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Experiment 3: Include Icons and Images to Flutter App

Aim:

To understand how to integrate icons and images into a Flutter application and utilize them effectively to enhance the user interface.

Theory:

Icons and images are essential elements in mobile app development that contribute to the visual appeal and functionality of the user interface.

Icons:

- Icons are small graphical representations used to convey actions, features, or information visually.
- Flutter provides a wide range of built-in icons that can be easily integrated into the app using the Icon widget.
- Icons can be customized with various properties such as size, color, and alignment.

Images:

- Images are visual assets that can be used to represent graphics, logos, illustrations, or other visual elements in the app.
- Flutter supports various image formats such as PNG, JPEG, GIF, WebP, etc.
- Images can be loaded into Flutter applications using the Image widget, specifying the source of the image (asset, network, file, etc.).
- Flutter also provides advanced features for caching, resizing, and displaying images efficiently.

Code:

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

void main() {
   runApp(FootballTournamentApp());
}

class FootballTournamentApp extends StatelessWidget {
   @override
   Widget build(BuildContext context) {
```

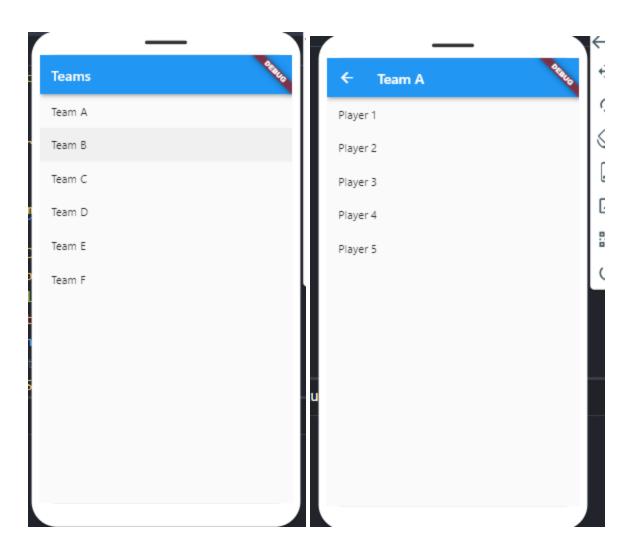
```
return MaterialApp(
     title: 'Football Tournament',
     theme: ThemeData(
      primarySwatch: Colors.blue,
     ),
     home: TeamListScreen(),
class TeamListScreen extends StatelessWidget {
 final List<String> teams = [
   'Team A',
   'Team B',
   'Team C',
   'Team D',
   'Team E',
   'Team F',
 ];
 Widget build(BuildContext context) {
   return Scaffold(
     appBar: AppBar(
     ),
     body: ListView.builder(
         return ListTile(
           title: Text(teams[index]),
           onTap: () {
             Navigator.push(
```

return [];

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```
@override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(
        title: Text(teamName),
    ),
    body: ListView.builder(
        itemCount: players.length,
        itemBuilder: (context, index) {
        return ListTile(
            title: Text(players[index]),
            );
        },
        ),
     );
    },
    ),
};
```

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Conclusion:

This experiment illustrates how icons and images can be effectively incorporated to provide a more engaging user experience, reinforcing the app's branding and conveying essential information efficiently. Going forward, optimizing image assets and leveraging custom icons can further refine the app's aesthetics and usability.