

REGRESSION TESTING

Shell Script: regressionScript

```
#!/bin/bash

set -o pipefail

echo Regression tests suit
echo 'Number of Loops = ' $1
echo 'EmailResultsPerson = ' $2

status=PASS
for((i=1;i<=$1;i+=1));
do
echo 'Run test for ' $i 'time'
./gradlew testRelease 2>&1 | tee output.log
if [ $? -ne 0 ]; then
    status=FAIL
    break
fi
done
echo All done

if [ "$2" != "" ]; then
    echo "Sending email to - " $2

    python send_email.py $2 $status output.log

else
    echo "There is no EmailResultsPerson"
fi
```

Send Email python script: send_email.py

```
# Python code to illustrate Sending mail from your Gmail account
import smtplib
import sys

email_from = "" # needs to be real email ID
email_pwd = "" # needs to be real password

email_to = sys.argv[1]

# creates SMTP session
s = smtplib.SMTP('smtp.gmail.com', 587)
```

```

# start TLS for security
s.starttls()

# Authentication
s.login(email_from, email_pwd)

# message to be sent
message = ""\
Subject: {0}

{1}
"".format(sys.argv[2], open(sys.argv[3], 'r').read())

# sending the mail
s.sendmail(email_from, email_to, message)

print("email sent successfully")
# terminating the session
s.quit()

```

To Run above script:

First parameter is number of loops
Second parameter is EmailResultsPerson, Default value is empty.

Without Email:

./regressionScript 1

With Email: (Also, in order to run send_email python script, we have to pass real credentials which are missing in above script)

./regressionScript 1 rupalirajput27@gmail.com

Output:

```

Rupalis-MacBook-Pro:Minimal-Todo rupali$ ./regressionScript 1 rupalirajput27@gmail.com
Regression tests suit
Number of Loops = 1
EmailResultsPerson = rupalirajput27@gmail.com
Run test for 1 time
registerResGeneratingTask is deprecated, use registerGeneratedResFolders(FileCollection)
registerResGeneratingTask is deprecated, use registerGeneratedResFolders(FileCollection)
:app:checkReleaseClasspath UP-TO-DATE
:app:preBuild UP-TO-DATE
:app:extractProguardFiles UP-TO-DATE
:app:preReleaseBuild UP-TO-DATE

```

```

22 tests completed, 1 failed, 2 skipped
:app:testReleaseUnitTest FAILED

FAILURE: Build failed with an exception.

* What went wrong:
Execution failed for task ':app:testReleaseUnitTest'.
> There were failing tests. See the report at: file:///Users/ru pali/Documents/SU%20Homework/Spring%202019/SW%20Testing/SourceCode/milestone2/Minimal-Todo/app/build/reports/tests/testReleaseUnitTest/index.html

* Try:
Run with --stacktrace option to get the stack trace. Run with --info or --debug option to get more log output. Run with --scan to get full insights.

* Get more help at https://help.gradle.org

BUILD FAILED in 11s
24 actionable tasks: 2 executed, 22 up-to-date
All done
Sending email to - rupalirajput27@gmail.com
email sent successfully
Rupali's-MacBook-Pro:Minimal-Todo rupali$

```

Email Message:

☆ rupalirajput27@gmail.com
FAIL

Inbox - Google 10:41 PM



```

registerResGeneratingTask is deprecated, use registerGeneratedResFolders(FileCollection)
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:app:checkReleaseClasspath UP-TO-DATE
:app:preBuild UP-TO-DATE
:app:extractProguardFiles UP-TO-DATE
:app:preReleaseBuild UP-TO-DATE
:app:compileReleaseAidl NO-SOURCE
:app:compileReleaseRenderscript UP-TO-DATE
:app:checkReleaseManifest UP-TO-DATE
:app:generateReleaseBuildConfig UP-TO-DATE
:app:prepareLintJar UP-TO-DATE
:app:mainApkListPersistenceRelease UP-TO-DATE
:app:generateReleaseResValues UP-TO-DATE
:app:generateReleaseResources UP-TO-DATE
:app:processReleaseGoogleServices
No matching client found for package name 'com.avjindersinghsekhon.minimaltodo'
:app:mergeReleaseResources UP-TO-DATE
:app:createReleaseCompatibleScreenManifests UP-TO-DATE
:app:processReleaseManifest UP-TO-DATE
:app:splitDiscoveryTaskRelease UP-TO-DATE
:app:processReleaseResources UP-TO-DATE
:app:generateReleaseSources UP-TO-DATE
:app:javaPreCompileRelease UP-TO-DATE
:app:compileReleaseJavaWithJavac UP-TO-DATE
:app:generateReleaseUnitTestSources UP-TO-DATE
:app:preReleaseUnitTestBuild UP-TO-DATE
:app:javaPreCompileReleaseUnitTest UP-TO-DATE
:app:compileReleaseUnitTestJavaWithJavac UP-TO-DATE
:app:mergeReleaseShaders UP-TO-DATE
:app:compileReleaseShaders UP-TO-DATE
:app:generateReleaseAssets UP-TO-DATE
:app:mergeReleaseAssets UP-TO-DATE
:app:generateReleaseUnitTestConfig UP-TO-DATE
:app:processReleaseJavaRes NO-SOURCE
:app:processReleaseUnitTestJavaRes NO-SOURCE
:app:testReleaseUnitTestj[7058]: Class JavaLaunchHelper is implemented in both /Library/Java/JavaVirtualMachines/jdk1.8.0_144.jdk/Contents/Home/bin/java (0x1059b34c0) and
/Library/Java/JavaVirtualMachines/jdk1.8.0_144.jdk/Contents/Home/jre/lib/libinstrument.dylib (0x1069da4e0). One of the two will be used. Which one is undefined.

com.example.avjindersinghsekhon.minimaltodo.Utility.DeleteNotificationServiceTest > testNullIntent FAILED
java.lang.NullPointerException at DeleteNotificationServiceTest.java:95

```

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