

Before We Start, make sure....



- ★ You have taken a recent pull of the app from
[git@github.com:NazneenRupawalla/Android-Bootcamp-V1.1.git](https://github.com:NazneenRupawalla/Android-Bootcamp-V1.1.git)

Agenda



- Themes
 - Understand how to make synchronous calls to fetch the product data.
 - Implement a Progress Dialog.
 - Understand and implement Async calls.
 - Complex Networking
 - Caching
 - Activity Recreation

Styles and Themes



Styles



Themes – a skin for the application

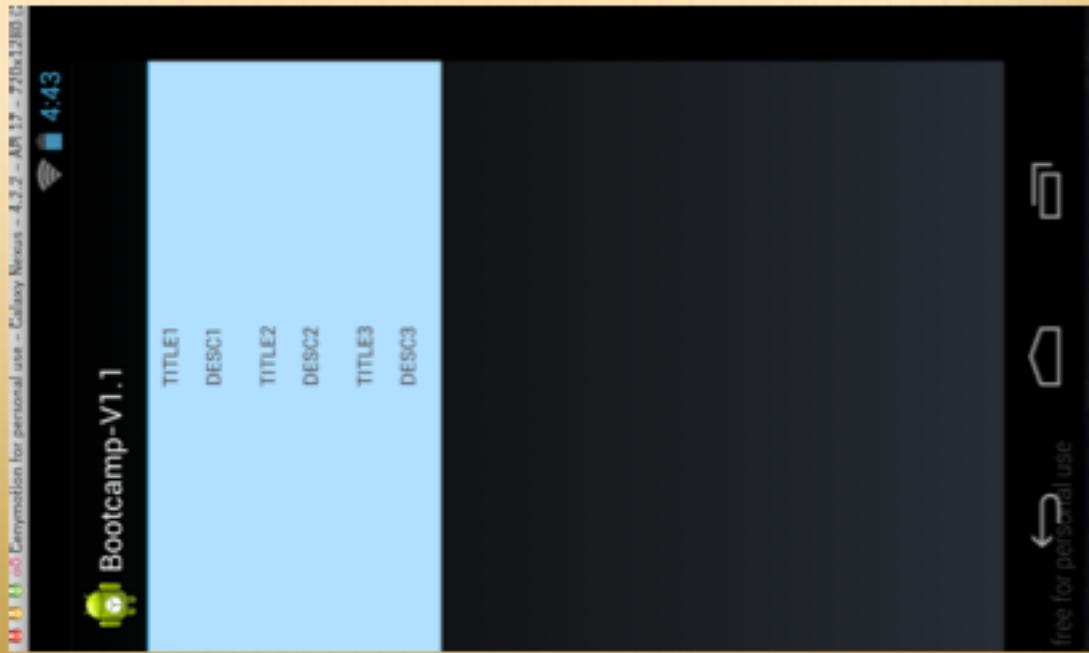


Assignment 12



- ★ Create a custom theme for the application
- ★ Change the Action Bar colour to your favourite colour
- ★ Make the main page look neater and cleaner

Final . . .



	ShoppingApplication	
CITIZEN AQ ANALOG WATCH - FOR	SONY SMARTWATCH (BLACK)	CITIZEN ECO- DRIVE ANALOG WATCH - FOR
TITLE2	DESC2	CASIO EDIFICE ANALOG WATCH - FOR
		Casio G-Shock Analog-Digital Watch - For
TITLE3	DESC3	CASIO EDIFICE ANALOG WATCH - FOR
		CASIO EDIFICE ANALOG WATCH - FOR
TITLE1	DESC1	TOMMY HILFIGER TYLER ANALOG
		TOMMY HILFIGER KELSEY
DESC2		
DESC3		

SHOPPING APPLICATION

Application version 1

LIST OF PRODUCTS

P1

P2

P3

P4

P5

P6

P1 details

Assignment 12

User Launches The App

Fetch List of Products from the Server

GET request to fetch images

Display all products



Background Processing

- ★ Implement a Progress Dialog

- ❖ Why use concurrency?
- ❖ Purpose of AsyncTask class
- ❖ The parameters are the following AsyncTask<TypeOfVarArgParams, ProgressType, ResultType>.

Assignment 13



- ❖ Fetch the product data asynchronously
- ❖ Fetch the product images asynchronously

Caching



★ Why cache ?

★ In Memory LRU Cache, Disk.

★ Approaches.

Complex Networking

Disadvantages of using AsyncTask

★

Activity Recreation

Save Activity Status

- ❖ executeOnExecutor
- ❖ Loaders
- ❖ Services instead of Async Tasks
- ❖ Third party libraries
- ❖ Robospice, Volley, Retrofit, Androidplugins

Recover Activity Status



Assignment 14



Save Products





References

[http://www.vogella.com/tutorials/
AndroidBackgroundProcessing/article.html](http://www.vogella.com/tutorials/AndroidBackgroundProcessing/article.html)



❖ <http://www.jayway.com/2012/11/28/is-androids-asynctask-executing-tasks-serially-or-concurrently/>

❖ <http://logc.at/2011/11/08/the-hidden-pitfalls-of-asynctask/>

❖ [http://developer.android.com/reference/android/os/
AsyncTask.html](http://developer.android.com/reference/android/os/AsyncTask.html)

❖ [http://www.compiletimeerror.com/2013/01/why-and-how-to-
use-asynctask.html#.Uv-nHEKSwU9](http://www.compiletimeerror.com/2013/01/why-and-how-to-use-asynctask.html#.Uv-nHEKSwU9)