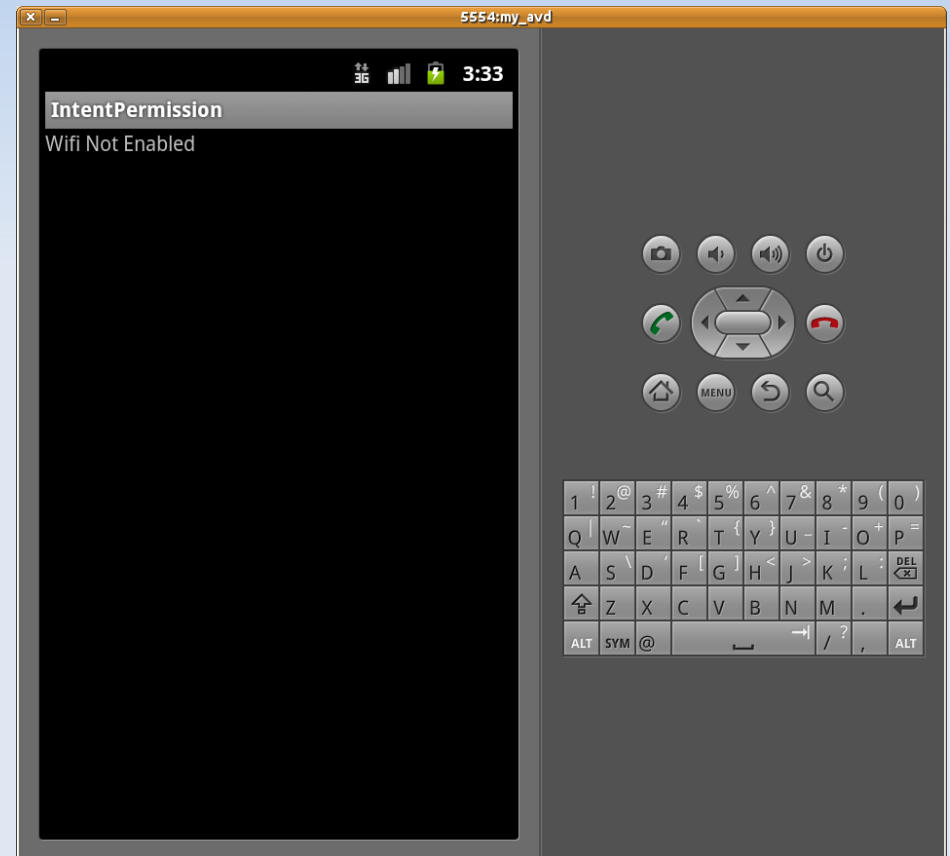


Intents and Permissions

CMSC 436 Lab 4
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Permissions

- Task 1- Detect whether wifi is enabled or disabled and report the state in a text message



Permissions

- First, try getting the wifi state and setting a text view based on it

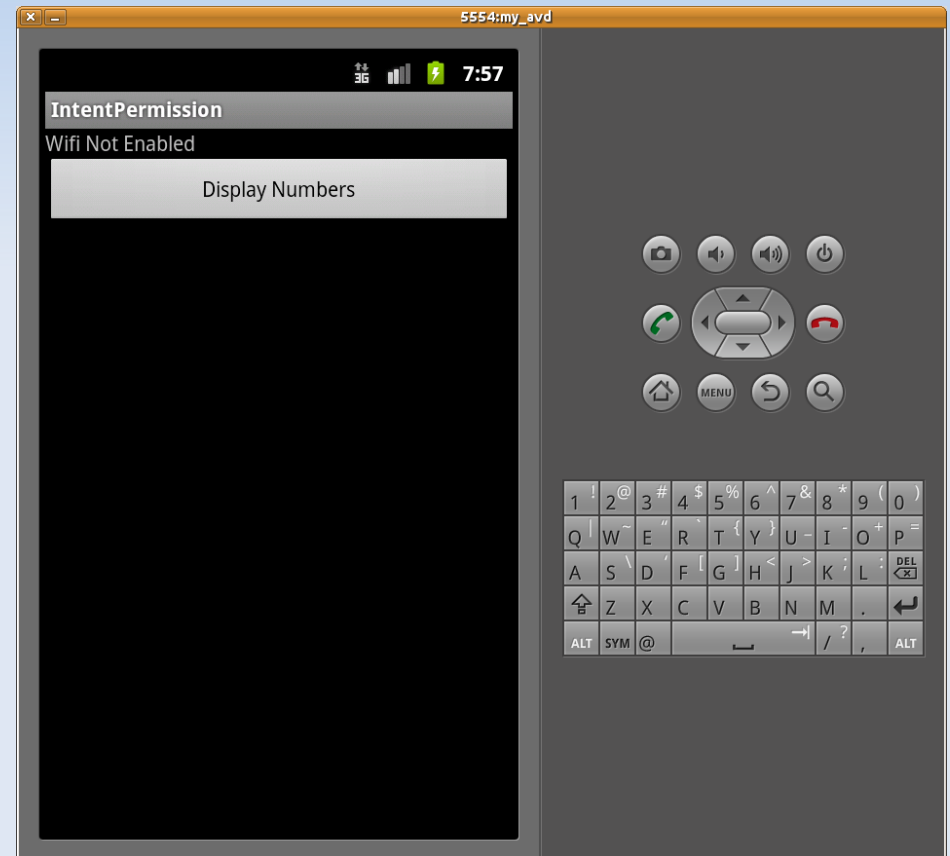
```
WifiManager wifiManager =  
(WifiManager) getSystemService(Context.WIFI_SERVICE);  
  
    if (wifiManager.isWifiEnabled()) {  
        wifiText.setText("Wifi Enabled");  
    }  
    else {  
        wifiText.setText("Wifi Not Enabled");  
    }  
}
```

Permissions

- Note that running this generates an error message
 - The reason is that you need to give the app permission to access the wifi state
- Add a uses-permission tag in AndroidManifest.xml
- The permission you will need to set is "android.permission.ACCESS_WIFI_STATE"

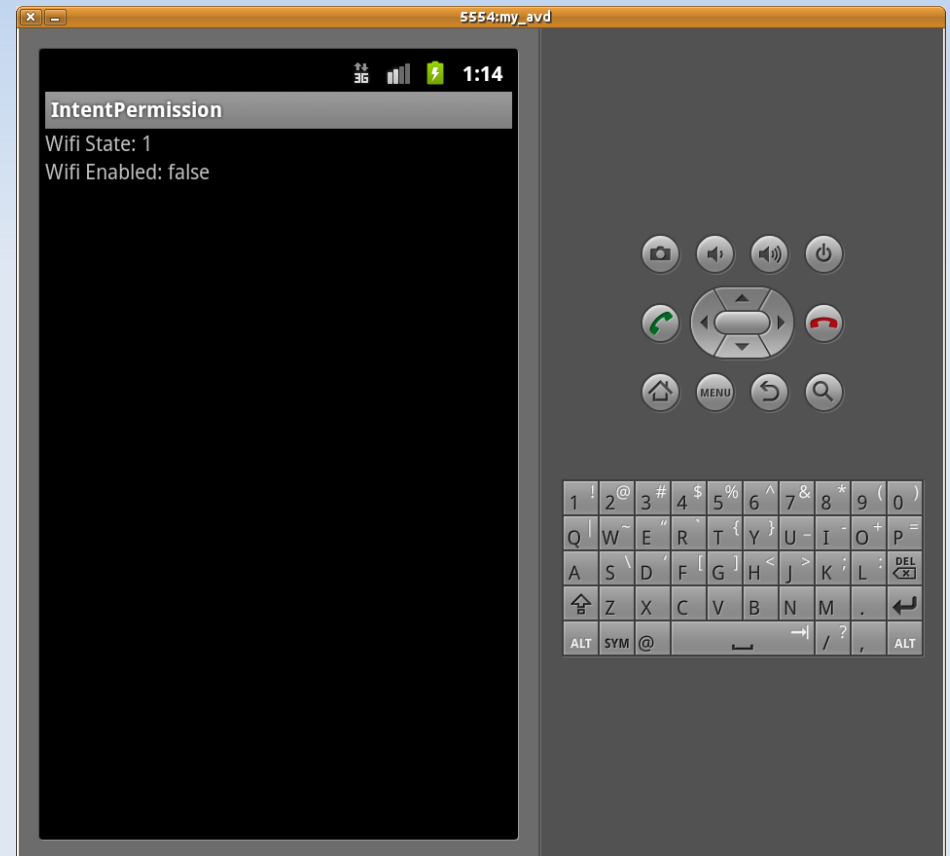
Intents

- Task 2- Use an Intent to transfer some data from one activity to another
- First, add a button to start a new activity



Intents

- Pressing the button should start a new activity which should display some values sent to it from the original activity



Intents

- There are two types of Intents- Explicit and Implicit
- First try using an Explicit Intent
 - You saw this in last week's lab
- An Explicit Intent explicitly lists the Activity class that it will activate
- (Don't forget to add the new class to the Manifest!)

Intents

- Arbitrary data can be stored in the Extras section of an Intent
- Use this to store the results of boolean `isWifiEnabled()` and int `getWifiState()`
- The new Activity can then read this data from the Intent, accessed with `getIntent()`

Intents

- Task 3- Now launch the new Activity using an Implicit Intent
- With an Implicit Intent, the Activity to be launched is not specified
- Instead, the Intent specifies an Action, Category, etc. which are used to find a compatible Activity

Intents

- First you will need to create an Intent with an Action string specified
- There are predefined Actions you can use, or you can make up your own
- For this example use the Action string "edu.umd.cs.cmssc436.SHOW_WIFI"

Intents

- You will also need to set up an Intent Filter in AndroidManifest.xml that allows your Activity to be activated by the Intent
- Your filter should accept the new Action you made and the Category "android.intent.category.DEFAULT"

Intents

- Try launching the wifi information display Activity using the new Implicit Intent