MPL EXP 5

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AIM:To apply navigation, routing and gestures in Flutter app.

Theory:

In Flutter, the screens and pages are known as routes, and these routes are just a widget. In Android, a route is similar to an Activity.
In any mobile app, navigating to different pages defines the workflow of the application, and the way to handle the navigation is known as routing. Flutter provides a basic routing class MaterialPageRoute and two methods Navigator.push() and Navigator.pop() that shows how to navigate between two routes. The following steps are required to start navigation in your application.
Gestures enable the app to respond to user interactions, making the application more dynamic and responsive.

➢ **Navigation and Routing in Flutter**

Navigation is the process of moving between different screens or pages in an app. Flutter provides a simple and effective way to handle this through the use of the Navigator widget and
routes.

1. Using Navigator Widget

The Navigator widget manages a stack of routes, allowing for pushing and popping routes on
the stack.
• **Pushing a Route**: To navigate to a new screen, use Navigator.push().
• **Popping a Route**: To go back to the previous screen, use Navigator.pop().

```
ElevatedButton(
  onPressed: () {
```

```
    Navigator.push(
```
```
      context,
      MaterialPageRoute(builder: (context) => SecondScreen()),
    );},
);
```

2. Named Routes
Flutter also allows the use of named routes to navigate, which can make the routing process
cleaner, especially in larger applications.
```
MaterialApp(
  initialRoute: '/',
  routes: {
    '/': (context) => HomeScreen(),
    '/second': (context) => SecondScreen(),
  },
);
```
Navigate to the route using Navigator.pushNamed()
Navigator.pushNamed(context, '/second');

3. Handling Gestures in Flutter
Gestures refer to user interactions with the app, such as taps, swipes, pinches, and drags.
Flutter provides several widgets and gesture detectors to handle these interactions.

4.Tap Gestures
The most common gesture is the tap, which can be handled using the GestureDetector
widget or specific buttons like InkWell or ElevatedButton.

5.Long Press Gesture
For long press gestures, Flutter provides the onLongPress callback in GestureDetector or
InkWell.

6.Swipe and Drag Gestures
Flutter also provides swipe and drag gesture handling. The onHorizontalDragUpdate and
onVerticalDragUpdate callbacks are used for dragging gestures.

Main.dart

```dart
import 'package:flutter/material.dart';
import
'features/auth/screens/home_screen.dart';
import
'features/auth/screens/search_screen.dart';
import
'features/auth/screens/profile_page.dart';
import
'features/auth/screens/music_screen.dart';
import
'features/auth/screens/sign_in_screen.dart';
import
'features/auth/screens/loading_screen.dart';
import
'features/auth/screens/register_screen.dart';
import
'package:flutter_riverpod/flutter_riverpod.
dart';
import 'config/theme.dart';


void main() {
  runApp(
    const ProviderScope(
      child: SpotifyClone(),
    ),
  );
}
class SpotifyClone extends
StatelessWidget {
  const SpotifyClone({Key? key}) :
super(key: key);
// Keep instances of screens to maintain
their state
  final List<Widget> _screens = const [
    HomeScreen(),
    SearchScreen(),
    MusicScreen(),
    ProfileScreen(),
  ];

  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      debugShowCheckedModeBanner:
false,
      title: 'Spotify Clone',
      theme: AppTheme.lightTheme,
      home: const LoadingScreen(), //
Changed initialRoute to home
      routes: {
        '/signin': (context) => const
SignInScreen(),
        '/main': (context) => const
MainScreen(),
      },
    );
  }
}

class MainScreen extends StatefulWidget
{
  const MainScreen({Key? key}) :
super(key: key);

  @override
  State<MainScreen> createState() =>
_MainScreenState();
}

class _MainScreenState extends
State<MainScreen> {
  int _selectedIndex = 0;
  type: BottomNavigationBarType.fixed,
        backgroundColor: const
Color(0xFF282828),
        selectedItemColor: Colors.white,
        unselectedItemColor: Colors.grey,
        selectedIconTheme: const
IconThemeData(
          size: 28,
```

```dart
  void _onItemTapped(int index) {
    setState(() {
      _selectedIndex = index;
    });
  }

  @override
  Widget build(BuildContext context) {
    return WillPopScope(
      // Handle back button press
      onWillPop: () async {
        if (_selectedIndex != 0) {
          setState(() {
            _selectedIndex = 0;
          });
          return false;
        }
        return true;
      },
      child: Scaffold(
        // Use IndexedStack to preserve state
of all screens
        body: IndexedStack(
          index: _selectedIndex,
          children: _screens,
        ),
        bottomNavigationBar: Theme(
          data: Theme.of(context).copyWith(
            canvasColor: Colors.black,
          ),
          child: BottomNavigationBar(
            currentIndex: _selectedIndex,
            onTap: _onItemTapped,

BottomNavigationBarItem(
            icon: Padding(
              padding:
EdgeInsets.only(bottom: 4),
              child:
Icon(Icons.library_music),
            ),
```

```dart
            color: Colors.white,
          ),
          unselectedIconTheme: const
IconThemeData(
            size: 24,
            color: Colors.grey,
          ),
          selectedLabelStyle: const
TextStyle(
            fontSize: 12,
            fontWeight: FontWeight.bold,
          ),
          unselectedLabelStyle: const
TextStyle(
            fontSize: 12,
          ),
          items: const [
            BottomNavigationBarItem(
              icon: Padding(
                padding:
EdgeInsets.only(bottom: 4),
                child: Icon(Icons.home_filled),
              ),
              label: 'Home',
            ),
            BottomNavigationBarItem(
              icon: Padding(
                padding:
EdgeInsets.only(bottom: 4),
                child: Icon(Icons.search),
              ),
              label: 'Search',
            ),
```

Sign_in.dart
```dart
import 'package:flutter/material.dart';
import 'package:spotify_clone/main.dart';

import 'register.dart';

class SignInScreen extends StatefulWidget
```

```dart
          label: 'Library',
        ),
        BottomNavigationBarItem(
          icon: Padding(
            padding:
EdgeInsets.only(bottom: 4),
            child: Icon(Icons.person),
          ),
          label: 'Profile',
        ),
      ],
    ),
    ),
    ),
  );
 }
}
```

```dart
Navigator.pop(context),
            ),
            const SizedBox(width: 12),
            Image.asset(

'assets/images/spotify_logo.png',
              height: 150,
            ),
```

```dart
{
  const SignInScreen({Key? key}) :
super(key: key);

  @override
  State<SignInScreen> createState() =>
_SignInScreenState();
}

class _SignInScreenState extends
State<SignInScreen> {
  bool _obscurePassword = true;

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: const
Color(0xFF1C1B1B),
      body: SafeArea(
        child: SingleChildScrollView(
          child: Padding(
            padding: const
EdgeInsets.all(24.0),
            child: Column(
              crossAxisAlignment:
CrossAxisAlignment.start,
              children: [
                Row(
                  children: [
                    IconButton(
                      icon: const
Icon(Icons.arrow_back, color:
Colors.white),
                      onPressed: () =>
              hintText: 'Enter Username Or
Email',
              hintStyle: const
TextStyle(color: Colors.grey),
              filled: true,
              fillColor:
Colors.grey.withOpacity(0.1),
              border: OutlineInputBorder(
```

```dart
          ],
        ),
        const SizedBox(height: 32),
        const Text(
          'Sign In',
          style: TextStyle(
            color: Colors.white,
            fontSize: 28,
            fontWeight: FontWeight.bold,
          ),
        ),
        const SizedBox(height: 8),
        Row(
          children: [
            const Text(
              'If You Need Any Support ',
              style: TextStyle(color:
Colors.grey),
            ),
            TextButton(
              onPressed: () {},
              child: const Text(
                'Click Here',
                style: TextStyle(color:
Colors.green),
              ),
            ),
          ],
        ),
        const SizedBox(height: 32),
        TextField(
          style: const TextStyle(color:
Colors.white),
          decoration: InputDecoration(
 setState(() {
                _obscurePassword =
!_obscurePassword;
              });
            },
          ),
        ),
      ),

              borderRadius:
BorderRadius.circular(12),
              borderSide:
BorderSide.none,
            ),
          ),
        ),
        const SizedBox(height: 16),
        TextField(
          obscureText:
_obscurePassword,
          style: const TextStyle(color:
Colors.white),
          decoration: InputDecoration(
            hintText: 'Password',
            hintStyle: const
TextStyle(color: Colors.grey),
            filled: true,
            fillColor:
Colors.grey.withOpacity(0.1),
            border: OutlineInputBorder(
              borderRadius:
BorderRadius.circular(12),
              borderSide:
BorderSide.none,
            ),
            suffixIcon: IconButton(
              icon: Icon(
                _obscurePassword
                    ? Icons.visibility_off
                    : Icons.visibility,
                color: Colors.grey,
              ),
              onPressed: () {
              ),
            ),
            child: const Text(
              'Sign In',
              style: TextStyle(
                fontSize: 16,
                fontWeight:
FontWeight.bold,
```

```dart
        const SizedBox(height: 16),
        Align(
         alignment:
Alignment.centerRight,
          child: TextButton(
           onPressed: () {},
           child: const Text(
            'Recovery Password',
            style: TextStyle(color:
Colors.grey),
           ),
          ),
        ),
        const SizedBox(height: 32),
        SizedBox(
          width: double.infinity,
          height: 56,
          child: ElevatedButton(
           onPressed: () {
            Navigator.push(
             context,
             MaterialPageRoute(
              builder: (context) =>
const MainScreen()),
            );
           },
           style:
ElevatedButton.styleFrom(
             backgroundColor: const
Color(0xFF42C83C),
             shape:
RoundedRectangleBorder(
              borderRadius:
BorderRadius.circular(30),
Colors.grey),
           ),
           TextButton(
            onPressed: () {
             Navigator.push(
              context,
              MaterialPageRoute(
               builder: (context) =>
```

```dart
      ),
     ),
    ),
   ),
   const SizedBox(height: 16),
   const Center(
    child: Text(
     'Or',
     style: TextStyle(color:
Colors.grey),
    ),
   ),
   const SizedBox(height: 16),
   Row(
    mainAxisAlignment:
MainAxisAlignment.center,
    children: [

Image.asset('assets/images/google_logo.pn
g', height: 40),
       const SizedBox(width: 20),

Image.asset('assets/images/apple_logo.png
', height: 40),
    ],
   ),
   const SizedBox(height: 32),
   Row(
    mainAxisAlignment:
MainAxisAlignment.center,
    children: [
     const Text(
      'Not A Member? ',
      style: TextStyle(color:
```

Register_screen.dart

```dart
import 'package:flutter/material.dart';
import
'package:spotify_clone/features/auth/scree
ns/sign_in_screen.dart';
import
'package:spotify_clone/features/auth/scree
ns/register.dart';
```

```
const Register()),
          );
        },
        child: const Text(
          'Register Now',
          style: TextStyle(color: Colors.blue),
        ),
      ),
    ],
  ),
],
),
),
),
),
);
}
}

 child: Column(
        crossAxisAlignment: CrossAxisAlignment.center,
        children: [
          Image.asset(
'assets/images/spotify_logo.png',
            width: //235
```

```
class RegisterScreen extends StatelessWidget {
  const RegisterScreen({Key? key}) : super(key: key);

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: const Color(0xFF1C1B1B),
      body: SafeArea(
        child: Column(
          children: [
            Padding(
              padding: const EdgeInsets.all(16.0),
              child: Row(
                children: [
                  IconButton(
                    icon: const Icon(Icons.arrow_back, color: Colors.white),
                    onPressed: () => Navigator.pop(context),
                  ),
                ],
              ),
            ),
            Expanded(
              child: SingleChildScrollView(
                child: Padding(
                  padding: const EdgeInsets.symmetric(horizontal: 24.0),
                                builder: (context) =>
                                    Register()), // Navigate to ThirdScreen
                  );
                  // Handle register
                },
                style:
```

```dart
            500,
          height: 150,
        ),
        const SizedBox(height: 32),
        const Text(
          'Enjoy Listening To Music',
          style: TextStyle(
            color: Colors.white,
            fontSize: 24,
            fontWeight:
FontWeight.bold,
          ),
        ),
        const SizedBox(height: 16),
        const Text(
          'Spotify is a proprietary
Swedish audio\nstreaming and media
services provider',
          textAlign:
TextAlign.center,
          style: TextStyle(
            color: Colors.grey,
            fontSize: 16,
          ),
        ),
        const SizedBox(height: 32),
        SizedBox(
          width: double.infinity,
          height: 56,
          child: ElevatedButton(
            onPressed: () {
              Navigator.push(
                context,
                MaterialPageRoute(
style: TextStyle(
            color: Colors.white,
            fontSize: 16,
          ),
        ),
      ),
    ),
  ],
),

ElevatedButton.styleFrom(
                  backgroundColor: const
Color(0xFF42C83C),
                  shape:
RoundedRectangleBorder(
                    borderRadius:
BorderRadius.circular(30),
                  ),
                ),
                child: const Text(
                  'Register',
                  style: TextStyle(
                    color: Colors.white,
                    fontSize: 16,
                    fontWeight:
FontWeight.bold,
                  ),
                ),
              ),
            ),
          const SizedBox(height: 16),
          TextButton(
            onPressed: () {
              Navigator.push(
                context,
                MaterialPageRoute(
                  builder: (context) =>
                    SignInScreen()), //
Navigate to ThirdScreen
                );
              // Handle sign in
            },
            child: const Text(
              'Sign in',
```

Home_screen.dart

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

// First, add this typography class at the
top of your file
```

```dart
          ),
        ),
      ),
    ],
  ),
),
);
  }
}
```

```dart
      body: Stack(
        children: [
          Container(
            decoration: BoxDecoration(
              gradient: LinearGradient(
                begin: Alignment.topCenter,
                end: Alignment.bottomCenter,
                colors: [
```

```dart
class AppTypography {
  static final TextStyle displayLarge = GoogleFonts.poppins(
    fontSize: 24,
    fontWeight: FontWeight.bold,
    letterSpacing: -0.3,
    color: Colors.white,
  );

  static final TextStyle titleMedium = GoogleFonts.poppins(
    fontSize: 16,
    fontWeight: FontWeight.w600,
    letterSpacing: -0.2,
    color: Colors.white,
  );

  static final TextStyle bodySmall = GoogleFonts.poppins(
    fontSize: 12,
    fontWeight: FontWeight.normal,
    letterSpacing: 0.1,
    color: Colors.grey[400],
  );
}

class HomeScreen extends StatelessWidget {
  const HomeScreen({Key? key}) : super(key: key);

  @override
  Widget build(BuildContext context) {
    return Scaffold(
```

```dart
      8),
                    decoration: BoxDecoration(
                      color: const Color(0xFF1DB954),
                      borderRadius: BorderRadius.circular(20),
                    ),
```

```dart
              Colors.black.withOpacity(0.8),
              Colors.black,
            ],
          ),
        ),
      ),
      SingleChildScrollView(
        child: SafeArea(
          child: Column(
            crossAxisAlignment:
CrossAxisAlignment.start,
            children: [
              Padding(
                padding: const
EdgeInsets.all(16.0),
                child: Row(
                  children: [
                    // Updated CircleAvatar
with specific size and styling
                    const CircleAvatar(
                      radius: 20,
                      backgroundColor:
Color(0xFF282828),
                      child: Icon(
                        Icons.person,
                        color: Colors.white,
                        size: 24,
                      ),
                    ),
                    const SizedBox(width: 16),
                    Container(
                      padding: const
EdgeInsets.symmetric(
                        horizontal: 16, vertical:
 child: const Text('Podcasts',
                        style: TextStyle(color:
Colors.white)),
                    ),
                  ],
                ),
              ),
              const PlaylistSection(
```
```dart
                    child: const Text('All',
                        style: TextStyle(color:
Colors.white)),
                  ),
                  const SizedBox(width: 8),
                  Container(
                    padding: const
EdgeInsets.symmetric(
                        horizontal: 16, vertical:
8),
                    decoration:
BoxDecoration(
                        color: const
Color(0xFF282828),
                        borderRadius:
BorderRadius.circular(20),
                    ),
                    child: const Text('Music',
                        style: TextStyle(color:
Colors.white)),
                  ),
                  const SizedBox(width: 8),
                  Container(
                    padding: const
EdgeInsets.symmetric(
                        horizontal: 16, vertical:
8),
                    decoration:
BoxDecoration(
                        color: const
Color(0xFF282828),
                        borderRadius:
BorderRadius.circular(20),
                    ),

                  SizedBox(width: 16),
                  MixCard(
                    title: 'Chill Mix',
                    subtitle: 'Kendrick Lamar,
The Weeknd, Future',
                    image:
'assets/images/chill.jpg',
```

```dart
            title: 'On Repeat',
            image:
'assets/images/on_repeat.jpg',
            isLarge: true,
          ),
          const PlaylistSection(
            title: 'Trending Now India',
            image:
'assets/images/trending_india.jpg',
            isLarge: true,
          ),
          const PlaylistSection(
            title: 'Liked Songs',
            image:
'assets/images/liked_songs.jpg',
            isLarge: true,
          ),
          const SectionTitle(title: 'Your
top mixes'),
          SingleChildScrollView(
            scrollDirection:
Axis.horizontal,
            padding: const
EdgeInsets.symmetric(horizontal: 16),
            child: Row(
              children: const [
                MixCard(
                  title: 'Arijit Singh Mix',
                  subtitle: 'Pritam,
Vishal-Shekhar and Atif Aslam',
                  image:
'assets/images/arijit.jpg',
                ),

const PlaylistSection({
    Key? key,
    required this.title,
    required this.image,
    this.isLarge = false,
}) : super(key: key);

  @override
```

```dart
                ),
                SizedBox(width: 16),
                MixCard(
                  title: 'R&B Mix',
                  subtitle: 'Kali Uchis,
SZA',
                  image:
'assets/images/rnb.jpg',
                ),
              ],
            ),
          ),
          const SizedBox(height: 100),
        ],
      ),
    ),
  ),
          const Positioned(
            left: 0,
            right: 0,
            bottom: 0,
            child: NowPlayingBar(),
          ),
        ],
      ),
    );
  }
}

class PlaylistSection extends
StatelessWidget {
  final String title;
  final String image;
  final bool isLarge;

                  size: 24,
                ),
                onPressed: () {},
              ),
            ),
          ),
        ],
      ),
```

```dart
  Widget build(BuildContext context) {
    return Padding(
      padding: const EdgeInsets.all(16.0),
      child: Row(
        children: [
          ClipRRect(
            borderRadius:
BorderRadius.circular(4),
            child: Image.asset(
              image,
              width: isLarge ? 80 : 60,
              height: isLarge ? 80 : 60,
              fit: BoxFit.cover,
            ),
          ),
          const SizedBox(width: 16),
          Expanded(
            child: Text(
              title,
              style:
AppTypography.titleMedium, // Updated
typography
              overflow: TextOverflow.ellipsis,
// Added overflow handling
              maxLines: 2,
            ),
          ),
          Material(
            color: Colors.transparent,
            child: IconButton(
              icon: const Icon(
                Icons.more_vert,
                color: Colors.white,

const SizedBox(height: 8),
        Text(
          title,
          style:
AppTypography.titleMedium, // Updated
typography
          overflow: TextOverflow.ellipsis, //
Added overflow handling
    );
  }
}

class MixCard extends StatelessWidget {
  final String title;
  final String subtitle;
  final String image;

  const MixCard({
    Key? key,
    required this.title,
    required this.subtitle,
    required this.image,
  }) : super(key: key);

  @override
  Widget build(BuildContext context) {
    return SizedBox(
      width: 160,
      child: Column(
        crossAxisAlignment:
CrossAxisAlignment.start,
        children: [
          ClipRRect(
            borderRadius:
BorderRadius.circular(4),
            child: Image.asset(
              image,
              width: 160,
              height: 160,
              fit: BoxFit.cover,
            ),
          ),
                width: 40,
            height: 40,
            fit: BoxFit.cover,
          ),
        ),
        const SizedBox(width: 12),
        Expanded(
          child: Column(
```

```dart
        maxLines: 1,
      ),
      const SizedBox(height: 4),
      Text(
        subtitle,
        style: AppTypography.bodySmall,
// Updated typography
        overflow: TextOverflow.ellipsis, //
Added overflow handling
        maxLines: 2,
      ),
    ],
  ),
 );
 }
}

class NowPlayingBar extends
StatelessWidget {
 const NowPlayingBar({Key? key}) :
super(key: key);

 @override
 Widget build(BuildContext context) {
  return Container(
    color: const Color(0xFF282828),
    padding: const EdgeInsets.all(8),
    child: Row(
      children: [
        ClipRRect(
          borderRadius:
BorderRadius.circular(4),
          child: Image.asset(
            'assets/images/perfect_1d.jpg',
  ),
        Material(
          color: Colors.transparent,
          child: IconButton(
            icon: const Icon(
              Icons.favorite_border,
              color: Colors.white,
              size: 24,

          crossAxisAlignment:
CrossAxisAlignment.start,
          mainAxisSize:
MainAxisSize.min,
          children: [
            Text(
              'Perfect',
              style:
AppTypography.titleMedium, // Updated
typography
              overflow:
TextOverflow.ellipsis,
            ),
            Text(
              'One Direction',
              style:
AppTypography.bodySmall, // Updated
typography
              overflow:
TextOverflow.ellipsis,
            ),
          ],
        ),
      ),
      Material(
        color: Colors.transparent,
        child: IconButton(
          icon: const Icon(
            Icons.devices_outlined,
            color: Colors.white,
            size: 24,
          ),
          onPressed: () {},
        ),
      ),
        style:
AppTypography.displayLarge, // Updated
typography
      ),
    );
  }
}
```

```dart
          ),
            onPressed: () {},
          ),
        ),
        Material(
          color: Colors.transparent,
          child: IconButton(
            iconSize: 32,
            icon: const Icon(
              Icons.play_circle_filled,
              color: Colors.white,
            ),
            onPressed: () {},
          ),
        ),
      ],
    ),
  );
  }
}

class SectionTitle extends StatelessWidget
{
  final String title;

  const SectionTitle({Key? key, required
this.title}) : super(key: key);

  @override
  Widget build(BuildContext context) {
    return Padding(
      padding: const EdgeInsets.all(16.0),
      child: Text(
        Title,
```

Search_screen.dart
```dart
import 'package:flutter/material.dart';
import
'package:flutter_riverpod/flutter_riverpod.
dart';
import
'package:spotify_clone/models/search_res
ult.dart';
```

```dart
Future<void> _performSearch(String
query) async {
    if (query.isEmpty) return;

    setState(() {
      _isLoading = true;
    });
```

```dart
import
'package:spotify_clone/services/youtube_s
ervice.dart';
import
'package:spotify_clone/providers/audio_pr
ovider.dart';
import
'package:spotify_clone/services/youtube_e
xplode_service.dart';

final youtubeServiceProvider =
Provider((ref) => YouTubeService());
final audioPlayerProvider =
StateNotifierProvider<AudioPlayerNotifie
r, AudioPlayerState>((ref) =>
AudioPlayerNotifier());

class SearchScreen extends
ConsumerStatefulWidget {
  const SearchScreen({Key? key}) :
super(key: key);

  @override
  ConsumerState<SearchScreen>
createState() => _SearchScreenState();
}

class _SearchScreenState extends
ConsumerState<SearchScreen> {
  final TextEditingController
_searchController =
TextEditingController();
  List<SearchResult> _searchResults = [];
  bool _isLoading = false;

      body: SafeArea(
      child: Column(
        children: [
          Padding(
            padding: const
EdgeInsets.all(16.0),
              child: TextField(

    final youtubeService =
ref.read(youtubeServiceProvider);
    final results = await
youtubeService.searchSongs(query);

    setState(() {
      _searchResults = results;
      _isLoading = false;
    });
  }

  Future<void> _playSong(SearchResult
song) async {
    final youtubeService =
ref.read(youtubeServiceProvider);
    final audioUrl = await
youtubeService.getAudioUrl(song.id);

    if (audioUrl != null) {
      await
ref.read(audioPlayerProvider.notifier).play
Song(audioUrl, song);
    }
  }

  @override
  Widget build(BuildContext context) {
    final audioState =
ref.watch(audioPlayerProvider);

    return Scaffold(
      backgroundColor: const
Color(0xFF1C1B1B),

_searchResults[index];
            final isPlaying =
audioState.currentSong?.id == song.id;

            return ListTile(
              leading:
Image.network(song.thumbnail),
                title: Text(
```

```dart
          controller: _searchController,
          style: const TextStyle(color:
Colors.white),
          decoration: InputDecoration(
            hintText: 'Search for songs...',
            hintStyle: const
TextStyle(color: Colors.grey),
            filled: true,
            fillColor:
Colors.grey.withOpacity(0.1),
            border: OutlineInputBorder(
              borderRadius:
BorderRadius.circular(12),
              borderSide: BorderSide.none,
            ),
            suffixIcon: IconButton(
              icon: const Icon(Icons.search,
color: Colors.grey),
              onPressed: () =>
_performSearch(_searchController.text),
            ),
          ),
          onSubmitted: _performSearch,
        ),
      ),
      if (_isLoading)
        const CircularProgressIndicator()
      else
        Expanded(
          child: ListView.builder(
            itemCount:
_searchResults.length,
            itemBuilder: (context, index) {
              final song =
EdgeInsets.all(16),
          color: Colors.black,
          child: Row(
            children: [
              Image.network(

audioState.currentSong!.thumbnail,
                height: 50,
                song.title,
                style: const
TextStyle(color: Colors.white),
              ),
              subtitle: Text(
                song.channelTitle,
                style: const
TextStyle(color: Colors.grey),
              ),
              trailing: IconButton(
                icon: Icon(
                  isPlaying &&
audioState.isPlaying
                      ? Icons.pause
                      : Icons.play_arrow,
                  color: Colors.white,
                ),
                onPressed: () {
                  if (isPlaying) {

ref.read(audioPlayerProvider.notifier).togg
lePlay();
                  } else {
                    _playSong(song);
                  }
                },
              ),
            );
          },
        ),
      ),
      if (audioState.currentSong != null)
        Container(
          padding: const
lePlay();
                },
              ),
            ],
          ),
        ),
      ],
    ),
```

```dart
        ),                                          ),
      const SizedBox(width: 16),          );
      Expanded(                              }
        child: Column(                      }
          crossAxisAlignment:
CrossAxisAlignment.start,
            children: [
              Text(

audioState.currentSong!.title,
                style: const
TextStyle(color: Colors.white),
                maxLines: 1,
                overflow:
TextOverflow.ellipsis,
              ),
              Text(

audioState.currentSong!.channelTitle,
                style: const
TextStyle(color: Colors.grey),
              ),
            ],
          ),
        ),
        IconButton(
          icon: Icon(
            audioState.isPlaying ?
Icons.pause : Icons.play_arrow,
            color: Colors.white,
          ),
          onPressed: () {

ref.read(audioPlayerProvider.notifier).togg
```

OUTPUT:

Firstly the user will be met with the splash page

After that, the register or sign in page will appear
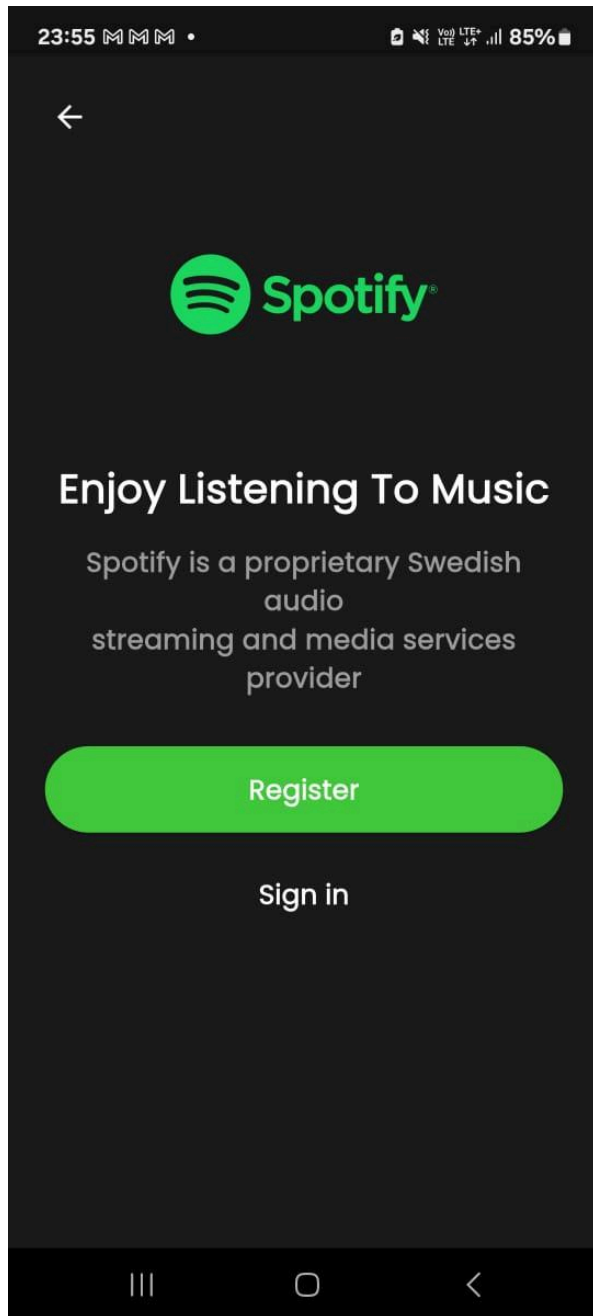
From here, the user can further navigate to either the register or sign in page

(Register)
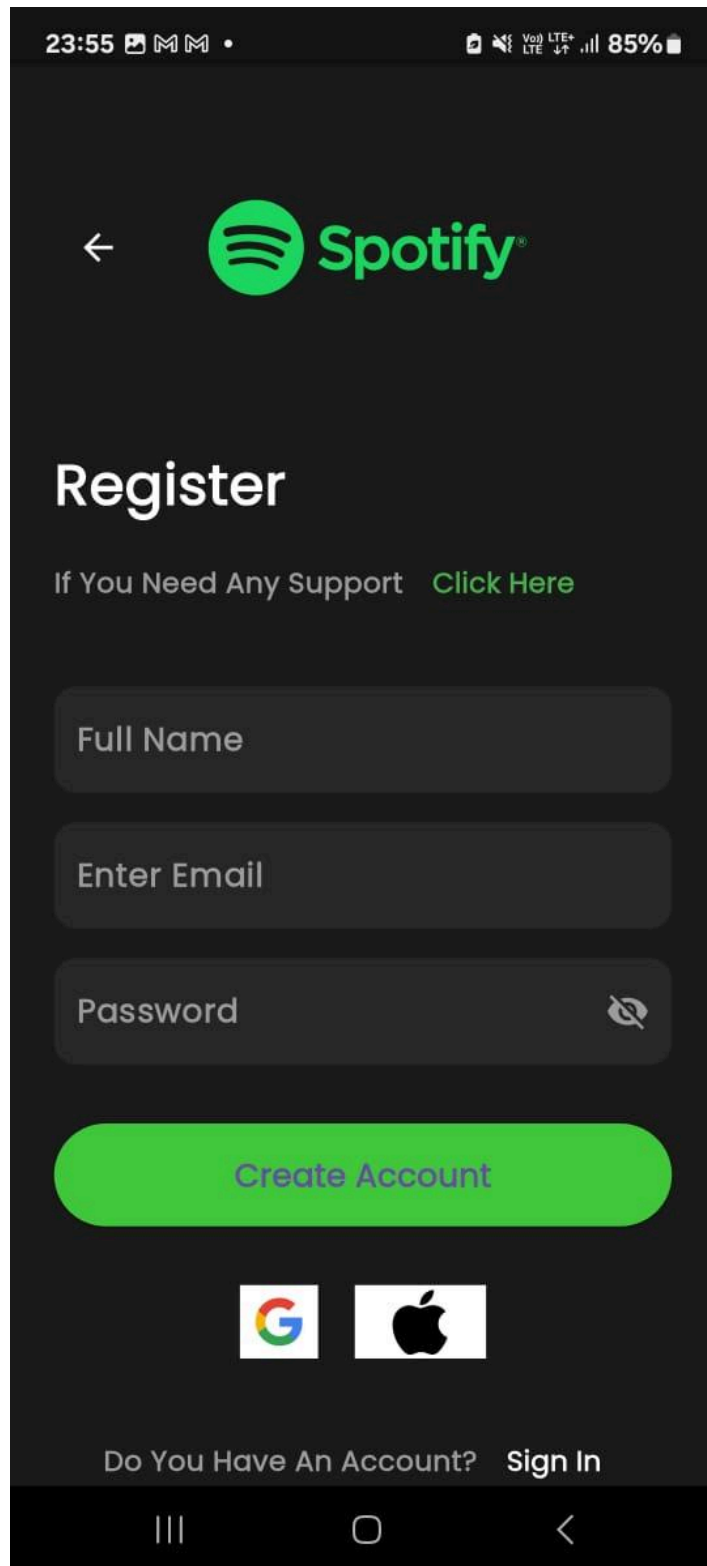
Register

If You Need Any Support   Click Here

Full Name

Enter Email

Password

Create Account

Do You Have An Account?   Sign In

Sign_in page
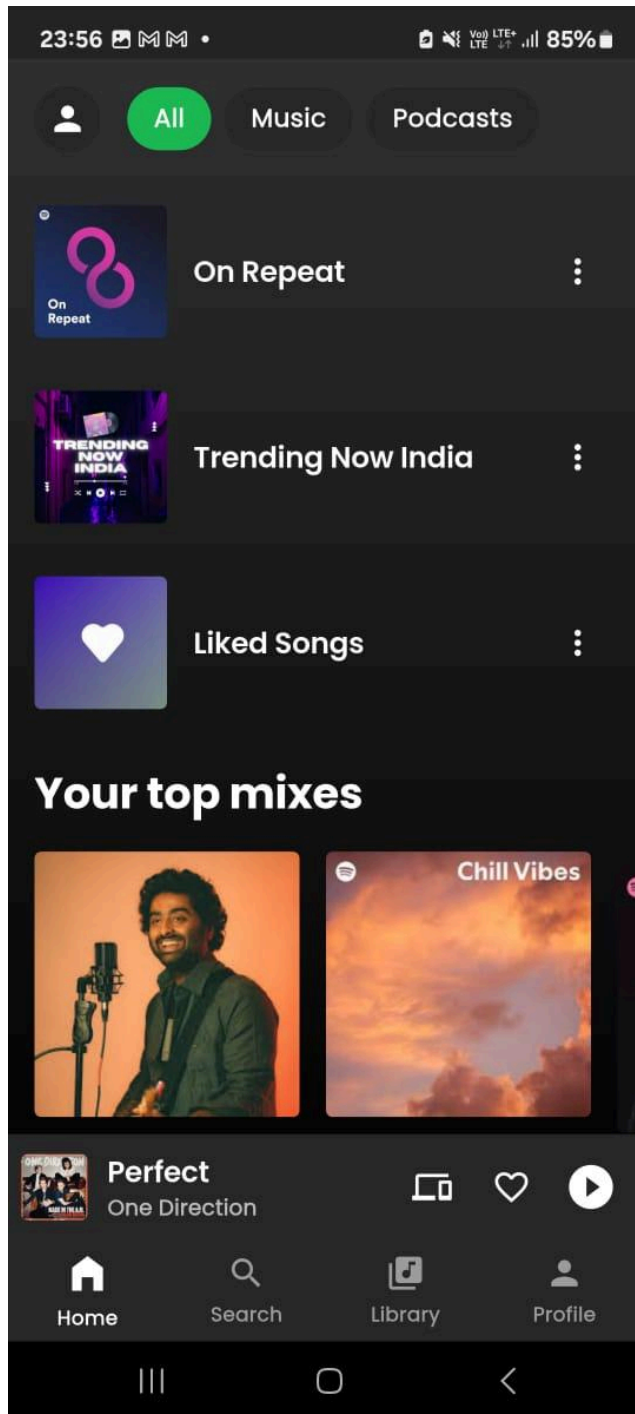
After registering/signup, the user will be navigated to the main home screen of the app

Home_page.dart

Further here we have used bottom navigation to switch between home,search and profile screens

Search_page.dart