

Software Analytics - Plan

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Bug replication

As mentioned in the last report, the check-box in the dialog list disappears when the phone is in landscape mode. Therefore the bug is visible and can be replicated as shown in the previous report.

Bug localization

The first step to localize the bug is to open the project in Android Studio and then from the main activity xml file we can retrieve the id of the *BASIC LIST(CHECKBOX PROMPT)* button, that generates the dialog list in which we are interested, as shown in figure 1.

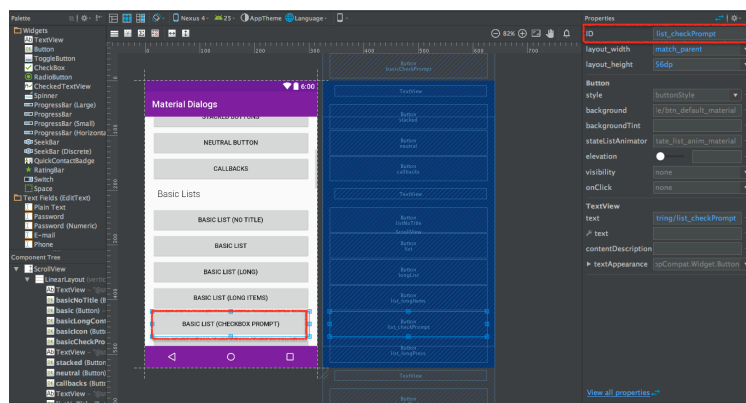


Figure 1: Android Studio

The next step is to use the id to figure out which method is implementing the button's functionality.

I found that the method *showListCheckPrompt()* in *Main Activity* class is called when the button is clicked. This method creates an object of type *MaterialDialog.Builder* (Builder is an inner class), and many methods are invoked on this object as shown in the snippet code, but my guess that bug is in the *show* method

```
@OnClick(R.id.list_checkPrompt) public void showListCheckPrompt() {  
    new MaterialDialog.Builder(this)  
        .title(R.string.socialNetworks)  
        .items(R.array.socialNetworks)  
        .itemsCallback((dialog, view, which, text) -> showToast(which + ":"  
            + text))  
        .checkBoxPromptRes(R.string.example_prompt, true, null)  
        .negativeText(android.R.string.cancel)  
        .show();  
}
```

Change impact