

Ganpat U.V. Patel College of Engineering University Engineering U.V. Patel College of Engineering

Gannat Vidhyanagar, Mehsana-Gandhinagar Highway, Mehsana - 384012

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	and anti-literature has positioned and some
	Mobile Application Development
	Talkeryng him allist yers at beste to
930000	Assignment - 1 male of the designment -
2703	1817-9 By perhaphicalous has a mal of head the
0-1	Based on your understanding, identify a recent husiness
The	trend that has influenced the Android platform.
Toyer	Explain how this trend impact Android App developers
	and boxinesses in the mobile app indistry.
	the whole quit allibrate and the companied of
-	One perent business trend that has influenced the
13.00	Android platform inis the rise of mobile - Commerce
1000	Com - Commerce)
	The growth of m-commerce has led to un increase in
yerlag	demand for mabile Apps
Sept west	This torend has had a significant impact on Android
F 1994	app developers and hasinesses in the mobile app industry
**	A LANGE AND
多 型	Android App developers.
of the least	Increased demand for m-commence apps:
	- Android capp developers now have the apportunity to
	devictor cipe for a wide range of m-commerce activity
- Land	- This has led to an increase demand for Android own
100	development skills and expertise
-	New Revenue opportunities
	- The growth of m-commerce has created new revenue
	apportunities for Android exp developen.
CHANGE	Page No.

- For example, developers com earn revenue from an in-apr purchase, advertising and subscription free.

inversely & religion

-) Meed for new skills and expertise

Android cipp developers who want to develop an commerce apps treed to have a good understanding as e-commerce and mobile payment processing.

opp that can handle large volumes of transcations.

Bysiness in the mobile App industry

Increased Competition

The growth of m-commerce has led to an incremen in competition in the mobile app industry.

Business now need to develop high quality and innovertue m-commerce apps in order to attract and retain systems

- Meed to invest in Medile Apr Development
- Brisinesses need to invest in mobile app developments
in order to reach their tanget customers and affect
them a convenient and seamless experience.

- New opportunities for crowth

- The growth of m-commerce has created new apportunities for husiness in the mobile app industry.

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0-2	what is the purpose of an Inflator of layout in
Water	Android development, and how does it fit into
	the architecture of Android layout?
	THE STATE OF THE POTO STATE OF
	In Android development, an influter is a mechanism
	assed to consider an XML layout file into
took or	Corresponding view objects in your exp.
	The state of the s
04	Purpose of Layout Intly tex
	Market Destroit of the last of the
1)	Dynamic UI Generation
alex:	material de la resignación de la contractor de la contrac
-	To History emillar harding the electric transfer to
	Inflyters enubles dynamic UI neneration by allowing
177	developers to create views programmentically at
	runtime bused on predefined XML layout.
2)	Reace of leaved Consumed
111111	Reuse of Igyout Companents
	Intlater facilitade de la 1
0	Instead of duplicating the same layout definition in
110011	multiple places within the same layout definition in
13	
indicate the	once and in XMI and inflated it whenever needed
3)	C. D. J.
	Separation of Concerns
Sign-	In Anchard 117 comment
	In Android, UI components are Appropriated defined
	concern between UI and twings a severation of
	Concern between UI and business eyes.
SHANSHYAN	

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- # How it first into Android Lugard Architecture
- DXML layout definition - Developers define the structure and appearance of UI Components using XML layout files in the "restluyout" directory.
- 9 Activity / Fryment Initialization
- "In the "on (reade" method of an Aethily or tragment, the latent inflater is used to set content view.

 3) Inflating layout
- "The "Layout Inflater" class is employed to instantiate XML layouts, Converting them into view objects
- val rootview = influter. influte (R. lujert. my-layort, parent 1) Acressing views , fulse)
- · Views within the inflated layout can be received programudia
- ex val my Text View = rood View. tind View By Id & Mext view > (R. jd. s) Setting Company View texts
- The inflated view hierarchy is set as the Content view
- et get Content View Crowd View



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03	Explain the concept of a Castum Dialog Box in Android
	applications Provide examples to illustrate its use
	THE STATE TO THE SAMPLE
Ans	A "Criston Digley Box" in Android is a Pof-up window that
	developed can design and constamize to suit the
	specific needs and branding of their application.
٤	It's a way to present information, prompt used inputs
151 +	or confirm actions in a visually constantized manner
<u></u>	The Android SDK provides the "Dialog" class, and
1	developers often extend it of use the " Alter Dialor"
	elass to create cristom dialog
EL	Main Activity xt
3060	to the property production was not no sather 1-18 - 23/601
-	import undroid os Bundle
- ()	import and roid X. app comput app App Compat Activity
	import android Widget Britton
	import Com. Example, myapp (nestom 1) july
2_	import com. example. myapp. R
11/1/45	Class Main Activity: App Compat Activity ()
1 19 5/5/1	V Car San
4333	override fun an Coegte Coaved Instance State: Bundle ?)
	Super on (reade (consol Instance State)
	Super on Create Coaved Instance State) Set Content liew (R. layout. untivity main)
	on ten mew (A. 19 your. 9(7)117y main)
y at i	val show Dialog Bry Hon: Britton = finition of
33	1 10 11 EN 124 70 10
ANSHYÂM	(R.id show Dialog Bux)
	Page Na Co

show Dialog Briton. set on Click Listner

val Cerstom Dialog = (rustom Dialog (this)

Cerstom Dialog. show ()

How do activities, services, and the Android Munifest Ala work together to make an Android App? Can you desin their ingin roles and provide a busic example of how they cooperate to design a mobile app?

as interest fired regulation and expensive

read to solved box there where

O tuper. Can Pray c. nyog R

me Activities Roles: Activities one the user interface components of an Android App. They represent individual green with which mens years can indepact. Each activity is a self contained unit with its own UI lyjourd. ingest Con even of Tryops Continued

3) Services

- Roles: Services perform background tasks without a ruser interfere They are used for tasks that need to run independent from the UI, such as playing musics, tetching dutes from the internet, or prepersorming others dutes long running operations

3) Android Manifest File It is a configuration file that provides extential into about the app to the Androyd system. It declares the app's Components, their properties and the permissions they requires.



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-	Example of Activity waster trans
	class Main Activity: App Compat Activity ()
	overside tran on create Coaved Instance State: Brundle?
	S Compression to the state of t
	Super on Create (socied Instance State)
	super. on (reade (squed Instance State) set Content View (R. 1 Gyout activity main)
0	
	pluj Button. set on Click Listnet
	plus Button, set on Click Listner
of record	entrol to promise the second of the second second second
	rial intent = Intent (this, Mysic Service !!
	(lessigny)
	start Service (Intent)
	Tribing to the state of the sta
11 92	1 anch a gordanit willo : Glach co
	" indivinual off source of the manife throughout
•	Distance and the state of a section of the sections
-	Example at Service
-	al as News Consider to Consider 12 Constant
	cleuss MusicService: Service()
-	
	eniverte lateinit var media Player: Media Player everride from mind (intent: Intent?): Tamles?
Ecasa	Le Lumara
-	return null
51113	Ledway to day to be a second to the contract of the Call
	exercide from on Start Command (intent: Intent ? Has ?
CHANGHYAN	111111 - 27 (PT) - 1798 : Tad
	Page No. 4

```
media Plajer = Media Plajer. (reate (this, R. raw. smr)
   mediaplaget.start()

return START_STICKY
overside fun a on Destary ()
      super. on Destroy ()
Androld Munifest File
Emunifest xmls: android = "http:// schemus. undroid.com/upk

puckage= "com. example.musicplager">
  < application
       android: allow Backup = "trye"
       androyd: icon: "Omigmaglic-launcher"
               label = "@string lapp-name"
       android
               round I con = "@mipmaplic.laynches = round"
       android
               supports Pt1 = " fine?
       andraid
               theme = " @style laptheme"
       androld
    Lactivity android in ame = ". Main Activity")
          Luction condrold: nume = "undrold. intent. liction, MAIN")
         ¿ cutegory android : name = "android intent cutegory LAUNICES"
      Untent-filter?
   Clarkwitz )
```



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4.	esservice undoid : name = 11. MusicService" 1)
131	<pre>clopplication)</pre>
	2/manitest)
last.	-2 ms beckup agentles to dell's full and red us dell's
0-5	How does the Android Manifest file impact the
-	development as an Android application? Provide an
NISOTA	example to demonstrate its significance.
Ans	The Android manifest file impart impart the desiglarment
(,	Declination of App Components
	13 aros 1951 1 dech 3 " = 12 of = 5 colors
	The manifest file declares all the components of an
	Android Arr, including exclinities, services, broadcast
	receiver and content provider
2)	Setting Main Activity
	Annatist bushis
P 61	The manifest file specifies the main arthrity, which is
	The entry point at the cipp. This is the activity
1 18	that is larynched when the app is stanted.
	(123/100)
	Permissions and Security
	a) I wish of your D. I make or south of the back of
-	The momitest tile is used to declare the permission that
	The app reguires to acress centum device grutures I data
4)	2000 1000 1000 1000 1000 1000 1000 1000
	Intent Filter
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Intent filters in the manifest file define how the app responds to implicit intents. They specify the types of arctions, cartegories and date type the app can handles.

I Committed xmlns: undroid: "http://schimas.android.em/upk/res/ the second binsbeet of an emdroyd"

Package = "Com. example. Cermenaupp") Euses - permission undovid : name = "undovid, permission: CAMERN"

android: cillow Back up: "true"

crombad: icon = " @mipmap / ic-launcher"

emodod! label = "Ostring lapp-nume"

android! round Icon = "Omipmap! ic-lume het-round"

endroyd' supports Rt1=" true"

android: theme= " Ostyle / Apptheme">

eactivity android : name = ". Main Activity"> Lintent-filter)

Laction andoord : name = "andoord intent uction MAIN" 1 Category android ! nume = " android. intent cutegory.

(/intent=41/tee)

Clactivity)

Lactivity android: name = ". Compra Activity" >

Corrice android: name = ". Camera Service "1) < lapplication)

Umumifest)



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9-8	what is the rate of relevated in Android dentel of ment 9
100000	Charles along a control of the contr
1 15 1 1 A 1	Cianificance in Creating will struct with the
	Provide examples to clurity your points.
Ans	In Android development, resources play a crucial role in
	creating well-structured end adaptuble applications.
-	Resources in Android are external elements such as
0	images, strings, layout, colours and other crossets that ar
	sepate from application code in the foll bioches
-	they are used to provide flexible lity, mainteringbility an
	support for various denice configurations.
	topour de la
U.	string Revoure
120512	smon horace times at our fatt confor colar confor the
ole	string resources are used to store deat strings that one
	displayed in the used interface!
-	Storing Strings in a selerate remove lile and is
	mininge framsight in and adopt to adopt to adopt to different
-	Screen sizes.
Qrs.	Ca 3) courses
<u></u>	nes/rapus/stringexml
	L'resources)
	1 China Manne Mana 11
	Liting name = "app name"> My App (Istring)
- 1	mesage I melcome to ma Ant 1
	21900 unces) among historia homestand
	antono brigotangh la comp
GHANSHYAM	

- 2) Drawable Resources
- territological states of sissister in store off it found 3.2 - Dogwyble besources include image and ignished used in the c · Different i regions and images coin be provided for adifferent screen densitiner. most pricolor of organismos source
- Sext dawable l'icon. pro mance temps miles buches

2 Image view acres is easily see his hock of a comment candroid: layout width sill wrap content! android! lajout-height = " wrip-content" emdroid: sx = @ drawable licon 11 />

3) color parime

131 CONTRACT (CONTRACTOR It stores color values that can be easily reused gross giross the app. This allows see consistent theming and makes it simple to applate the color scheme. winds hi whose alteresses absorbed to reporte friends a

territary stings and note for tragger

et restrolyust colour xm1

(resources)

L color nome = " por red" > # FX 0000 LICHOR) Lodor name = "carren") # goff oo [(color) L/ romnes)

Marces) of How does an Android service contribute to the functionality of a mobile explications? Describe the process of developing android service.



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is fire	Ganpat Vidhyanagar, Mehsana-Gandhinagar Highway, Mehsana - 384012
Ans	Contribution to Functionality
	tools gringer always at
1)	Builty sound processing
- 10	the trails are not all the street to the trails and a state
	Services are ideal for turks that should continue running
	even when the app is not activity interacting
	with the uses
-	Example include playing mysic, fetching duty from the internet.
6_	internet have the transfer to the state of t
01	Inter-Component Communication
	Inter-Component Communication
6 00	Services can communicate with other app components,
Fell	such as crefivities or other services, using Androad
200	inter-process communication mechanism like Intent-
	and Binder.
- 1	
3)	Long-Rynning operations
-	Sansicas and and the has are to
	Services are switchle too executing ling running
	afternations, such as sile download, synchronization with service, or continuous sensor monitoring.
4	Foregrand Services
	gersistent notification, ensuring that goe years
	coward of medication, ensuring that one user is
GHANSHY	AM
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Process of Derreloping an Android Service . Crayte a Service class Create a new class that extends the service elass. This class will contain the logic for your service. class myservice: service () hat some empoly about the mark override fun on Bind Cintent: Intent?): I Bindea? octurn mull maitininement training of the errenaide from an start Content: Intent (), flags: Int, start 2d: Int return START, STICKY orientale from and estarges 2. Declare the service in the munifest - Declare your service in the mandraid Manifest.xml the to let the Andraid System know about it. Liservice condroid : nome = ". myservice " 1)

mi

