Experiment 3

- Aim:- To include icons, images, fonts in Flutter app
- Theory:-

The main goal of this experiment is to successfully incorporate icons, images, and fonts into the Flutter clone app, ensuring proper visibility and seamless integration within the UI.

Implementation Steps

- 1. Adding Icons:
 - Used Icons class for default Material icons.
 - Added the cupertino_icons package for additional icon support.
 - Ensured icons were placed correctly within buttons, navigation bars, and other UI components.
- 2. Adding Images:
 - Initially faced issues where network images failed to load due to HTTP request errors.
 - Resolved the issue by using a different image source such as Pexels or Unsplash with proper URLs.
 - Ensured visibility by debugging asset paths and network permissions.
- 3. Adding Fonts:
 - Custom fonts were defined in the pubspec.yaml file.
 - Applied different fonts in the TextStyle property of text widgets.
 - Ensured proper rendering by verifying font files and YAML indentation.

Challenges and Solutions

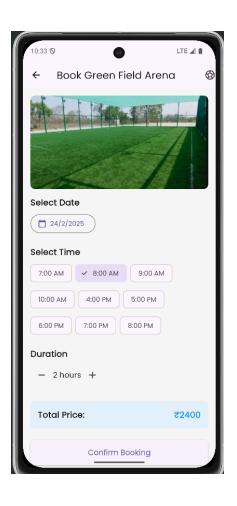
- Issue: Images not loading (HTTP request failure).
 Solution: Switched to alternative image sources like Unsplash and checked network permissions in AndroidManifest.xml.
- Issue: Icons not appearing.
 Solution: Verified dependencies and used the correct package import for Cupertino icons.
- Issue: Fonts not rendering properly.
 Solution: Checked YAML formatting, ensured font files were in the correct directory, and refreshed dependencies.

Code:-

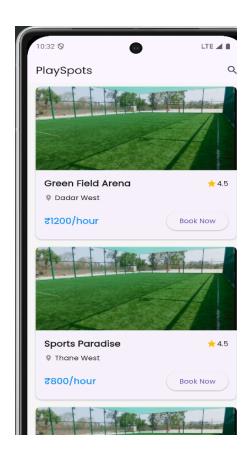
```
import 'package:flutter/material.dart';
import '../widgets/turf_card.dart';
import 'booking_screen.dart';
class HomeScreen extends StatelessWidget {
 final List<Map<String, String>> turfs = [
  {
    'name': 'Green Field Arena',
    'location': 'Dadar West',
    'price': '1200',
   'imagePath': 'assets/img.png', // Added image path
  },
  {
    'name': 'Sports Paradise',
    'location': 'Thane West',
    'price': '800',
    'imagePath': 'assets/turf1.png', // Added image path
  },
  {
    'name': 'Football Ground',
    'location': 'Andheri',
    'price': '1000',
    'imagePath': 'assets/turf2.png', // Added image path
```

```
},
];
@override
Widget build(BuildContext context) {
 return Scaffold(
  appBar: AppBar(
    title: Text('PlaySpots'),
    actions: [
     IconButton(
      icon: lcon(lcons.search),
      onPressed: () {},
     ),
   ],
  ),
  body: ListView.builder(
    itemCount: turfs.length,
    itemBuilder: (context, index) {
     final turf = turfs[index];
     return TurfCard(
      name: turf['name']!,
      location: turf['location']!,
      price: turf['price']!,
      imagePath: turf['imagePath']!, // Pass the image path here
```

Output:-







• Conclusion:-

This experiment demonstrated how to effectively integrate icons, images, and fonts in a Flutter application. By handling network image loading errors, ensuring asset accessibility, and properly configuring fonts, we improved the UI/UX of the clone app. The enhancements made the application visually appealing and functional, aligning with modern mobile app design standards.