

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 thêm 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 trong 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







