

Change Picture Style App

Group Name: 1612 project

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Introduction



Main screen is Login activity

Our application is designed to turn pictures into different style. Such as the Vincent Van Gogh's starry night style

Timeline Of Project

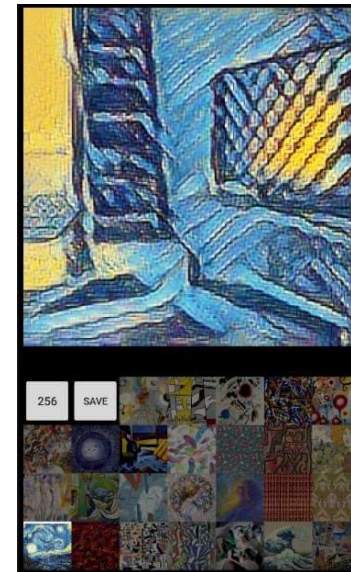
- Week 6-10 Login、 register and find back password
- Week 11-13 Select picture from phone's library and take photo
- Week 14 Using tensorflow to change into different style、 change photo's resolution ratio and store into phone's

More about timeline



During Apr 07 and Apr14, we submit the project with three features
Start from May 05, we submit the other features.

About feature



First screenshot is login UI, second one is register UI, third one is select picture from phone, forth one is change style.

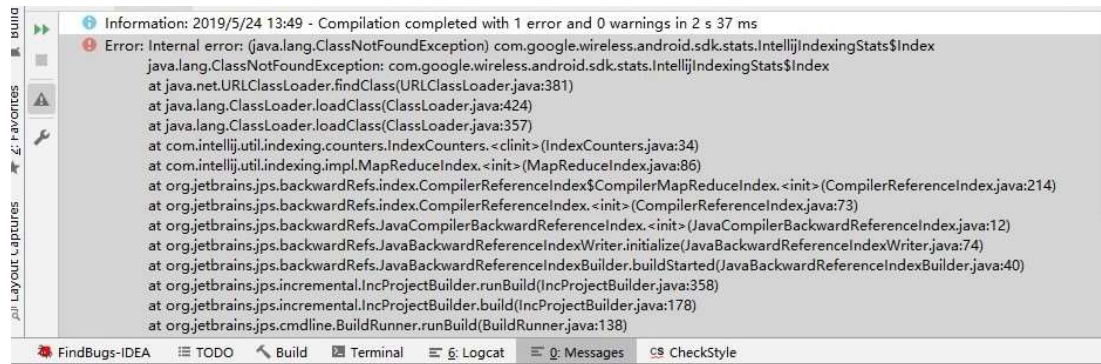
Test technique

We use Espresso, which is a Android UI Test Tool

Test case includes:

- Different input of Login activity, if UI perform the right action, test pass
- Different input of Register activity, if UI perform the right action, test pass
- Get photo from phone's photo album
- ...

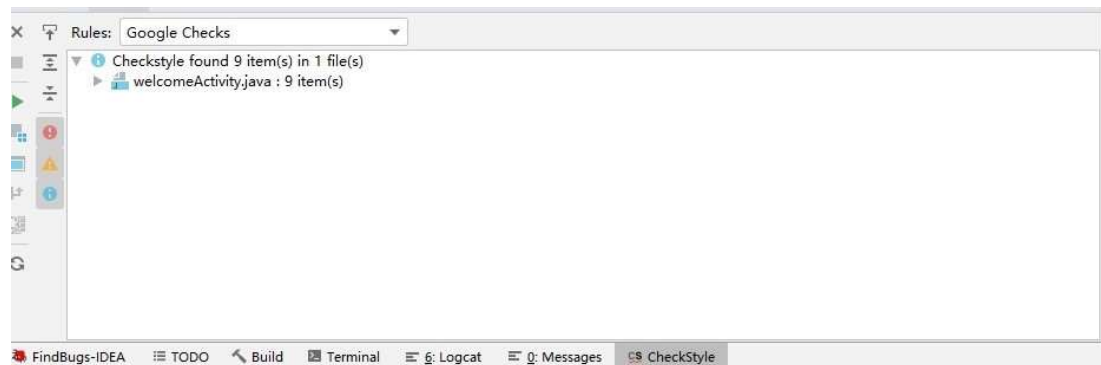
Static analysis tools



Information: 2019/5/24 13:49 - Compilation completed with 1 error and 0 warnings in 2 s 37 ms

Error: Internal error: (java.lang.ClassNotFoundException) com.google.wireless.android.sdk.stats.IntelliJIndexingStats\$Index
java.lang.ClassNotFoundException: com.google.wireless.android.sdk.stats.IntelliJIndexingStats\$Index
at java.net.URLClassLoader.findClass(URLClassLoader.java:381)
at java.lang.ClassLoader.loadClass(ClassLoader.java:424)
at java.lang.ClassLoader.loadClass(ClassLoader.java:357)
at com.intellij.util.indexing.counters.IndexCounters.<clinit>(IndexCounters.java:34)
at com.intellij.util.indexing.impl.MapReduceIndex.<init>(MapReduceIndex.java:86)
at org.jetbrains.jps.backwardRefs.index.CompilerReferenceIndex\$CompilerMapReduceIndex.<init>(CompilerReferenceIndex.java:214)
at org.jetbrains.jps.backwardRefs.index.CompilerReferenceIndex.<init>(CompilerReferenceIndex.java:73)
at org.jetbrains.jps.backwardRefs.JavaCompilerBackwardReferenceIndex.<init>(JavaCompilerBackwardReferenceIndex.java:12)
at org.jetbrains.jps.backwardRefs.JavaBackwardReferenceIndexWriter.initialize(JavaBackwardReferenceIndexWriter.java:74)
at org.jetbrains.jps.backwardRefs.JavaBackwardReferenceIndexBuilder.buildStarted(JavaBackwardReferenceIndexBuilder.java:40)
at org.jetbrains.jps.incremental.IncProjectBuilder.runBuild(IncProjectBuilder.java:358)
at org.jetbrains.jps.incremental.IncProjectBuilder.build(IncProjectBuilder.java:178)
at org.jetbrains.jps.cmdline.BuildRunner.runBuild(BuildRunner.java:138)

FindBugs-IDEA | TODO | Build | Terminal | Logcat | Messages | CheckStyle



Rules: Google Checks

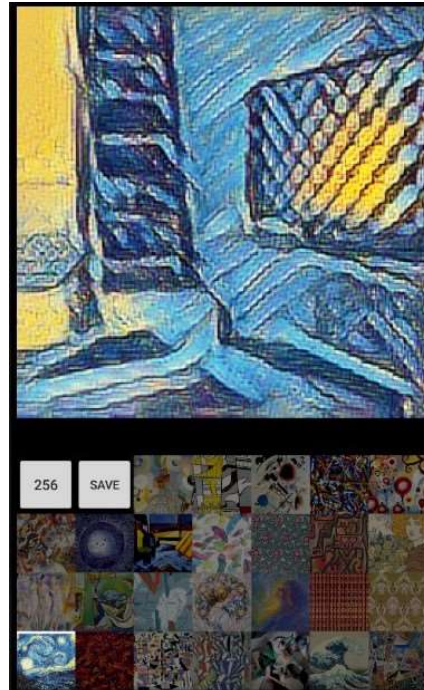
Checkstyle found 9 item(s) in 1 file(s)

- welcomeActivity.java : 9 item(s)

FindBugs-IDEA | TODO | Build | Terminal | Logcat | Messages | CheckStyle

FindBugs and CheckStyle

Demo Of our APP



User can use our APP to change a photo into their favorite style and share with friends.

Using our APP to change photo into starry night style

Conclusion

- Most features are complete, but UI is coarse, and we were pushed by DDL. However, we know that if we want to finish a project well, we should plan well before start. And good communication among teammates is important.

Future work

- I learnt from this project how to write a Android application
- It is difficult when I start to learn Android.
- I wish I can write a more attractive looks APP in the future.
- I think this APP should consume less phone's resource.