Java Source Code (Cont.)

Line 24: intent(Context packageContext, Class<?> cls)

It is a constructor of the class `Intent`, an abstract description of an operation to be performed, and creates an intent:

- "`Context packageContext`," which is a `Context` of the application package implementing this class. Context is an interface to information about an application environment.

- "`Class<?> cls`," which is the component class that is to be used for the intent

Line 25: i.putExtra(String name, String[ ] value) method

Add extended data to the intent, where

- `name`, which is the name of the extra data, such as `"name"`, and
- `value`, which is the String array data value, such as `name.getText( ).toString( )`.

Line 26: startActivity(Intent)

It is a method of `Context` and launches a new activity. In this case, it will launch the `NextPageActivity` activity.

Line 33: onCreateOptionsMenu(Menu menu)

Initialize the contents of the `Activity`'s standard options menu. This is only called once, the first time the options menu is displayed.

Line 35: getMenuInflater( ).inflate(R.menu.menu_main, menu);
    Inflate a menu hierarchy from the specified XML resource.

Line 40: onOptionsItemSelected(MenuItem item)
    It is called whenever an item in your options menu is selected.

Line 44: int id = item.getItemId( );
    Return the identifier for this menu item.

HelloWorld/app/src/main/java/com/example/wenchen/helloworld/MainActivity.java

```java
01  package com.example.wenchen.helloworld;
02
03  import android.app.Activity;
04  import android.content.Intent;
05  import android.os.Bundle;
06  import android.view.View;
07  import android.widget.Button;
08  import android.widget.EditText;
09  import android.support.v7.app.AppCompatActivity;
10  import android.view.Menu;
11  import android.view.MenuItem;
12
13  public class MainActivity extends AppCompatActivity {
14    @Override
15    protected void onCreate( Bundle savedInstanceState ) {
16      super.onCreate( savedInstanceState );
17      setContentView( R.layout.activity_main );
18      final EditText name = (EditText) findViewById( R.id.name );
19      final Button button = (Button)   findViewById( R.id.next );
20      button.setOnClickListener(
21        new View.OnClickListener( ) {
22          public void onClick( View v ) {
23            /** Here i calls a new screen. **/
24            Intent i = new Intent( MainActivity.this, NextActivity.class );
25            i.putExtra( "name", name.getText( ).toString( ) );
26            startActivity( i );
27          }
28        }
29      );
30    }
31
32    @Override
33    public boolean onCreateOptionsMenu( Menu menu ) {
34      // Inflate the menu; this adds items to the action bar if it is present.
35      getMenuInflater( ).inflate( R.menu.menu_main, menu );
36      return true;
37    }
38
39    @Override
40    public boolean onOptionsItemSelected( MenuItem item ) {
41      // Handle action bar item clicks here.  The action bar will
42      // automatically handle clicks on the Home/Up button, so long
43      // as you specify a parent activity in AndroidManifest.xml.
44      int id = item.getItemId( );
45
```

```
46    // noinspection SimplifiableIfStatement
47    if ( id == R.id.action_settings ) {
48        return true;
49    }
50    else if ( id == R.id.next ) {
51        Intent i = new Intent( MainActivity.this, NextActivity.class );
52        startActivity( i );
53    }
54    return super.onOptionsItemSelected( item );
55  }
56 }
```

Slide 8.18: Java source code: `MainActivity.java` (cont.)
Slide 8.20: Java source code: `NextActivity.java` (cont.)
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