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(1) Based on your understanding a recent buisness trend that has influenced to Android platform explain how this trend impacts Android app developers and buisness in the mobile app industry.

impact on Android app developers and buisness in the mobile app industry.

→ E-commerce apps allows users to discover purchase and shares products directly through social media platforms this has made it easier buisness to reach new customer and increase sales.

→ Android app developer can capitalize on this trend by developing E-commerce apps that are integrated with popular social media platform this will make it easier for user to browse and purchase product from their favourite brands without having to leave the social media app

Buisness can use E-commerce apps to promote their products and services to a wider audience They can also use these app to collect feedback and build relation with their followers

Overall the rise of E-commerce is a positive trend for Android app developer and buisness in the mobile

experiences and it offers more opportunities to reach
customers and increase sales.

Ex:
Instagram has launched a new shoping feature
that allows users to purchase products directly from
app this feature is integrated with facebook
payment system so users can checkout with

2. What is purpose of an inflator of layout in
development and how does it fit into architecture
of Android layout?

-> the purpose of an Inflator of Android develop
is to take an xml layout file and create the corresp
view object this done using the LayoutInflater.
method.

To use the LayoutInflator, you first need to g
instance of it you can do this by calling the Layout
.from() method. You we can use the Infla
method to create View Objects from an xml
layout file

This layout is used for take layout files a
create view objects This allows Android dev
to create dynamic and flexible UIs without ha
to write lot of code

ex
LayoutInflater inflater = LayoutInflater.from(th
View view = inflater.inflate(R.layout.my_la
null);

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The layout Inflator is a powerful tool that allows Android developers to create complex sophisticated UI's with data. It is an essential part of the Android layout architecture.

8 Explain the concept of a custome dialog Box in Android application Provide example 2-U to illustrate its use.

A custome DialogBox in Android is a dialog box that is created using a custom layout. This allows developers to create dialog boxes unique look feels and to include any UI elements that they need

custom dialog boxes are often used to provide user with important information get user input or confirm action for example a custom dialog box could be used for.

Ex

```
<?xml Version="1.0" encoding="UTF-8"?>
<LinearLayout xmlns:android="http://schemas.android.
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
>
```

```
<TextView
    android:id="@+id/working_text"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Are you sure you want to
                  this file? This action can
                  undone"/>

<Button
    android:id="@+id/delete_button"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:text="Delete"
/>

<Button
    android:id="@+id/cancel_button"
    android:layout_width="match_par
    android:layout_height="wrap_co
    android:text="Cancel"

</LinearLayout>
```

4 How do activities, services, and the Android manif file work together to make an Android ap Can you describe their main roles and provide basic example of how they cooperate to d model app?

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Activities service and the Android manifest file code snippets to make an Android app by providing different way for developers to implement different features of their app.

Service are used to perform tasks in the background such as downloading data, playing music or sending emails. Services can run even when the user is not interacting with the app.

The Android manifest file is a XML file that describes the components of an app and how they interact with each other. The manifest file also specify the permission that the app needs to access.

Activity :- A music player app has a main activity that display a list of songs and allows users to play music and skip song.

Service :- The music player app also has a service that download new song from the internet. This service runs in the background so that users can continue to use the app while songs are downloading.

→ Android Manifest file : The manifest file declares th activity and the music player service. It also specifies the app needs. permission to access the internet.

→ For example the main activity can send an intent the music player service to start that song played the music player service can then send an back to the main activity to notify that song started playing.

→ Activity services and the Android Manifest File together to provide a complete and efficient way develop Android apps.

E

How does the Activity Manifest file in the development Android 4A Application? Pr example to demonstrate its significance

→ The Android Manifest file is a critical pa the development for android apps. It provid Information to the android System about thre such as its components permission and targ API level

→ It ensure that app's target API level The manifi file specifies minimum API level that the app requires. to run This information is used Android system to ensure that compatible wit the device.

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Or

A developer is creating an eco Android App to use location services to provide users with direction. The app will need to request permission to access the user's location the developer should add the following permission app's manifest file:

<uses-permission android:name="android.permission.ACCESS_FINE_LOCATION" />

The Android manifest file is a powerful tool that can be used to control the behavior of Android app. By carefully configuring the manifest file developers can ensure their apps are secure.

Overall Android Manifest file is an essential part of the development process for Android apps.

6. What is the role of resource in Android development? Discuss the various types of resource their significance in creating well-structured application provide example to clarify key points.

Types of Resources

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→ There are two main types of resource in Android dev

→ Raw Resources :- Raw Resource are binary file
are stored in the res/raw directory. They can
used to store any types of file such as im
audio file and vidio files.

→ Layout resource : Layout Resource are xml files th
define the layout of the appl

→ Interface They are stored in res/layout d

Resource are important in creating well. Stru
application because they allow developers to sepa
the app's code from its look and feel This
makes it easier maintain and update th
app

Examples

→ A music player app might use raw resour
to store audio files and images of album cov

→ A social mrdia app might use layout reso
to define of the app user interface such as
feed profile messaging screens.

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Q How does Android service contribute to the functionality of a mobile application? Describe the process of developing an Android service.

Android Services are background components that can run independently of the user interface. This allows them to perform tasks that do not require user interaction such as downloading, playing music or sending emails.

process of developing an Android service

1. create a new class that the service class. Java.

```
public class myservice extends Services
{
```

2 Override the onCreate(), onStartCommand() and onDestroy() methods.

3. Start the service's background task in the onStartCommand() method.

```
@Override
public int onStartCommand(Intent intent,
int flags, int startId) {

new Thread(() -> {
```

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4. Register the service in the app's manifest file
<service android:name=".myservice"/>

5. Start and stop service using intents.

TO start that Service:

Java

* TO start the services:

```
Intent intent = new Intent(this, MyServ
startService(intent);
```

* TO stop the service:

```
Intent intent = new Intent(this.MyService.
stopService(intent);
```

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