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09

MAD PWA LAB

EXPT - 3

Aim: To include icons,images and fonts in flutter app.

Theory:

Overall Design Philosophy:
- User-Centric Design: Prioritize user experience by making navigation intuitive and content easily accessible.
- Consistent Branding: Use consistent colors, fonts, and styling to create a cohesive and branded look.
- Visual Hierarchy: Arrange elements in a way that guides the user's attention from most important to least important.

AppBar and Logo:
- Logo Placement: Position the logo prominently at the top, ensuring it's recognizable and reinforces the app's identity.
- AppBar Styling: Consider using a custom AppBar with a clean design that complements the overall aesthetic.

Song and Artist Images:
- Image Grid: Organize song and artist images in a visually appealing grid, creating a sense of order and simplicity.
- Image Quality: Ensure high-quality images for songs and artists, optimizing them for different screen sizes and resolutions.
- Consistent Sizing: Maintain consistency in image sizes for a polished and professional appearance.

Bottom Navigation Bar:
- Iconography: Use clear and recognizable icons for home, search, and playlist, ensuring users easily understand their purpose.
- Active State Indicator: Highlight the active page with a distinct indicator to provide visual feedback to users.
- Navigation Logic: Implement navigation logic to switch between different sections seamlessly.

Color Scheme:

- Theme Colors: Choose a color scheme that aligns with the app's branding and creates a visually pleasing atmosphere.
- It is Black and Red.
- Contrast and Readability: Ensure sufficient contrast between text and background colors for optimal readability.

CODE:

```dart
import 'package:flutter/material.dart';
import 'search_screen.dart'; // Import the SearchScreen
import 'song_details_screen.dart'; // Import the SongDetailsScreen

class HomeScreen extends StatelessWidget {
 @override
 Widget build(BuildContext context) {
  return Scaffold(
   appBar: AppBar(
    title: Text(
     'YouTube Music',
     style: TextStyle(color: Colors.red, fontSize: 34),
    ),
    centerTitle: true,
    backgroundColor: Colors.black,
   ),
   body: SingleChildScrollView(
    child: Padding(
     padding: const EdgeInsets.all(16.0),
     child: Column(
      crossAxisAlignment: CrossAxisAlignment.start,
      children: [
       Center(
        child: Text(
         'Welcome to YouTube Music!',
         style: TextStyle(fontSize: 24, fontWeight: FontWeight.bold, color: Colors.pink),
        ),
       ),
       SizedBox(height: 10),
       Image.asset(
        'assets/welcome_image.png',
        height: 240,
        width: double.infinity,
        fit: BoxFit.cover,
       ),
```

```dart
            SizedBox(height: 20),
            Text(
              'Suggested Songs:',
              style: TextStyle(fontSize: 18, fontWeight: FontWeight.bold, color: Colors.white),
            ),
            SizedBox(height: 25),
            Row(
              mainAxisAlignment: MainAxisAlignment.spaceBetween,
              children: [
                _buildSuggestedItem(context, 'Alone', 'assets/song1.png'),
                _buildSuggestedItem(context, 'Kesariya', 'assets/song2.png'),
                _buildSuggestedItem(context, 'We own it', 'assets/song3.png'),
              ],
            ),
            SizedBox(height: 20),
            Text(
              'Suggested Artists:',
              style: TextStyle(fontSize: 18, fontWeight: FontWeight.bold, color: Colors.white),
            ),
            SizedBox(height: 25),
            Row(
              mainAxisAlignment: MainAxisAlignment.spaceBetween,
              children: [
                _buildSuggestedItem(context, 'Eminem', 'assets/eminem.png'),
                _buildSuggestedItem(context, 'Arjit Singh', 'assets/arjit.png'),
                _buildSuggestedItem(context, 'Selena Gomez', 'assets/selena.png'),
              ],
            ),
          ],
        ),
      ),
    ),
    bottomNavigationBar: BottomNavigationBar(
      items: [
        BottomNavigationBarItem(
          icon: GestureDetector(
            onTap: () {
              // Navigate to HomeScreen (Optional)
            },
            child: Image.asset('assets/home.png', height: 24, width: 24, color: Colors.red),
          ),
          label: 'Home',
        ),
        BottomNavigationBarItem(
```

```dart
            icon: GestureDetector(
              onTap: () {
                Navigator.push(context, MaterialPageRoute(builder: (context) => SearchScreen()));
              },
              child: Image.asset('assets/search.png', height: 24, width: 24, color: Colors.grey),
            ),
            label: 'Search',
          ),
          BottomNavigationBarItem(
            icon: Image.asset('assets/playlist.png', height: 24, width: 24, color: Colors.grey),
            label: 'Library',
          ),
        ],
        backgroundColor: Colors.deepPurple,
        selectedItemColor: Colors.red,
        unselectedItemColor: Colors.grey,
      ),
    );
}

Widget _buildSuggestedItem(BuildContext context, String name, String imagePath) {
  return GestureDetector(
    onTap: () {
      // Navigate to SongDetailsScreen when the image is tapped
      Navigator.push(
        context,
        MaterialPageRoute(
          builder: (context) => SongDetailsScreen(songTitle: name, songImagePath: imagePath),
        ),
      );
    },
    child: Column(
      children: [
        Image.asset(
          imagePath,
          height: 80,
          width: 80,
          fit: BoxFit.cover,
        ),
        SizedBox(height: 5),
        Text(
          name,
          style: TextStyle(color: Colors.white),
        ),
```
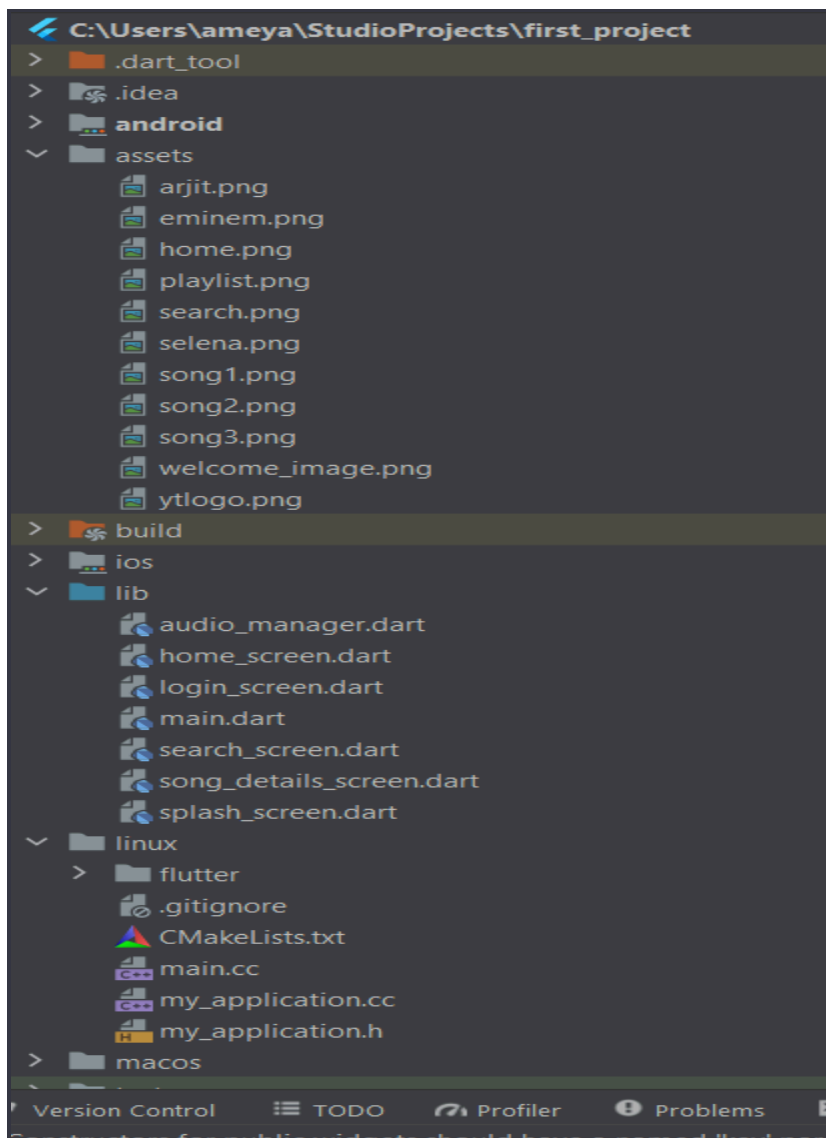
```
        ],
      ),
    );
  }
}
```

ASSETS:

-assets/ytlogo.png

-assets/song1.png

-assets/song2.png

-assets/song3.png

-assets/selena.png

-assets/arjit.png

FILE STRUCTURE:

OUTPUT:

```dart
import 'package:flutter/material.dart';
import 'search_screen.dart'; // Import the SearchScreen


class HomeScreen extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text(
          'YouTube Music',
          style: TextStyle(color: Colors.red, fontSize: 34),
        ),  // Text
        centerTitle: true,
        backgroundColor: Colors.black,
      ),  // AppBar
      body: SingleChildScrollView(
        child: Padding(
          padding: const EdgeInsets.all(16.0),
          child: Column(
            crossAxisAlignment: CrossAxisAlignment.start,
            children: [
              Center(
                child: Text(
                  'Welcome to YouTube Music!',
                  style: TextStyle(fontSize: 24, fontWeight: FontWeight.bold, color: Colors.pink),
                ),  // Text
              ),  // Center
              SizedBox(height: 10),
              Image.asset(
```

YouTube Music

Welcome to YouTube Music!

Suggested Songs:

Alone   Kesariya   We own it

Suggested Artists:

ARIJIT SINGH

Home   Search   Library