App Being Review: HowHighAmI

Overall Comments:

The app doesn't fail well when it doesn't have the permissions it expects. Otherwise, it does what it sets out to do—taking a picture and annotating it works.

Response to Dev. Teams Wishes:
e.g. The dev team wanted me to look at this specific area. I did and my thoughts are…

N/A

Usage Problems/Concerns:
e.g. X didn't work. I thought Y would do this but instead if did this.

Being able to modify the text could be a good feature.

Bugs Found & How To Reproduce:
e.g. By doing XYZ, the app crashed. It gave me this error in Android Studio. (or I broke it and I'm sorry.) Be sure to let the dev team know what steps you took to cause the error and if possible what the error was.

The error messages and stack traces for these are at the end of the file.

A - The app didn't request permission to access storage, leading to it crashing when I hit the camera icon. (My other testing was done after giving the app "storage" permission in Settings.)

B - Android logs another error when I delete a photo, but the app doesn't crash.

C – The app crashes when I hit the "X" to exit out of taking a photo.

Suggestions:
e.g. It'd be cool if your app did this as well.

I don't have any other suggestions.

Errors

A) A screen to show the group you're working with would be cool, with some way to see who has spent more/less money.

The error that appeared when hitting the camera icon:

```
04-17 17:26:54.877 10962-10962/howhighami.com.howhighami E/AndroidRuntime:
FATAL EXCEPTION: main
Process: howhighami.com.howhighami, PID: 10962
java.lang.SecurityException: Permission Denial: writing
com.android.providers.media.MediaProvider uri
content://media/external/images/media from pid=10962, uid=10105 requires
android.permission.WRITE_EXTERNAL_STORAGE, or grantUriPermission()
at android.os.Parcel.readException(Parcel.java:1620)
at
android.database.DatabaseUtils.readExceptionFromParcel(DatabaseUtils.java:183)
at
android.database.DatabaseUtils.readExceptionFromParcel(DatabaseUtils.java:135)
at android.content.ContentProviderProxy.insert(ContentProviderNative.java:476)
at android.content.ContentResolver.insert(ContentResolver.java:1231)
at
howhighami.com.howhighami.GalleryFragment.onOptionsItemSelected(GalleryFragment
.java:183)
at
android.support.v4.app.Fragment.performOptionsItemSelected(Fragment.java:2070)
at
android.support.v4.app.FragmentManagerImpl.dispatchOptionsItemSelected(Fragment
Manager.java:2159)
at
android.support.v4.app.FragmentController.dispatchOptionsItemSelected(FragmentC
ontroller.java:295)
at
android.support.v4.app.FragmentActivity.onMenuItemSelected(FragmentActivity.jav
a:367)
at
android.support.v7.app.AppCompatActivity.onMenuItemSelected(AppCompatActivity.j
ava:147)
at
android.support.v7.view.WindowCallbackWrapper.onMenuItemSelected(WindowCallback
Wrapper.java:100)
at
android.support.v7.app.AppCompatDelegateImplV7.onMenuItemSelected(AppCompatDele
gateImplV7.java:620)
at
android.support.v7.view.menu.MenuBuilder.dispatchMenuItemSelected(MenuBuilder.j
ava:811)
at android.support.v7.view.menu.MenuItemImpl.invoke(MenuItemImpl.java:152)
at
android.support.v7.view.menu.MenuBuilder.performItemAction(MenuBuilder.java:958
)
at
android.support.v7.view.menu.MenuBuilder.performItemAction(MenuBuilder.java:948
)
at android.support.v7.widget.ActionMenuView.invokeItem(ActionMenuView.java:618)
at
android.support.v7.view.menu.ActionMenuItemView.onClick(ActionMenuItemView.java
:139)
at android.view.View.performClick(View.java:5204)
at android.view.View$PerformClick.run(View.java:21153)
at android.os.Handler.handleCallback(Handler.java:739)
at android.os.Handler.dispatchMessage(Handler.java:95)
at android.os.Looper.loop(Looper.java:148)
at android.app.ActivityThread.main(ActivityThread.java:5417)
at java.lang.reflect.Method.invoke(Native Method)
at
com.android.internal.os.ZygoteInit$MethodAndArgsCaller.run(ZygoteInit.java:726)
at com.android.internal.os.ZygoteInit.main(ZygoteInit.java:616)
```

B) Here's the error that shows up when I delete a photo:

```
04-17 17:31:13.172 1503-3651/? E/DatabaseUtils: Writing exception to parcel
java.lang.SecurityException: Permission Denial: reading
com.android.providers.media.MediaProvider uri content://media/external/fs_id
from pid=3436, uid=10081 requires android.permission.READ_EXTERNAL_STORAGE, or
grantUriPermission()
at
android.content.ContentProvider.enforceReadPermissionInner(ContentProvider.java
:605)
at
android.content.ContentProvider$Transport.enforceReadPermission(ContentProvider
.java:480)
at android.content.ContentProvider$Transport.query(ContentProvider.java:211)
at
android.content.ContentProviderNative.onTransact(ContentProviderNative.java:112
)
at android.os.Binder.execTransact(Binder.java:453)
```

C) Error when I back out of taking a photo:

```
04-17 17:33:38.681 11710-11710/howhighami.com.howhighami E/AndroidRuntime:
FATAL EXCEPTION: main
Process: howhighami.com.howhighami, PID: 11710
java.lang.RuntimeException: Unable to resume activity
{howhighami.com.howhighami/howhighami.com.howhighami.GalleryActivity}:
java.lang.NullPointerException: Attempt to invoke virtual method
'android.graphics.Bitmap
android.graphics.Bitmap.copy(android.graphics.Bitmap$Config, boolean)' on a
null object reference
at android.app.ActivityThread.performResumeActivity(ActivityThread.java:3103)
at android.app.ActivityThread.handleResumeActivity(ActivityThread.java:3134)
at android.app.ActivityThread$H.handleMessage(ActivityThread.java:1388)
at android.os.Handler.dispatchMessage(Handler.java:102)
at android.os.Looper.loop(Looper.java:148)
at android.app.ActivityThread.main(ActivityThread.java:5417)
at java.lang.reflect.Method.invoke(Native Method)
at
com.android.internal.os.ZygoteInit$MethodAndArgsCaller.run(ZygoteInit.java:726)
at com.android.internal.os.ZygoteInit.main(ZygoteInit.java:616)
Caused by: java.lang.NullPointerException: Attempt to invoke virtual method
'android.graphics.Bitmap
android.graphics.Bitmap.copy(android.graphics.Bitmap$Config, boolean)' on a
null object reference
at
howhighami.com.howhighami.PictureUtils.drawTextToBitmap(PictureUtils.java:76)
at
howhighami.com.howhighami.PhotoEditorFragment.onResume(PhotoEditorFragment.java
:177)
at android.support.v4.app.Fragment.performResume(Fragment.java:2005)
at
android.support.v4.app.FragmentManagerImpl.moveToState(FragmentManager.java:110
8)
at
android.support.v4.app.FragmentManagerImpl.moveToState(FragmentManager.java:124
8)
at
android.support.v4.app.FragmentManagerImpl.moveToState(FragmentManager.java:123
0)
at
```

```
android.support.v4.app.FragmentManagerImpl.dispatchResume(FragmentManager.java:
2052)
at
android.support.v4.app.FragmentController.dispatchResume(FragmentController.jav
a:187)
at
android.support.v4.app.FragmentActivity.onResumeFragments(FragmentActivity.java
:462)
at
android.support.v4.app.FragmentActivity.onPostResume(FragmentActivity.java:451)
at
android.support.v7.app.AppCompatActivity.onPostResume(AppCompatActivity.java:14
1)
at android.app.Activity.performResume(Activity.java:6351)
at android.app.ActivityThread.performResumeActivity(ActivityThread.java:3092)
at android.app.ActivityThread.handleResumeActivity(ActivityThread.java:3134)
at android.app.ActivityThread$H.handleMessage(ActivityThread.java:1388)
at android.os.Handler.dispatchMessage(Handler.java:102)
at android.os.Looper.loop(Looper.java:148)
at android.app.ActivityThread.main(ActivityThread.java:5417)
at java.lang.reflect.Method.invoke(Native Method)
at
com.android.internal.os.ZygoteInit$MethodAndArgsCaller.run(ZygoteInit.java:726)

at com.android.internal.os.ZygoteInit.main(ZygoteInit.java:616)
```