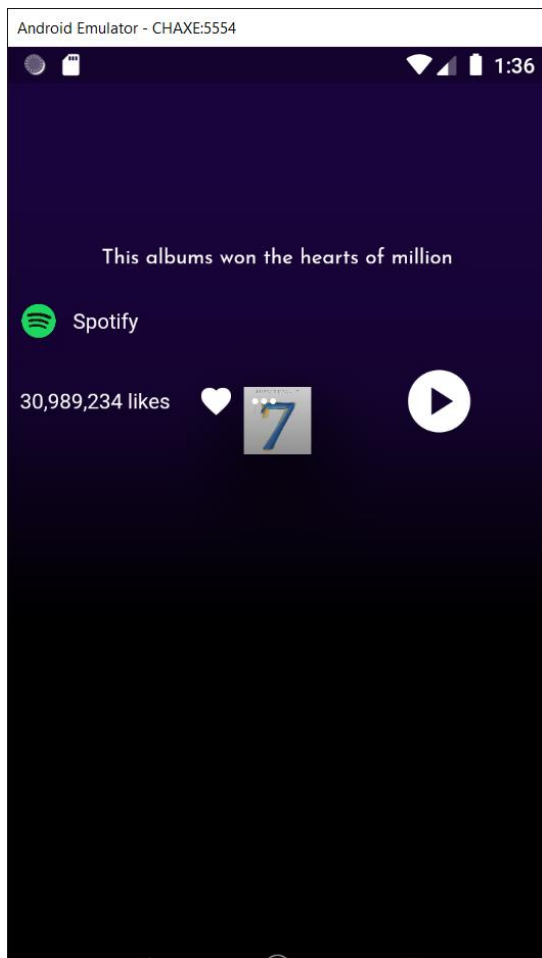
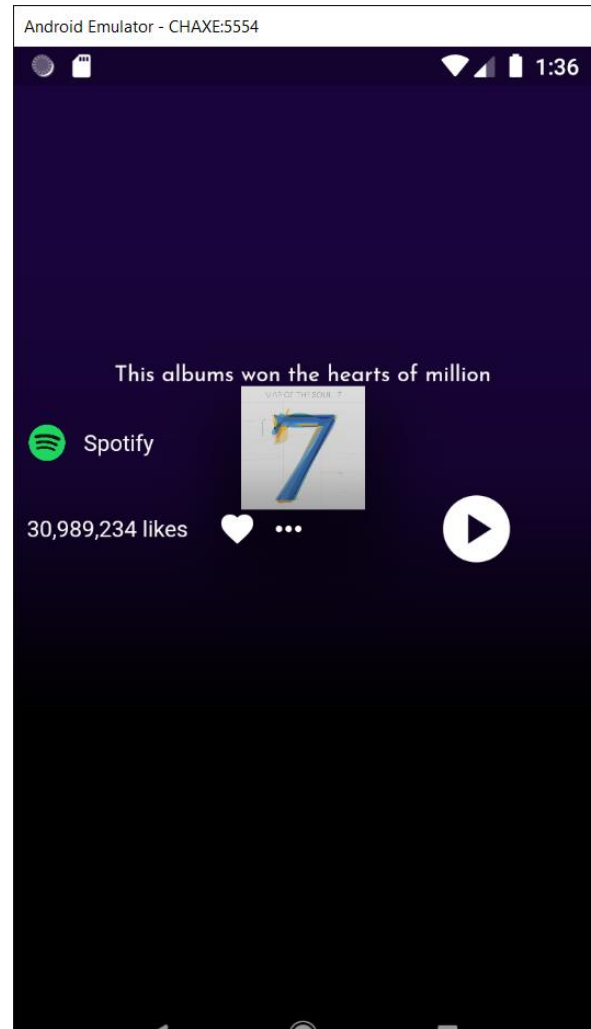
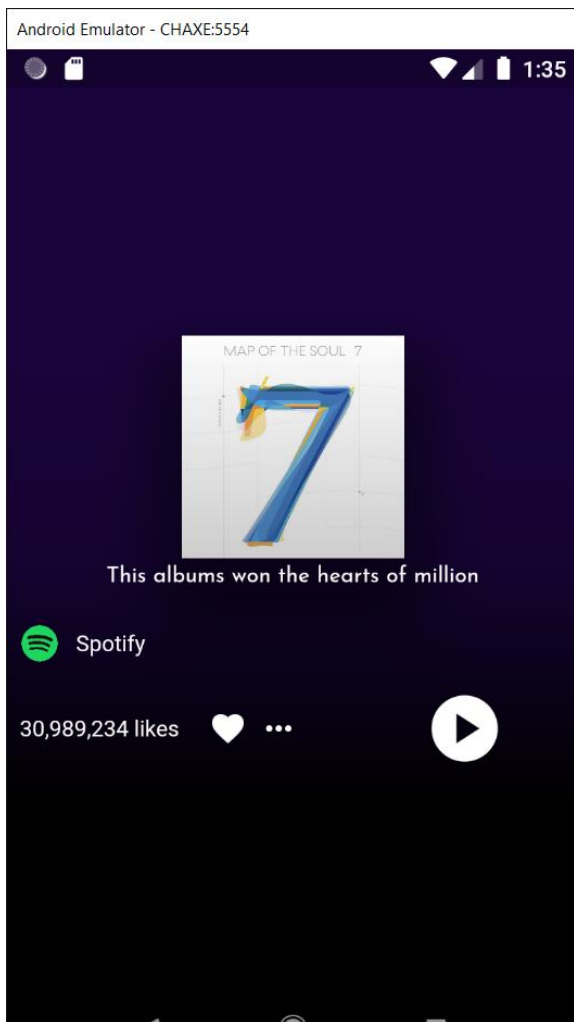
*I made a clone app of Spotify 😊*





SCROLLING ROW WISE  
AND COLUMN WISE





**AS WE SCROLL UPWARD THE IMAGE SHRINKS THE  
GRADIENT AND THE CONTENT GOES UPWARDS  
MADE USING SCROLLCONTROLLER !!**

#### MAIN.DART FILE:

```
import 'package:flutter/material.dart';
import 'package:zpottyfi/navigators/tabbar.dart';

void main() {
  runApp(const MyApp());
}

class MyApp extends StatefulWidget {
  const MyApp({super.key});

  @override
  State<MyApp> createState() => _MainAppState();
}

class _MainAppState extends State<MyApp> {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      debugShowCheckedModeBanner: false,
      home: const Tabbar(),
      themeMode: ThemeMode.dark,
      darkTheme: ThemeData(
        scaffoldBackgroundColor: Colors.black,
        brightness: Brightness.dark,
        bottomNavigationBarTheme: const BottomNavigationBarThemeData(
          backgroundColor: Colors.black,
          type: BottomNavigationBarType.fixed,
          selectedLabelStyle: TextStyle(fontSize: 12),
          unselectedLabelStyle: TextStyle(fontSize: 12),
          selectedItemColor: Colors.white,
          unselectedWidgetColor: Colors.white54),
      );
  }
}
```

#### STATEFULL ICONS THAT NAVIGATE THROUGH DIFF PAGES:

```
import 'package:flutter/material.dart';
import 'package:flutter/src/widgets/framework.dart';
```

```
import 'package:flutter/src/widgets/placeholder.dart';
import 'package:zpottyfi/views/home.dart';
import 'package:zpottyfi/views/library.dart';
import 'package:zpottyfi/views/profile.dart';
import 'package:zpottyfi/views/search.dart';

class Tabbar extends StatefulWidget {
  const Tabbar({super.key});

  @override
  State<Tabbar> createState() => _TabbarState();
}

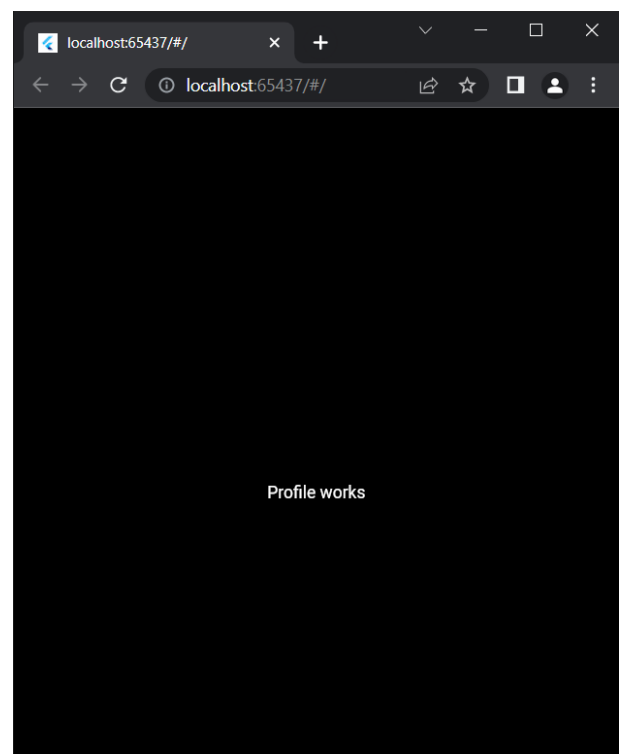
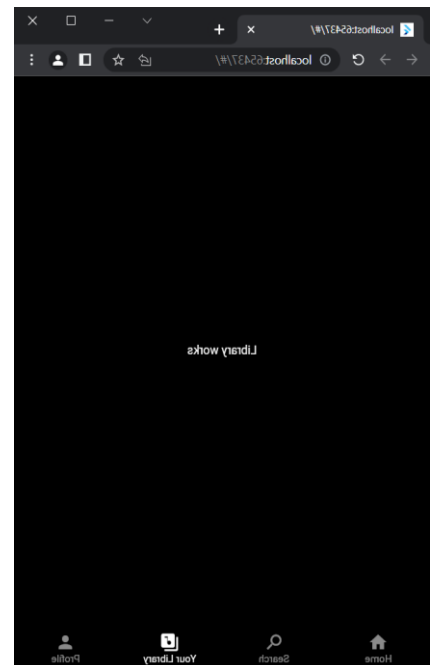
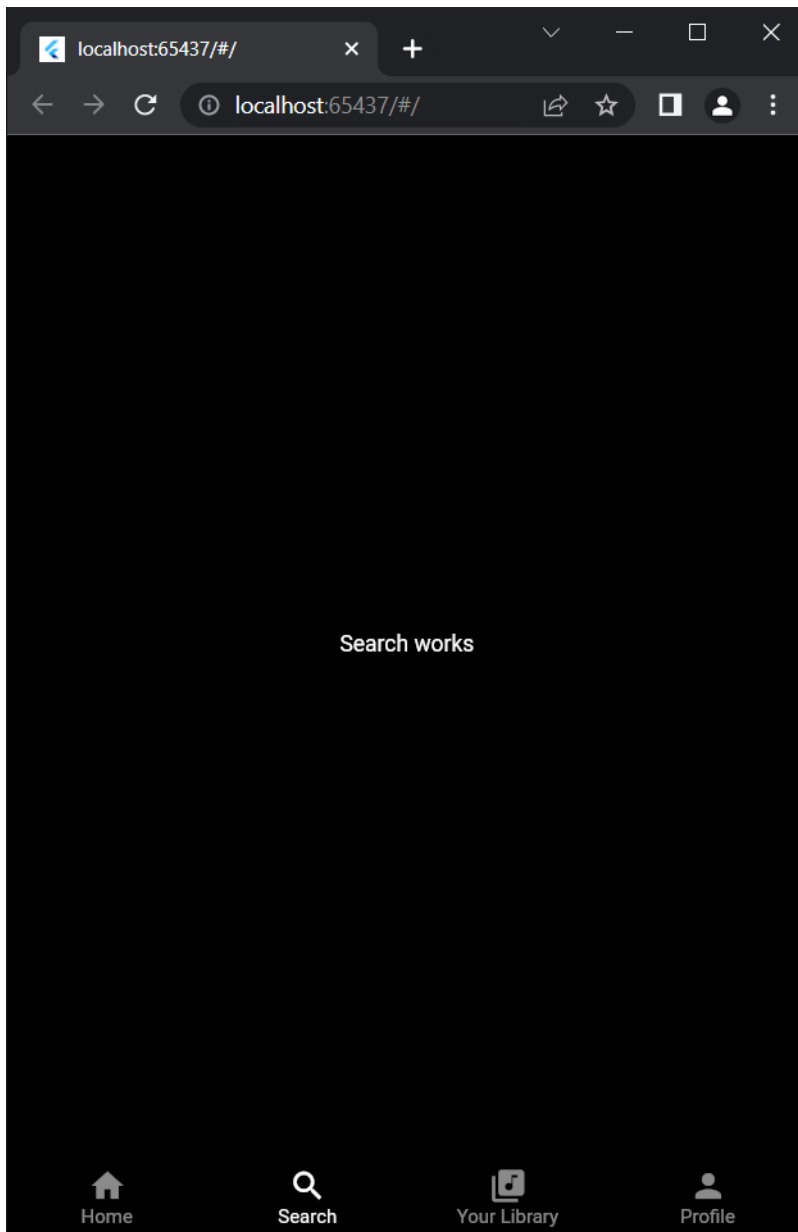
class _TabbarState extends State<Tabbar> {
  int _selectedTab = 0;
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      bottomNavigationBar: BottomNavigationBar(
        currentIndex: _selectedTab,
        onTap: (index) {
          setState(() {
            _selectedTab = index;
          });
        },
        items: const [
          BottomNavigationBarItem(icon: Icon(Icons.home), label: "Home"),
          BottomNavigationBarItem(
            icon: Icon(Icons.search_outlined), label: "Search"),
          BottomNavigationBarItem(
            icon: Icon(Icons.library_music), label: "Your Library"),
          BottomNavigationBarItem(icon: Icon(Icons.person), label: "Profile"),
        ],
      ),
      body: Stack(children: [
        renderView(
          0,
          const HomeView(),
        ),
        renderView(
          1,
          const SearchView(),
        ),
        renderView(
          2,
          const LibraryView(),
        ),
        renderView(
```

```

        3,
        const ProfileView(),
      ),
    ]),
  );
}

Widget renderView(int tabIndex, Widget view) {
  return IgnorePointer(
    ignoring: _selectedTab != tabIndex,
    child: Opacity(opacity: _selectedTab == tabIndex ? 1 : 0, child:
view));
}
}

```



## HomePage.dart file

```
import 'package:flutter/material.dart';
import 'package:google_fonts/google_fonts.dart';
import 'package:zpottyfi/navigators/song_card.dart';
import 'package:zpottyfi/views/albumview.dart';

import '../navigators/album_card.dart';

class HomeView extends StatefulWidget {
  const HomeView({super.key});
  @override
  State<HomeView> createState() => _HomeViewState();
}

class _HomeViewState extends State<HomeView> {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      body: Stack(
        alignment: Alignment.topCenter,
        children: [
          Container(
            width: MediaQuery.of(context).size.width,
            height: MediaQuery.of(context).size.height * .6,
            decoration: BoxDecoration(
              gradient: LinearGradient(
                begin: Alignment.topCenter,
                end: Alignment.bottomCenter,
                colors: [
                  Colors.white.withOpacity(0.4),
                  Colors.black.withOpacity(0)
                ],
              ),
            ),
          ),
          SingleChildScrollView(
            physics: BouncingScrollPhysics(),
            child: SafeArea(
              child: Column(
                crossAxisAlignment: CrossAxisAlignment.stretch,
                mainAxisAlignment: MainAxisAlignment.center,
                children: [
```

```

        SizedBox(
          height: 10,
        ),
        Padding(
          padding: const EdgeInsets.symmetric(horizontal: 20.0),
          child: Row(
            mainAxisAlignment: MainAxisAlignment.spaceBetween,
            children: [
              Text("Recently Played",
                style: GoogleFonts.secularOne(fontSize: 20)),
              SizedBox(
                width: 20,
              ),
              Row(
                children: const [
                  Icon(Icons.history),
                  Icon(Icons.settings)
                ],
              )
            ],
          ),
        ),
      ),
    SingleChildScrollView(
      scrollDirection: Axis.horizontal,
      physics: BouncingScrollPhysics(),
      padding: EdgeInsets.all(10),
      child: Row(
        children: [
          AlbumCard(
            onTap: () {
              Navigator.push(
                context,
                MaterialPageRoute(
                  builder: (context) => AlbumView()));
            },
            label: "Chase Atlantic",
            image: AssetImage("lib/img/ca2.jpg")),
          SizedBox(
            width: 20,
          ),
          AlbumCard(
            onTap: () {
              Navigator.push(
                context,
                MaterialPageRoute(
                  builder: (context) => AlbumView()));
            },
            label: "Indigo",

```



```
        image: AssetImage("lib/img/rm.jpg")),
      SizedBox(
        width: 20,
      ),
      AlbumCard(
        onTap: () {
          Navigator.push(
            context,
            MaterialPageRoute(
              builder: (context) => AlbumView()));
        },
        label: "Born Pink",
        image: AssetImage("lib/img/bp2.jpg")),
      SizedBox(
        width: 20,
      ),
      AlbumCard(
        onTap: () {
          Navigator.push(
            context,
            MaterialPageRoute(
              builder: (context) => AlbumView()));
        },
        label: "Mignight Rain",
        image: AssetImage("lib/img/t1.jpg")),
      SizedBox(
        width: 20,
      ),
      AlbumCard(
        onTap: () {
          Navigator.push(
            context,
            MaterialPageRoute(
              builder: (context) => AlbumView()));
        },
        label: "Solo",
        image: AssetImage("lib/img/bp1.jpg")),
      SizedBox(
        width: 20,
      ),
      AlbumCard(
        onTap: () {
          Navigator.push(
            context,
            MaterialPageRoute(
              builder: (context) => AlbumView()));
        },
        label: "Riha",
```

```

        image: AssetImage("lib/img/riha.jpg")),
      SizedBox(
        width: 20,
      ),
      AlbumCard(
        onTap: () {
          Navigator.push(
            context,
            MaterialPageRoute(
              builder: (context) => AlbumView()));
        },
        label: "MOTS:7",
        image: AssetImage("lib/img/b1.jpg")),
    ],
  )),
  SizedBox(
    height: 4,
  ),
  Column(
    crossAxisAlignment: CrossAxisAlignment.start,
    children: [
      Padding(
        padding: const EdgeInsets.all(10),
        child: Text(
          "Good Evening",
          style: GoogleFonts.secularOne(fontSize: 20),
        ),
      ),
      SizedBox(
        height: 6,
      ),
      Row(
        children: const [
          RowAlbumCard(
            label: "Global 50",
            image: AssetImage("lib/img/g1.jpg"),
          ),
          SizedBox(
            width: 20,
          ),
          RowAlbumCard(
            label: "Viral hits",
            image: AssetImage("lib/img/v1.jpg"),
          ),
          SizedBox(
            width: 20,
          )
        ],
      ),
    ],
  ),

```

```

    ),
    SizedBox(
      height: 10,
    ),
    Row(
      children: const [
        RowAlbumCard(
          label: "Kpop'ed",
          image: AssetImage("lib/img/kpop.png"),
        ),
        SizedBox(
          width: 20,
        ),
        RowAlbumCard(
          label: "Pop Sauce",
          image: AssetImage("lib/img/s.png"),
        ),
        SizedBox(
          width: 20,
        ),
      ],
    ),
    SizedBox(
      height: 10,
    ),
    Row(
      children: const [
        RowAlbumCard(
          label: "Desi Hits",
          image: AssetImage("lib/img/z1.png"),
        ),
        SizedBox(
          width: 20,
        ),
        RowAlbumCard(
          label: "Today's Top",
          image: AssetImage("lib/img/z2.png"),
        ),
        SizedBox(
          width: 20,
        ),
      ],
    )
  ],
),
Padding(
  padding: const EdgeInsets.all(8.0),
  child: Column(

```

```

        crossAxisAlignment: CrossAxisAlignment.start,
        children: [
          Text(
            "Based on your recent plays..",
            style: GoogleFonts.secularOne(fontSize: 20),
          ),
        ],
      ),
    ),
  ),
  Padding(
    padding: const EdgeInsets.all(20),
    child: SingleChildScrollView(
      scrollDirection: Axis.horizontal,
      physics: BouncingScrollPhysics(),
      child: Row(
        children: const [
          SongCard(
            image: AssetImage("lib/img/d1.png"),
            label: ("BTS,Ariana,Drake..."),
          ),
          SizedBox(
            width: 20,
            height: 20,
          ),
          SongCard(
            image: AssetImage("lib/img/d2.png"),
            label: ("Taylor Swift,Selena,Camilla..")),
          SizedBox(
            width: 20,
            height: 20,
          ),
          SongCard(
            image: AssetImage("lib/img/d4.png"),
            label: ("RM,Bad Bunny,Lady Ga...")),
          SizedBox(
            width: 20,
            height: 20,
          ),
        ],
      )),
    ),
  ),
),
),
),
),
),
);
}

```

```

}

class RowAlbumCard extends StatelessWidget {
  final AssetImage image;
  final String label;

  const RowAlbumCard({
    super.key,
    required this.image,
    required this.label,
  });

  @override
  Widget build(BuildContext context) {
    return Expanded(
      flex: 1,
      child: Container(
        decoration: BoxDecoration(
          color: Color.fromARGB(68, 102, 98, 98),
          borderRadius: BorderRadiusDirectional.circular(8)),
        clipBehavior: Clip.antiAlias,
        child: Row(children: [
          Padding(
            padding: EdgeInsets.all(5),
            child: Image(
              image: image,
              width: 48,
              height: 48,
              fit: BoxFit.cover,
            ),
          ),
          SizedBox(width: 10),
          Text(label, style: GoogleFonts.josefinSans()),
        ]),
      ),
    );
  }
}

```

#### ALBUM AND SONG CARDS AND TILE VIEW:

```

import 'package:flutter/material.dart';
import 'package:google_fonts/google_fonts.dart';

class SongCard extends StatelessWidget {
  final AssetImage image;
  final String lable;
  const SongCard({super.key, required this.image, required this.lable});
}

```

```

@override
Widget build(BuildContext context) {
  return Container(
    child: Column(
      children: [
        Image(
          image: image,
          width: 140,
          height: 140,
        ),
        Padding(
          padding: const EdgeInsets.all(8.0),
          child: Text(
            lable,
            style: GoogleFonts.josefinSans(fontSize: 15),
            overflow: TextOverflow.ellipsis,
            maxLines: 2,
          ),
        ),
      ],
    ));
}

```

```

import 'package:flutter/material.dart';
import 'package:google_fonts/google_fonts.dart';
import 'package:zpotyfi/views/albumview.dart';

class AlbumCard extends StatelessWidget {
  final ImageProvider image;
  final String label;
  final Function() onTap;
  const AlbumCard(
    {super.key,
    required this.image,
    required this.label,
    required this.onTap});

  @override
  Widget build(BuildContext context) {
    return GestureDetector(
      onTap: onTap,
      child: Column(
        crossAxisAlignment: CrossAxisAlignment.center,

```

```

        children: [
          Image(
            image: image,
            width: 100,
            height: 100,
          ),
          const SizedBox(
            height: 10,
          ),
          Padding(
            padding: const EdgeInsets.all(8.0),
            child: Text(
              label,
              style: GoogleFonts.josefinSans(),
            ),
          ),
        ],
      ),
    );
  }
}

```

#### ALBUM SCREEN VIEW:

```

import 'package:flutter/material.dart';
import 'package:google_fonts/google_fonts.dart';

class AlbumView extends StatefulWidget {
  const AlbumView({super.key});

  @override
  State<AlbumView> createState() => _AlbumViewState();
}

class _AlbumViewState extends State<AlbumView> {
  ScrollController? scrollController;
  double initialSize = 240;
  double imageSize = 0;
  double containerHeight = 500;
  @override
  void initState() {
    scrollController = ScrollController()
      ..addListener(() {
        imageSize = initialSize;
        // ignore: avoid_print
        print(imageSize);
        imageSize = 140 - scrollController!.offset;
      });
  }
}

```

```

    if (imageSize > 0 && imageSize < 140) {
      setState(() {});
    }
  });
  super.initState();
}

@override
Widget build(BuildContext context) {
  return Scaffold(
    body: Stack(
      children: [
        Container(
          height: containerHeight,
          color: const Color.fromARGB(255, 26, 4, 61),
          child: Center(
            child: Container(
              width: imageSize,
              height: imageSize,
              decoration: BoxDecoration(boxShadow: [
                BoxShadow(
                  color: Colors.black.withOpacity(0.5),
                  offset: const Offset(0, 26),
                  blurRadius: 32,
                  spreadRadius: 16,
                )
              ]),
            child: Image(
              image: const AssetImage("lib/img/b1.jpg"),
              width: imageSize,
              height: imageSize,
              fit: BoxFit.cover),
          ),
        ),
        SafeArea(
          child: SingleChildScrollView(
            controller: scrollController,
            physics: const BouncingScrollPhysics(),
            child: Stack(
              children: [
                Container(
                  clipBehavior: Clip.none,
                  width: MediaQuery.of(context).size.width,
                  height: 450,
                  decoration: BoxDecoration(
                    gradient: LinearGradient(
                      begin: Alignment.topCenter,

```



```
end: Alignment.bottomCenter,
    colors: [
      Colors.black.withOpacity(0),
      Colors.black.withOpacity(0),
      Colors.black.withOpacity(0.2),
      Colors.black.withOpacity(1),
    ])),
child: Column(
  children: [
    SizedBox(
      height: imageSize + 90,
    ),
    const SizedBox(
      height: 55,
    ),
    Padding(
      padding: const EdgeInsets.symmetric(vertical: 15),
      child: Text("This albums won the hearts of million",
        style: GoogleFonts.josefinSans()),
    ),
    Padding(
      padding: const EdgeInsets.all(8),
      child: Row(
        children: const [
          Image(
            image: AssetImage("lib/img/logo.png"),
            width: 25,
            height: 25),
          Text(" Spotify")
        ],
      ),
    ),
    Padding(
      padding: const EdgeInsets.all(8.0),
      child: Row(
        children: const [
          Text("30,989,234 likes"),
          SizedBox(
            width: 18,
          ),
          Icon(Icons.favorite),
          SizedBox(
            width: 8,
          ),
          Icon(Icons.more_horiz),
          SizedBox(
            width: 80,
          ),

```

```

        Icon(
          Icons.play_circle,
          size: 50,
        ),
      ],
    ),
  ),
],
),
),
Padding(
  padding: const EdgeInsets.symmetric(
    vertical: 450,
  ),
  child: Container(
    color: Colors.black,
    height: 400,
  ),
),
],
)),
),
],
)),
}
}

```

#### LIBRARY PAGE:

```

import 'package:flutter/material.dart';

class LibraryView extends StatefulWidget {
  const LibraryView({super.key});

  @override
  State<LibraryView> createState() => _LibraryViewState();
}

class _LibraryViewState extends State<LibraryView> {
  @override
  Widget build(BuildContext context) {
    return const Scaffold(body: Center(child: Text("Library works")));
  }
}

```

#### SEARCH PAGE:

```
import 'package:flutter/material.dart';

class SearchView extends StatefulWidget {
  const SearchView({super.key});

  @override
  State<SearchView> createState() => _SearchViewState();
}

class _SearchViewState extends State<SearchView> {
  @override
  Widget build(BuildContext context) {
    return const Scaffold(body: Center(child: Text("Search works")));
  }
}
```

#### PROFILE PAGE:

```
class ProfileView extends StatefulWidget {
  const ProfileView({super.key});

  @override
  State<ProfileView> createState() => _ProfileViewState();
}

class _ProfileViewState extends State<ProfileView> {
  @override
  Widget build(BuildContext context) {
    return const Scaffold(body: Center(child: Text("Profile works")));
  }
}
```