MPL Experiment-3
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D15A 29

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

CODE:-
explore.dart

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

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

  @override
  State<ExploreScreen> createState() => _ExploreScreenState();
}

class _ExploreScreenState extends State<ExploreScreen> {
  final List<String> _imageUrls = [
    'images/post.jpg',
    'images/post2.jpg',
    'images/car.png',
    'images/cat.png',
    'images/elon.png',
    'images/house.png',
    'images/post.jpg',
    'images/sky.png',
  ];

  // Add a TextEditingController for the search bar
  final TextEditingController _searchController = TextEditingController();

  // Add a filtered list of image URLs
  List<String> _filteredImageUrls = [];

  @override
  void initState() {
```

```dart
    super.initState();
    _filteredImageUrls = _imageUrls; // Initialize with all images
  }

  void _filterImages(String query) {
    setState(() {
      if (query.isEmpty) {
        _filteredImageUrls = _imageUrls; // Show all images if search is
empty
      } else {
        _filteredImageUrls = _imageUrls
            .where((imageUrl) =>
                imageUrl.toLowerCase().contains(query.toLowerCase()))
            .toList();
      }
    });
  }

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.white,
      appBar: AppBar(
        backgroundColor: Colors.white,
        elevation: 0,
        title: const Text('Explore',
            style: TextStyle(color: Colors.black, fontFamily:
'SFProText')),
        bottom: PreferredSize(
          // Add a search bar below the app bar
          preferredSize: const Size.fromHeight(60.0),
          child: Padding(
            padding: const EdgeInsets.all(8.0),
            child: TextField(
              controller: _searchController,
              onChanged: _filterImages, // Filter images on text change
              decoration: InputDecoration(
                hintText: 'Search',
                prefixIcon: const Icon(Icons.search),
                border: OutlineInputBorder(
```

```dart
                    borderRadius: BorderRadius.circular(10.0),
                  ),
                ),
              ),
            ),
          ),
        ),
      body: Padding(
        padding: const EdgeInsets.all(8.0),
        child: MasonryGridView.count(
          crossAxisCount: 3,
          mainAxisSpacing: 8.0,
          crossAxisSpacing: 8.0,
          itemCount: _filteredImageUrls.length, // Use the filtered list
          itemBuilder: (context, index) {
            return ClipRRect(
              borderRadius: BorderRadius.circular(8.0),
              child: Image.asset(
                _filteredImageUrls[index], // Use the filtered list
                fit: BoxFit.cover,
              ),
            );
          },
        ),
      ),
    );
  }
}
```
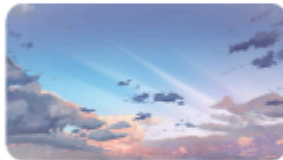
OUTPUT:-