Feedback — Week 4 Quiz

Help

You submitted this quiz on **Wed 14 Jan 2015 8:09 PM PST**. You got a score of **24.50** out of **29.00**. However, you will not get credit for it, since it was submitted past the deadline.

Question 1

Which of the following are benefits of the AsyncTask framework compared with the HaMeR framework, according to the video:

Your Answer		Score	Explanation
☑ The AsyncTask framework doesn't require concurrent application developers to explicitly manipulate Threads, Handlers, Messages, or Runnables.	~	1.00	
Users of the AsyncTask framework must have a deep understanding the patterns that guide the structure of and interactions between its classes	•	1.00	
✓ The tight integration of classes in the AsyncTask framework simplifies its usability by reducing the "surface area" of its interface.	~	1.00	
☐ The loose integration of classes in the AsyncTask framework simplifies its usability by reducing the "surface area" of its interface.	~	1.00	
Total		4.00 / 4.00	

Question Explanation

Please see video S1-M3-P6 The AsyncTask Framework (Part 1)

Question 2

Which of the following are hook methods invoked by a template method in the AsyncTask framework, according to the video:

Your Answer		Score	Explanation
execute()	~	1.00	
	~	1.00	
✓ dolnBackground()	~	1.00	
	~	1.00	
Total		4.00 / 4.00	

Question Explanation

Please see video S1-M3-P6 The AsyncTask Framework (Part 1)

Question 3

Which of the following patterns are commonly used by black-box frameworks, according to the video:

Your Answer		Score	Explanation
Decorator	×	0.00	
☐ Template Method	~	1.00	
	~	1.00	
State	~	1.00	
Total		3.00 / 4.00	

Question Explanation

Please see video S1-M3-P7 The AsyncTask Framework (Part 2)

Question 4

Which of the following are ways in which the AsyncTask framework extends the Template Method pattern, according to the video:

Your Answer		Score	Explanation
✓ It allows hook methods to run in different threads of control	~	0.75	
✓ It defers some steps in its concurrent processing algorithm to a subclass	×	0.00	
	×	0.00	
It decouples interface from implementation so the two can vary independently	~	0.75	
Total		1.50 / 3.00	

Question Explanation

Please see video S1-M3-P7 The AsyncTask Framework (Part 2)

Question 5

Which of the following is the default behavior of AsyncTasks in recent versions of Android, according to the video:

Your Answer		Score	Explanation
A single background thread in each process runs the all dolnBackground() methods of AsyncTasks	~	1.00	
■ A pool of threads run multiple AsyncTasks concurrently within a process to take advantage of multi-core chipsets	~	1.00	
Total		2.00 / 2.00	

Question Explanation

Please see video S1-M3-P7 The AsyncTask Framework (Part 2)

Question 6

Which of the following are benefits of white-box frameworks compared to black-box frameworks, according to the video:

Your Answer		Score	Explanation
☐ They are easier to configure and use since they are customized via self-contained plugins	~	1.00	
✓ They are easier to use since application developers must understand which hook methods to override	×	0.00	
✓ They are easier to develop since their their design needn't anticipate a wide range of use cases	~	1.00	
✓ They are easier to use since they apply common Gang-of- Four patterns	×	0.00	
Total		2.00 / 4.00	

Question Explanation

Please see video S1-M3-P7 The AsyncTask Framework (Part 2)

Question 7

Which of the following are the different ways of concurrently downloading an image shown in this video

Your Answer		Score	Explanation
✓ Posting and processing Runnables	~	1.00	
☐ Invoking remote method calls via the Binder	~	1.00	

Sending and Handling Messages	✓ 1.00			
	✓ 1.00			
Total	4.00 / 4.00			
Question Explanation				
Please see video S1-M3-P8 Programming with Android Concurrency Frameworks (Part 1)				

Question 8

Which of the following are benefits of the AsyncTask framework relative to the HaMeR framework, according to the video:

Your Answer		Score	Explanation
✓ It is easy to use for both simple & complex concurrent applications	~	1.00	
☐ It enables interactions between multiple background threads	~	1.00	
✓ It enables relatively transparent scalability via its use of thread pool Executor	~	1.00	
It incurs low overhead from synchronization, context switching, and data movement costs	~	1.00	
Total		4.00 / 4.00	

Question Explanation

Please see video S1-M3-P9 Programming with Android Concurrency Frameworks (Part 2)