

# App Bar and Menus

based on Chapter 14 of  
Android Programming: A Big Nerd Ranch Guide (4th edition)



# Adding a Crime

- `fragment_crime_list.xml` (menu)
- `CrimeListFragment`

CriminalIntent Chapter 15

app

src

main

res

menu

fragment\_crime\_list.xml

Android

Project

Resource Manager

1: Project

app

manifests

java

edu.vt.cs.cs5254.criminalintent

database

Crime

CrimeDao

CrimeDatabase.kt

CrimeTypeConverters

CrimeAdapter

CrimeDetailViewModel

CrimeFragment.kt

CrimeHolder

CrimeListFragment.kt

CrimeListViewModel

CrimeRepository.kt

CriminalIntentApplication

DatePickerFragment.kt

MainActivity.kt

edu.vt.cs.cs5254.criminalintent (androidTest)

edu.vt.cs.cs5254.criminalintent (test)

java (generated)

res

drawable

layout

activity\_main.xml

fragment\_crime.xml

fragment\_crime\_list.xml

list\_item\_crime.xml

menu

fragment\_crime\_list.xml

mipmap

values

colors.xml

strings.xml

styles.xml

Gradle Scripts

2: Favorites

Build Variants

Layout Captures

3: Structure

4: Run

5: TODO

6: Logcat

Terminal

Build

Emulator: Process finished with exit code 0 (today 3:08 AM)

1:1

LF

UTF-8

4 spaces

Event Log

Device File Explorer

Attributes

new\_crime

item

Declared Attributes

Common Attributes

id

new\_crime

title

@string/new\_crime

icon

awable/ic\_menu\_add

showAsAction

ifRoom|withText

visible

enabled

checkable

All Attributes

8:00

CriminalIntent

+

×

Cast Button

Menu Item

Search Item

Switch Item

Menu

Group

Component Tree

menu

new\_crime

delete\_all\_crimes

Add a new image asset to drawables, choose the desired clipart, and use the HOLO\_DARK theme if the background is dark

Prefix the name with ic\_menu\_ by convention

If there is room, put text in the menu also

```
class CrimeListFragment : Fragment() {
```

```
...
```

```
override fun onCreate(savedInstanceState: Bundle?) {  
    super.onCreate(savedInstanceState)  
    setHasOptionsMenu(true)  
}
```

If menu does not appear,  
you likely forgot this

```
...
```

```
override fun onCreateOptionsMenu(menu: Menu, inflater: MenuInflater) {  
    super.onCreateOptionsMenu(menu, inflater)  
    inflater.inflate(R.menu.fragment_crime_list, menu)  
}
```

Create the options menu

```
override fun onOptionsItemSelected(item: MenuItem): Boolean {  
    return when (item.itemId) {  
        R.id.new_crime -> {  
            val crime = Crime()  
            crimeListViewModel.addCrime(crime)  
            callbacks?.onCrimeSelected(crime.id)  
            true  
        }  
        R.id.delete_all_crimes -> {  
            crimeListViewModel.deleteAllCrimes()  
            true  
        }  
        else -> return super.onOptionsItemSelected(item)  
    }  
}
```

Define response when an  
item is selected

Add addCrime to ViewModel

Return true to stop  
processing response

Add deleteAllCrimes to ViewModel