

Flutter 打包脚本 一键上传到蒲公英



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flutter 最近比较火, 那么如何一下打包并且上传到第三方平台呢? 我们选择蒲公英平台俩写一下 **python** 脚本。

```
#!/usr/bin/python3
# -*- coding: utf-8 -*-
# @Time      : 2020-08-04 15:19
# @Site      : http://fgyong.cn 兜兜转转的技术博客
# @File      : upload.py
# @Software: PyCharm
# 使用本脚本需要将脚本移动至Flutter项目根项目层级
#
import requests
import os
import getopt
import sys
from enum import Enum
from requests_toolbelt.multipart import encoder

# 检查第三方包是否安装
def check_requirement(package):
    try:
        exec("import {}".format(package))
    except ModuleNotFoundError:
        inquiry = input("This script requires {}. Do you want to install {}? [y/n]".format(package))
        while (inquiry != "y") and (inquiry != "n") and (inquiry != "N") and (inquiry != "Y") :
            inquiry = input("This script requires {}. Do you want to install {}? [y/n]".format(package))
        if inquiry == "y" or inquiry == "Y":
            import os
            print("Execute commands: pip install {}".format(package))
            if int(sys.version.split('.')[0])==2:
                os.system("pip install {}".format(package))
            elif int(sys.version.split('.')[0])==3:
                os.system("pip3 install {}".format(package))
            else:
                print("{} is missing, so the program exits!".format(package))
                exit(-1)

# 编译类型
class BuildMode(Enum):
    all=0
    debug = 1
    release =2
    @staticmethod
    def load(value):
        if value == 0:
            return BuildMode.all
        elif value == 1:
            return BuildMode.debug
        elif value ==2:
            return BuildMode.release

# 上传类型
class UploadMode(Enum):
    all = 0
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apk = 1
ipa = 2
@staticmethod
def load(value):
    if value == 0:
        return UploadMode.all
    elif value == 1:
        return UploadMode.apk
    elif value ==2:
        return UploadMode.ipa
# 编译类别 安卓还是ios
class BuildType(Enum):
    all = 0
    apk = 1
    ipa = 2
    @staticmethod
    def load(value):
        if value == 1:
            return BuildType.apk
        elif value == 2:
            return BuildType.ipa
        elif value ==0:
            return BuildType.all

class Runner:
    buildMode = BuildMode.release
    uploadMode = None
    buildType = None
    fileLength=1
    currentPath=''

    def main(self,argv):
        try:
            ops,args = getopt.getopt(argv, '-h-b:-u:-t:', ['help', 'build=', 'upload=', 'type='])
        except getopt.GetoptError:
            sys.exit()
        count = 0
        for op,value in ops:
            if op in ('-h', '--help'):
                count +=1
                self.pHelp()
                return
            elif op in ('-u', '--upload'):
                count += 1
                if ['all', 'apk', 'ipa'].__contains__(value) ==False:
                    self.pHelp()
                else:
                    self.uploadMode=UploadMode(['all', 'apk', 'ipa'].index(value))
            elif op in('-b', '--build'):
                count += 1
                # self.p('-b:{0}'.format(value))
                if ['all', 'debug', 'release'].__contains__(value)==False:
                    self.pHelp()
                else:
                    self.buildMode=BuildMode.load(['all', 'debug', 'release'].index(value))
            elif op in('-t', '--type'):
                count += 1
                # self.p('-t:{0}'.format(value))
                if ['all', 'apk', 'ipa'].__contains__(value)==False:
                    self.pHelp()
                else:
                    self.buildType=BuildType.load(['all', 'apk', 'ipa'].index(value))
        if count ==0:
            self.pHelp()
            return
        else:
            if not self.buildType:
                self.p('\n 请输入 -b buildType 参数 \n')
                self.pHelp()
                return
            if not self.uploadMode:
                self.p('\n 请输入 -u uploadMode 参数 \n')
                self.pHelp()
                return

        self.p('{0}{1}{2}'.format(self.buildMode, self.buildType,self.uploadMode))
        # 开始编译和上传ipa
        self.currentPath = os.getcwd()
        self.build()
        self.upload()

    def p(self,str):
        # 结束标示: \n\033[0m

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print('\033[0;35;48m '+str+'')

def pHelp(self):
    self.p('-h --help 获取帮助信息')
    self.p('-b --build 编译模式[release(default),debug,all]')
    self.p('-u --upload 上传模式[all,apk,ipa]')
    self.p('-t --type 编译种类[all,apk,ipa]')

def buildAPK(self):
    try:
        if self.buildMode==BuildMode.release :
            os.system('flutter --no-color build apk'),
        if self.buildMode==BuildMode.debug :
            os.system('flutter --no-color build apk --debug'),
    except KeyError as e:
        print(e)

def buildIPA(self,):
    try:
        if self.buildMode==BuildMode.release:
            os.system('flutter --no-color build ios --release'),
            os.chdir(self.currentPath+'/ios')
            plus='agvtool next-version -all'
            arch = 'xcodebuild -workspace Runner.xcworkspace -scheme Runner archive -archivePath ./build/ios/Runner.xcarchive -exportArchive -exportOptionsDict { "stripSymbols": true }'
            export = 'xcodebuild -exportArchive -archivePath $PWD/build/Runner.xcarchive -exportOptionsDict { "stripSymbols": true }'
            os.system(arch)
            os.system(plus)
            os.system(export)

        elif self.buildMode==BuildMode.debug:
            os.system('flutter --no-color build ios --debug'),
    except KeyError as e:
        print(e)

# 编译函数
def build(self,):
    if self.buildType==BuildType.apk:
        self.buildAPK()
    elif self.buildType==BuildType.ipa:
        self.buildIPA()
    elif self.buildType==BuildType.all:
        self.buildAPK()
        self.buildIPA()

def uploadFile(self,filePath,name='runner.ipa'):
    self.p(' 开始上传' + filePath)
    url = 'https://www.pgyer.com/apiv2/app/upload'
    file = open(filePath, 'rb')
    # dataJson = {
    #     '__api_key': '__appkey__',
    #     'buildInstallType': '3',
    #     'buildPassword': '',
    # }
    # 没有进度条的上传
    # fileDir = {'file': file}
    # response = requests.post(url, files=fileDir, data=dataJson)
    # jsonStr = response.json()

    e = encoder.MultipartEncoder(
        fields={
            '__api_key': '__appkey__',
            #     'buildInstallType': '3',
            #     'buildPassword': '',
            'file': (name,file,'application/x-www-form-urlencoded'),
        },
    )
    m = encoder.MultipartEncoderMonitor(e, self.my_callback)
    h = {'Content-Type': m.content_type,"enctype":"multipart/form-data"}
    self.fileLength = os.path.getsize(filePath)
    r = requests.post(url, data=m,headers=h).json()

    if int(dict(r).get('code')) != 0:
        raise Exception('上传失败:{0}'.format(dict(r).get('message')), )
    else:
        self.p(str(r).replace('u','','\'))# 去掉前边的u
        self.p(filePath + '上传成功')

def my_callback(self,monitor):
    total = 50
    pro =int((monitor.bytes_read *1.0)/self.fileLength * 1.0 * total)
    unit = 1000 * 1000.0
    sys.stdout.write(
        '\r' + str(pro * '\033[46;34m \033[0m') + str((total - pro) * '\033[40;30m \033[0m') + ' [{0}M/'.format(pro * unit))
    sys.stdout.flush()

# 上传函数
def upload(self,):

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currentPath=self.currentPath
if self.uploadMode== UploadMode.apk or self.uploadMode==UploadMode.all:
    if self.buildMode==BuildMode.debug or self.buildMode==BuildMode.all:
        filePath=currentPath+'/build/app/outputs/apk/debug/app-debug.apk'

    try:
        self.uploadFile(filePath, name='app-debug.apk')

    except Exception as e:
        self.p(e.__str__())
        exit()

if self.buildMode==BuildMode.release or self.buildMode==BuildMode.all:
    filePath = currentPath+'/build/app/outputs/apk/release/app-release.apk'
    try:
        self.uploadFile(filePath, name='app-release.apk')
    except Exception as e:
        self.p(e.__str__())
        exit()

if self.uploadMode==UploadMode.ipa or self.uploadMode==UploadMode.all:
    f = self.currentPath+'/ios/build/Runner.ipa'
    if os.path.isdir(f) or os.path.isfile(f):
        self.uploadFile(f,name='Runner.ipa')
        mv = 'mv ios/build/Runner.ipa ios/output/Runner.ipa'
        rm = 'rm -rf ios/build/'
        os.system(mv)# 移动ipa
        os.system(rm)# 删除 build文件夹
    else:
        self.p('没有发现ipa文件:'+f)

if __name__ == '__main__':
    libs = ['requests','requests_toolbelt']
    for i in libs:
        check_requirement(i) # 检查是否安装该安装包
    Runner().main(sys.argv[1:])
```

使用起来很简单：

Python upload.py

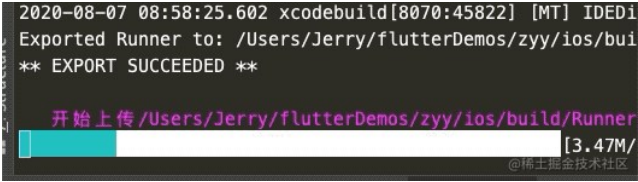
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参数下边几个

-h --help 获取帮助信息
-b --build 编译模式[release(default),debug,all]
-u --upload 上传模式[all,apk,ipa]
-t --type 编译种类[all,apk,ipa]

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[代码地址](#)