
Index

A, B

Application programming
 interface (API), 83–84

AsyncTask

- execute() method, 92
- implementation
 - class definition, 93
 - coding, 95–96
 - doInBackground() method, 98
 - IReportBack interface, 95
 - MyLongTask class, 96
 - onPostExecute() method, 99
 - onPreExecute() method, 97
 - onProgressUpdate()
 - method, 99
 - params, 94
 - progress, 94
 - result, 94
 - onPreExecute() method, 93
 - progress dialogs, 99
 - (see also Progress dialogs)
 - pseudocode, 91–92
 - and Thread Pools, 101

C

- cancel() method, 101
- commit() method, 80
- Compatibility library
 - APIs, 83–84
 - retrofitting, 88
 - tablets, 84
 - v4 support library, 85, 88
 - v7 support library, 85–86
 - v8 support library, 85, 87–88
 - v13 support library, 85, 88

Configuration changes

- AndroidManifest.xml file, 42
- databases/content, 37
- destroy/create cycle of
 - FragmentManager, 40
 - fragments, 39
 - onCreate() callback, 39
 - onRestoreInstanceState()
 - callback, 38
 - onSaveInstanceState()
 - callback, 37–38
 - saveFragment
 - InstanceState(), 40
 - setInitialSavedState(), 40
 - setRetainInstance(), 41
- factors, 36
- features, 36
- getLastNonConfigurationInstance(), 41
- onConfigurationChanged()
 - callback, 42
- onRetainNonConfigurationInstance(), 41
- UI elements, 35

D

- DetailsFragment.java, 89
- DialogFragment
 - AlertDialogFragment, 52, 57
 - communication, 58
 - dismiss() method, 50
 - embedded dialogs, 58
 - HelpDialogFragment, 53, 56
 - implications of, 52
 - MainActivity, 52, 54
 - MyDialogFragment, 46

DialogFragment (*cont.*)
 newInstance() method, 47
 onCreateDialog(), 48–49
 onCreateView(), 47–48
 OnDialogCompleteListener, 53–54
 PromptDialogFragment, 52, 55
 show() method, 49–50
 DialogPreference, 80
 Dialogs
 Android, 45
 dialog fragments
 (see DialogFragment)
 toast, 59
 dismissDialog() method, 109
 doInBackground() method, 98

E

EditTextPreference, 71–72
 execute() method, 92, 94, 97, 102

F

findFragmentById() method, 19
 findIndexOfValue() method, 71
 Fragment class, 1
 Back button, 2
 communications, 31
 setTargetFragment()
 method, 32
 startActivity() method, 32
 FragmentManager
 definition, 23
 getFragmentManager()
 method, 23–24
 persistence of, 30–31
 putFragment() method, 25
 saveFragmentInstanceState()
 method, 25
 showDetails() method, 28–30
 TitlesFragment
 Java Code, 25
 landscape mode, 4
 life cycle (see Life cycle,
 fragment)

portrait mode, 4
 small-screen devices uses, 2
 structure of, 4
 tablet UI and smartphone UI, 3
 transactions
 activities, 20
 back stack, 20–21
 FrameLayout, 19–20
 setCustomAnimations()
 method, 21
 setTransition() method, 21
 ViewGroup class, 20

G, H

getFragmentManager() method, 89
 getSharedPreferences()
 method, 78, 80
 getSupportFragmentManager()
 method, 89

I, J, K

inflate() method, 9
 IReportBack interface, 95

L

Life cycle, fragment
 landscape mode, 12–13
 layout XML, 14
 MainActivity Java code, 14–15
 MyFragment class, 6
 onActivityCreated() Callback, 9
 onAttach() callback method, 7
 onCreate() callback, 8
 onCreateView() Callback, 8
 onDestroy() Callback, 11
 onDestroyView() Callback, 11
 onDetach() Callback, 11
 onInflate() callback method, 7
 onPause() Callback, 10
 onResume() Callback, 10
 onSaveInstanceState()
 Callback, 10

- onStart() Callback, 10
- onStop() Callback, 11
- onViewCreated() Callback, 9
- onViewStateRestored()
 - Callback, 9
- setRetainInstance() method, 11
- Shakespeare class, 18
- showDetails() method, 15–16
- ViewGroup container, 17
- xml Layout File, 17–18

List preference, 68

- prefdisplayarrays.xml files, 70–71
- string array flight_sort_options, 69
- in XML, 69

M

MultiSelectListPreference, 72–73

N

newInstance()

- method, 7, 17, 29, 31, 47

O

- onActivityCreated()
 - Callback method, 5, 9
- onAttach() callback method, 7
- onCancel() callback, 51
- onCreate() callback method, 5, 8, 39
- onCreateView()
 - Callback method, 5, 8
- onDestroy() Callback, 11
- onDestroyView() Callback, 11
- onDetach() Callback, 11
- onDismiss() callback, 50–51
- onInflate() callback method, 5, 7
- onPause() Callback, 10
- onPostExecute() method, 94, 99
- onPreExecute() method, 93, 97, 109
- onPreferenceChange() callback, 77
- onProgressUpdate() method, 99
- onRestoreInstanceState()
 - callback, 38

- onResume() Callback, 10
- onSaveInstanceState() callback
 - method, 7, 10, 37–38
- onStart() Callback, 10
- onStop() Callback, 11
- onViewCreated() Callback, 9
- onViewStateRestored() Callback, 9

P, Q, R

- Preferences framework, 61
 - AndroidManifest.xml, 73
 - android.preference.
 - PreferenceActivity, 63
 - CheckBoxPreference, 65–67
 - default preferences file path, 63
 - definition, 63
 - dependency creation, 74
 - DialogPreference, 80
 - EditTextPreference, 71–72
 - with headers, 75
 - list preference, 68
 - prefdisplayarrays.xml
 - files, 70–71
 - string array flight_sort_options, 69
 - in XML, 69
 - MultiSelectListPreference, 72–73
 - onPreferenceChange()
 - callback, 77
 - PreferenceCategory, 73
 - PreferenceScreen, 77
 - Saving State, 78
 - setting up, 62
 - SwitchPreference, 65–66
- Progress dialogs, 91, 99
 - activity pointer, 102
 - AsyncTask code, 107
 - device rotation, 102
 - management, 103
 - non-UI Fragment
 - coding, 105–106
 - retained fragment, 104, 110
 - testing scenarios, 103

■ S

Saving State, 61, 78
setCustomAnimations()
 method, 21, 89
setMax() method, 101
setOptionText() method, 66
setRetainInstance()
 method, 11
setTransition() method, 21
showDetails() method, 89
show() method, 101

■ T, U

Thread Pools, 101
TitlesFragment.java, 89
Toast, 59

■ V, W, X, Y

ViewGroup class, 20

■ Z

ZIP file, 113