

Module 3 Quiz

Quiz, 10 questions

4
points

1.

Which of the following correctly describe what an intent is in Android (choose all that apply):

- ☒ A message that describes an action to perform or an event that has occurred
 - ☐ An event handler that responds to system-side broadcast announcements
 - ☐ A component that runs in the background to perform long-running operations or access remote resources
 - ☐ A message that provides a screen within which users can interact in order to do something
-

4
points

2.

Which of the following correctly describe benefits that an intent provides to apps in Android (choose all that apply):

- ☒ An intent is the "glue" that helps integrate Android apps
 - ☐ An intent manages secure access to structured data
 - ☐ An intent defines the smallest unit of execution for sequences of programmed instructions
 - ☒ An intent simplifies app development since existing components can be reused as "black-boxes"
-

4
points

3.

Which of the following correctly describe what is meant by an intent being a "passive" data structure (choose all that apply):



☒ An intent just consists of fields and field access/mutator methods



☐ An intent cannot be used in a concurrent program



☐ An intent only contains static getter/setter methods



☐ An intent only contains public fields

4
points

4.

Which of the following correctly describe what is meant by an intent enabling "late runtime binding" of apps to components (choose all that apply):



☐ App components can be discovered and used at compile-time vs. runtime



☐ App components started by intents are slow to launch



☐ App components started by intents must run in separate processes



☒ App components can be discovered and used at runtime vs compile-time

4
points

5.

Which of the following correctly describe the benefits of runtime discovery of app component (choose all that apply):



☐ It enhances the security and robustness of apps by disallowing trojan horses



☒ It enables systematic reuse that creates apps from predefined software components



☒ It enables apps with loosely-coupled components that can be extended and integrated dynamically



☐ It ensures that developers know at compile-time which component implementations their app will use

8
points

6.

Which of the following are elements in an Android intent (choose all that apply):

☐ URL

☒ Data

☒ Name

☐ Stack

☒ Extras

☒ Flags

☒ Action

☐ Service

4
points

7.

Which of the following statements are true for an "implicit" intent (choose all that apply):

☐ The category must not be specified

☐ The action must not be specified

☒ The name must not be specified

☐ The data must not be specified

6
points

8.

Which of the following are true statements about implicit and explicit intent (choose all that apply):

☒ Android delivers an implicit intent to a target component only if it matches one of its intent filters in the AndroidManifest.xml file



Explicit intents are typically used to interact with components residing in other apps



Implicit intents are typically used to interact with components residing in other apps



Android delivers an explicit intent to a target component without consulting filters in the AndroidManifest.xml file



Implicit intents are used to "tightly couple" activity and broadcast receiver components



Explicit intents are particularly important when starting or binding to services

6
points

9.

Which of the following elements must match during implicit intent filtering for an intent to be delivered to a target component (choose all that apply):



Category



Extras



Data



Flags



Name



Action

4
points

10.

Which of the following correctly describe what Android's IntentService does (choose all that apply):



It expresses requests as intents & passes them between threads and/or processes



It is an event handler that responds to system-side broadcast announcement



It is a component that provides a screen within which users can interact in order to do something



It's a framework that handles asynchronous requests on demand

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