Cách sử dụng các tệp

1. Tạo dự án Flutter mới: flutter create photo\_search
2. Thay thế thư mục lib / và tệp pubspec.yaml bằng các tệp đính kèm
3. Có thể them hình ảnh, font chữ
4. Chạy lệnh: flutter packages get
5. flutter run (với trình giả lập đang chạy hoặc thiết bị thực được kết nối với máy) để xem ứng dụng

1. Tạo file các folder: screens, datamodels nằm trong folder lib

2. Tạo folder views tong folder screens, tạo các folder home và picture trong folder views.

3. Tạo Photo.dart trong folder datamodels

class Photo {

  String id, secret, server, title;

  int farm;

  Photo.fromMap(Map snapshot) {

    this.id = snapshot['id'];

    this.secret = snapshot['secret'];

    this.server = snapshot['server'];

    this.farm = snapshot['farm'];

    this.title = snapshot['title'];

  }

  urlString() {

    return 'https://farm$farm.staticflickr.com/$server/$id\\_$secret.jpg';

  }

}

4. Tạo file FlickrPhoto.dart trong folder datamodels

import 'Photo.dart';

class FlickrPhoto {

  int page, pages;

  List<Photo> photo;

  FlickrPhoto.fromMap(Map snapshot) {

    this.page = snapshot['page'];

    this.pages = snapshot['pages'];

    List photoMap = snapshot['photo'];

    this.photo = photoMap.map((t) => Photo.fromMap(t)).toList();

  }

}

5. Tạo file home\_viewmodel.dart trong folder home

import 'package:flutter/material.dart';

import 'package:photo\_search/screens/views/picture/pic\_view.dart';

import 'package:stacked/stacked.dart';

class HomeViewModel extends BaseViewModel{

  String \_value = "";

  String get value => \_value;

  void updateValue(value) {

    \_value = value;

    notifyListeners();

  }

  void navigationToView(context){

    if(\_value != "")

      Navigator.push( context, MaterialPageRoute( builder: (context) => PhotoListView(keyword: \_value,), ));

  }

}

6. Tạo file home\_view.dart trong folder home

import 'package:flutter/material.dart';

import 'package:stacked/stacked.dart';

import 'home\_viewmodel.dart';

class HomeView extends StatelessWidget {

  @override

  Widget build(BuildContext context) {

    return ViewModelBuilder.reactive(

        builder: (context, HomeViewModel model, child) {

          return Scaffold(

              appBar: AppBar(

                title: Text('Photo search view'),

              ),

              body: Container(

                  child: Column(

                mainAxisAlignment: MainAxisAlignment.center,

                children: <Widget>[

                  Container(

                    child: Center(

                      child: Text(

                        'Photo Browser',

                        style: TextStyle(

                          color: Colors.blue,

                          fontSize: 34.0,

                          fontWeight: FontWeight.bold,

                        ),

                      ),

                    ),

                  ),

                  TextField(

                    decoration:

                        InputDecoration(hintText: 'Enter a search term'),

                    onChanged: (text) => model.updateValue(text),

                  ),

                  RaisedButton(

                    child: Icon(Icons.search),

                    onPressed: () => model.navigationToView(context),

                  ),

                ],

              )

            )

          );

        },

        viewModelBuilder: () => HomeViewModel());

  }

}

7. Tạo file pic\_viewmodel.dart trong folder picture

import 'dart:convert';

import 'package:photo\_search/datamodels/FlickrPhoto.dart';

import 'package:stacked/stacked.dart';

import 'package:http/http.dart' as http;

import 'dart:async';

class PhotoViewModel extends BaseViewModel{

  String \_keyword = "";

  FlickrPhoto \_flickrPhoto;

  Map<String, dynamic> \_res;

  bool \_hasData = false;

  String get keyword => \_keyword;

  Map get res => \_res;

  FlickrPhoto get flickrPhoto => \_flickrPhoto;

  bool get hasData => \_hasData;

  void updateKeyword(value) {

    \_keyword = value;

    notifyListeners();

  }

  Future<void> getPhotoByKeyword(value) async {

    this.updateKeyword(value);

    var client = http.Client();

    String url = "https://www.flickr.com/services/rest/?method=flickr.photos.search&api\_key=bed6678fa4dd799882101ebddc0e74ac&text=$\_keyword&format=json&nojsoncallback=1";

    var response = await client.get(url);

    if(response.statusCode == 200){

      \_res = json.decode(response.body);

      if(int.parse(\_res['photos']['total']) > 0){

        \_flickrPhoto = FlickrPhoto.fromMap(\_res['photos']);

        \_hasData = true;

      }

    }

    print(\_res['photos']);

    notifyListeners();

  }

}

8. Tạo pic\_view.dart trong file picture

import 'package:flutter/material.dart';

import 'package:stacked/stacked.dart';

import 'pic\_viewmodel.dart';

class PhotoListView extends StatefulWidget {

  final String keyword;

  PhotoListView({Key key, @required this.keyword}) : super(key: key);

  @override

  \_PhotoListViewState createState() => \_PhotoListViewState(keyword: keyword);

}

class \_PhotoListViewState extends State<PhotoListView> {

  final String keyword;

  \_PhotoListViewState({Key key, @required this.keyword});

  @override

  initState() {

    super.initState();

    // model

  }

  @override

  Widget build(BuildContext context) {

    return ViewModelBuilder.reactive(

      onModelReady: (model) => model.getPhotoByKeyword(keyword),

      builder: (context, PhotoViewModel model, child) {

        return Scaffold(

          appBar: AppBar(

            title: Text('Từ khóa tìm kiếm: $keyword'),

          ),

          // body: Text(model.res)

          body: (model.hasData) ? GridView.count(

          crossAxisCount: 3,

          children: model.flickrPhoto.photo

              .map((p) => Center(child: Image.network(p.urlString())))

              .toList())

              :Center(

                child: Text('Không có dữ liệu',

                  style: TextStyle(

                    color: Colors.blue,

                    fontSize: 34.0,

                    fontWeight: FontWeight.bold,

                  ),),

              ),

        );

      },

      viewModelBuilder: () => PhotoViewModel()

    );

  }

}

9. Sửa file main

import 'package:flutter/material.dart';

import 'package:photo\_search/screens/views/home/home\_view.dart';

void main() {

  runApp(MyApp());

}

class MyApp extends StatelessWidget {

  @override

  Widget build(BuildContext context) {

    return MaterialApp(

      title: 'Photo search view',

      home: HomeView(),

    );

  }

}

10. Kết quả

