

CS4039 - Software for Mobile Devices

Quiz 2

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1. In Android development, what is the primary difference between explicit intents and implicit intents?

- ☒ a) Explicit intents specify the exact component to be invoked, while implicit intents allow the system to determine the best component to handle the request.
- ☐ b) Explicit intents are used within the same application, while implicit intents are used to communicate between different applications.
- ☐ c) Explicit intents require permission from the user to proceed, while implicit intents do not.
- ☐ d) Explicit intents can only be used for launching activities, while implicit intents can be used for launching any type of component.

2. What is the primary advantage of using a ListView over a RecyclerView in Android development?

- ☒ a) ListView is more efficient in terms of memory usage.
- ☐ b) ListView has built-in support for animation effects.
- ☒ c) ListView is easier to implement for simple lists.
- ☐ d) ListView provides better support for complex layout structures.

3. Which lifecycle method of a fragment in Android is called after its view hierarchy has been inflated?

- ☒ a) onCreateView()
- ☐ b) onCreateView()
- ☐ c) onActivityCreated()
- ☐ d) onStart()

4. Design and implement an Android application that should include at least two fragments, each displaying a list of item names. Implement a mechanism to pass data between fragments using Interface. Additionally, ensure that clicking on an item in one fragment triggers an action or navigation to another fragment by showing price of item on it. Include the Java code for fragment logic, the XML layout files for the fragments, and any necessary manifest declarations for the intents. [7 marks]

XML: MainActivity

☒ <LinearLayout
 : layout_width = "match_parent"
 : layout_height = "match_parent"
 : Orientation = "vertical" >

<fragment

android:id="@+id/listfrag-one"
 android:name="com.example.frag_8a.Listfrag"
 android:layout_width="match_parent"
 : layout_height="0dp"
 : layout_weight="2"
 tools:layout="@layout/fragment_list"/>

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<fragment

android:id="@+id/detailfrag"
 : name="com.example.frag_8a.Detailfrag"
 android:layout_width="match_parent"
 : layout_height="0dp"
 : layout_weight="1"
 tools:layout="@layout/fragment_detail"/>
 </LinearLayout>