

中山大学数据科学与计算机学院本科生实验报告

(2017 年秋季学期)

课程名称：移动应用开发

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一、 实验题目

开发环境配置、git 使用

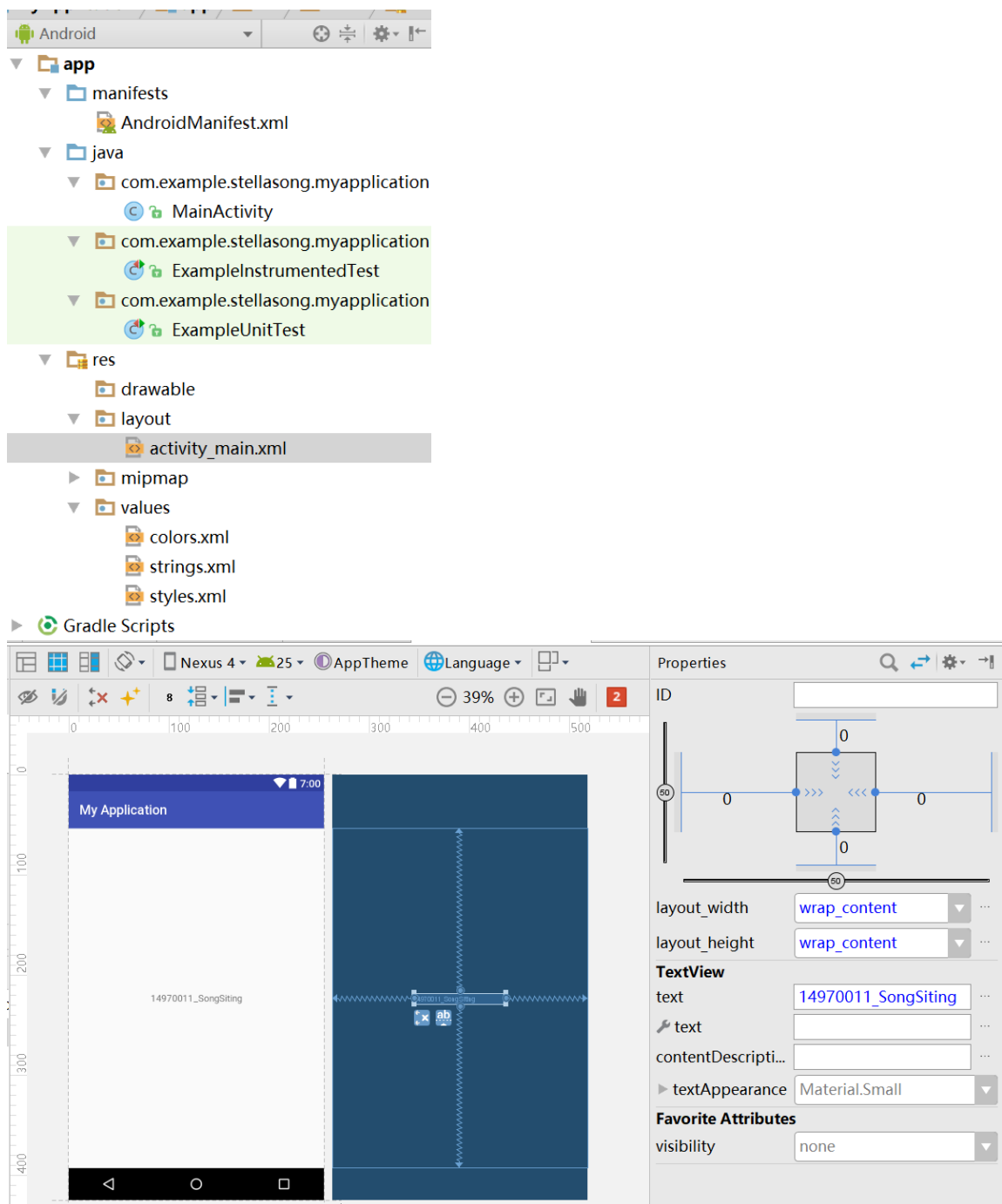
二、 实现内容

1. 安装 Android studio
2. 新建项目
3. 使用 Git 保存创建的项目

三、 课堂实验结果

(1) 实验截图

创建项目



使用 Git
创建 SSH key

```


StellaSong@DESKTOP-5E51N0B MINGW64 ~
$ ssh-keygen -t rsa -C "1056284551@qq.com"
Generating public/private rsa key pair.
Enter file in which to save the key (/c/Users/StellaSong/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /c/Users/StellaSong/.ssh/id_rsa.
Your public key has been saved in /c/Users/StellaSong/.ssh/id_rsa.pub.
The key fingerprint is:
SHA256:+Y8/+KybjYoZJumEcatL1lzU1Ido+zsVQUNlnSQNa1M 1056284551@qq.com
The key's randomart image is:
+---[RSA 2048]-----+
|  ..=+.E=.. |
|    ooo o= .+ |
|   ....+. |
|    .. O.. |
|   . . .S . |
|   * + . . |
|  + B o o.. |
| o + o +o .B. |
| o.. o .o*=* |
+---[SHA256]-----+

```

添加 ssh key 到 GitHub

SSH keys

This is a list of SSH keys associated with y



StellaSong-LG
Fingerprint: 4a:91:c4:af:e9
Added on 18 Sep 2017
Never used — Read/write

SSH

Check out our guide to [generating SSH keys](#) or t

测试 ssh keys 设置成功

```

StellaSong@DESKTOP-5E51N0B MINGW64 ~
$ git config --global user.name "StellaSong"

StellaSong@DESKTOP-5E51N0B MINGW64 ~
$ git config --global user.email "1056284551@qq.com"

StellaSong@DESKTOP-5E51N0B MINGW64 ~
$ ssh -T git@github.com
Hi SitingSong-SYSU! You've successfully authenticated, but GitHub does not provide shell access.

```

在 GitHub 上创建项目并 clone 到本地

```

StellaSong@DESKTOP-5E51N0B MINGW64 /d/Study/Android/Week2
$ git clone git@github.com:SitingSong-SYSU/SYSUAndroid2017.git
Cloning into 'SYSUAndroid2017'...
warning: You appear to have cloned an empty repository.

```

提交目录下所有文件并添加记录说明

```
StellaSong@DESKTOP-5E51N0B MINGW64 /d/Study/Android/Week2
$ cd SYSUAndroid2017/

StellaSong@DESKTOP-5E51N0B MINGW64 /d/Study/Android/Week2/SYSUAndroid2017 (master)
$ git add .
warning: LF will be replaced by CRLF in MyApplication/.idea/compiler.xml.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in MyApplication/.idea/gradle.xml.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in MyApplication/.idea/misc.xml.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in MyApplication/.idea/modules.xml.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in MyApplication/.idea/runConfigurations.xml.
The file will have its original line endings in your working directory.
warning: LF will be replaced by CRLF in MyApplication/gradlew.
The file will have its original line endings in your working directory.

StellaSong@DESKTOP-5E51N0B MINGW64 /d/Study/Android/Week2/SYSUAndroid2017 (master)
$ git commit -m "[增加]Hello World"
[master (root-commit) ce435df] [增加]Hello World
35 files changed, 588 insertions(+)
create mode 100644 MyApplication/.gitignore
create mode 100644 MyApplication/.idea/compiler.xml
create mode 100644 MyApplication/.idea/copyright/profiles_settings.xml
create mode 100644 MyApplication/.idea/gradle.xml
create mode 100644 MyApplication/.idea/misc.xml
create mode 100644 MyApplication/.idea/modules.xml
create mode 100644 MyApplication/.idea/runConfigurations.xml
create mode 100644 MyApplication/app/.gitignore
create mode 100644 MyApplication/app/build.gradle
create mode 100644 MyApplication/app/proguard-rules.pro
create mode 100644 MyApplication/app/src/androidTest/java/com/example/stellasong/myapplication/ExampleInstrumentedTest.java
create mode 100644 MyApplication/app/src/main/AndroidManifest.xml
create mode 100644 MyApplication/app/src/main/java/com/example/stellasong/myapplication/MainActivity.java
create mode 100644 MyApplication/app/src/main/res/layout/activity_main.xml
create mode 100644 MyApplication/app/src/main/res/mipmap-hdpi/ic_launcher.png
create mode 100644 MyApplication/app/src/main/res/mipmap-hdpi/ic_launcher_round.png
```

将本地仓库推到 github 上

```
StellaSong@DESKTOP-5E51N0B MINGW64 /d/Study/Android/Week2/SYSUAndroid2017 (master)
$ git push
Warning: Permanently added the RSA host key for IP address '192.30.255.112' to the list of known hosts.
Counting objects: 70, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (48/48), done.
Writing objects: 100% (70/70), 122.82 KiB | 638.00 KiB/s, done.
Total 70 (delta 0), reused 0 (delta 0)
To github.com:SitingSong-SYSU/SYSUAndroid2017.git
 * [new branch]      master -> master
```

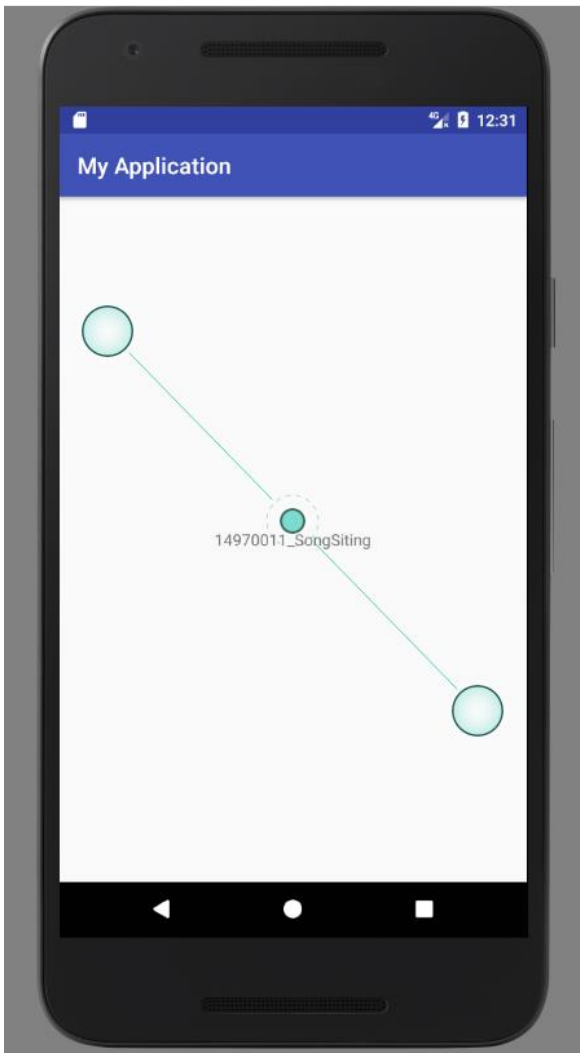
(2) 实验步骤以及关键代码


1. Android Studio 安装
2. 下载 SDK (选择了 API 25)
3. 新建项目

4. 测试运行
 5. 将代码同步到远程仓库
- (3) 实验遇到困难以及解决思路
- 开发环境配置文档中描述十分清晰，逐步操作即完成 hello world 运行。


四、 课后实验结果

Android Emulator - Nexus_5X_API_25:5554



 SitingSong-SYSU [增加]Hello World

..

 .idea [增加]Hello World app [增加]Hello World gradle/wrapper [增加]Hello World .gitignore [增加]Hello World build.gradle [增加]Hello World gradle.properties [增加]Hello World gradlew [增加]Hello World gradlew.bat [增加]Hello World settings.gradle [增加]Hello World

五、 实验思考及感想

1. 安卓开发技术的应用十分广泛
2. 在学习过程中不能只局限于调用 api，应该更注重学习设计模式等技术