

THE PERSON NAMED IN COLUMN TWO	Community of the Control of the Cont
2	CETTSPES: Mobile Application Development
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0.01	Assignment =1
1	
Sheipson .	Based on your understanding identify a
	their and plateman explain from the com-
	1 10/000 d CIPP developer -im-1 historian
2->	in the mobile app industry.
0 30 5	As per may knowledge 111
B. Brook	the mobile upp industry that has was
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Part of a	THE DE PROGRESSIVE MEL CINDS OF THE
	The state of the s
	expenienced discetty through web-browsers.
COM	
	imporet on emdooid app developers:
0	Caoss - Platform compatibility: PWAS use
	Colomos
	work seems least cichoss various plutforms
Delin Villa	had to consider apporting android Developers
	1 1.11 PWAS-Clongside
	accessibility.
6	3 Colomos I some out
	to themced user experience: pwas climed to
	and more angusing user experience which
	and think or our of the contain
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1 1921 7	Page No. Page No.

on improving the quality and performances
of their apps to complete effectively.

(3) Progressive Enhancement! Developers needed
to adopt progressive
onhuncement streetegies to ensure that android
apps reminded competitive by offering progressive
and responsive user experiences, similar to
PWAS.

- Impact on business in the mobile app industry. (1)

(1) cost savings Business could potentially save on development costs by investing in a single pwa that works across multiple platforms, including Android reather them building separate multiple apps.

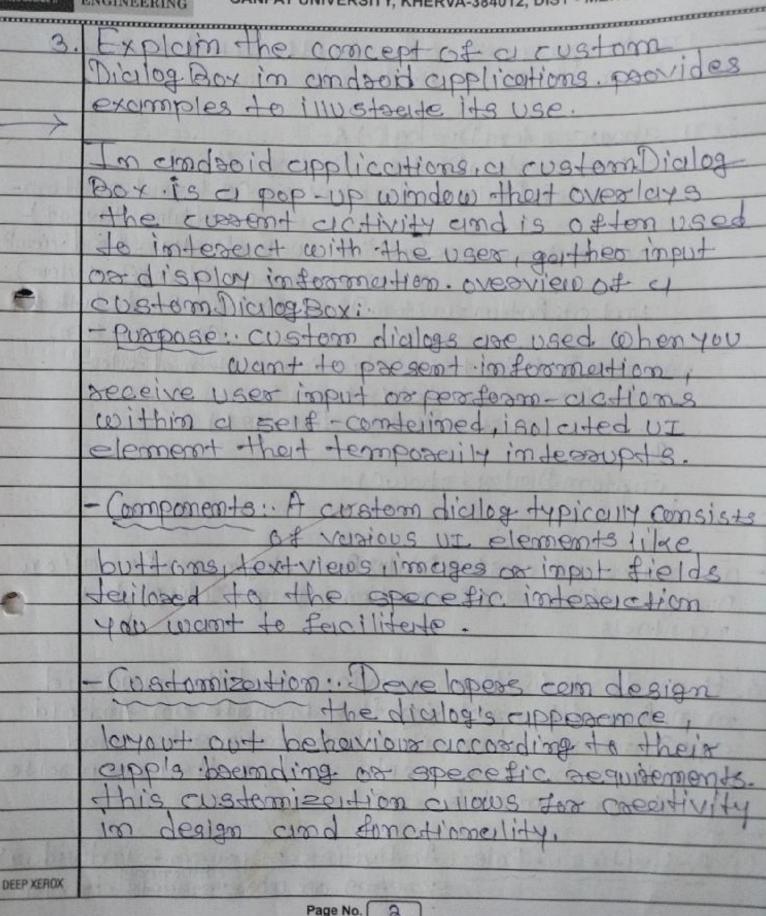
- DIncreased reach: PWAS enabled business to reach a wider audience including uses with amboid devices without relying solely on app store distribution this broader reach a could lead to increased user acquisition.
- 3 Improved emgagement: The focus on deliquening upp like expeniences through pwas encouraged business the paioritize user emgagement and retention, ultimately benefiting their mobile strategy.
- 9 Competition and Innovation: The size of PWAS introduced competition dairing business to immore their android apps to keep



3/	with envolving user-expectations
- 681 8	service and to the service of and the service of
2.	Wheet is the purpose of an Inflator of
2.52101	layout in Android development and
8 4	how does it fit into the aschitecture
SIVERS	of Android layouter
	trongening and the bonders confiberent after the bonders
	In Android development un Influter is
	el moucial component that is used to
(P 10	in stemplicate or limflate the layout
341	My files into their corresponding view
. 100 (2)	Objects. The paoces s converts the xml
	code, which defines the staucture and
#3 10 1 D	cittài butes at ur elements, into actual
	objects their cem be mainipulated
	programmatically.
ALAR	Here is how it fits into the co-chiteoture
DIE W. M.	of android layouts:.
1	Colonial to Pilott
-	Deyout + mi files: In android, UI elements
me11.19	Close defined in vm1 files
3.0	within the restayout diseasony otem
2011	andsoid project. These xmi files contain
	the istaucture of the user interferce,
	specy fring things like buttons, text fields,
h	images rete as well as their attaibutes.
	2) Influting 1 avante : whom
la saliren	2) Inflating Layouts: when an android app
DEEP XEROX	files need to be converted into actual
	Page No. 2.

- view objects that cam be displayed on the screen. This is whose the Inflator' comes in.
- 3 Influting with context: The Influter requires per form the inflution process. the context provider essential information about the current sterte of the application.
- Attaching to pasent: The Inflator also horse the option to attach the inflated layout to a pasent view if specified. This allows the newly considered view to be alternatively added to the specified container within the pasent view.
- The soot view of the influted layout, which con them be used within the application.
 - 6 Mamipulating views programmatically: citter inflations, developers com programmatically intersect with the views, such as settling text applying styles.
- Displaying in the UI. finelly, the manipulated views can be added to the user, intersferce using methods like 'set content view' or by adding them to the view hierarchy.





- Simple example of ascerting and using a custom dialog in Android.

fun showcus tem Dialog () s val custom Dialog = Dialog (this)

custom Dialog. set content view (R. layout. custom-dialog-layout)

VICIL attamessage Text View = custom Dialog. find view By
Id < Text view > (R. 1d. msg Text view)

Valok Botton = custom Dialog. Lindview By Id & buttons (R. id. ok Btm)

ornessage Text view. text = "This is a customed ialog!"

OKBUTTON-Set onclick Listener &

Custom Dialog - dismiss ()

Custom Dialog. show()

- use cases of custom Dialog Box: . login. confirmation Dialog. settings. In formation pop-up. Media playback controls.
- 4. How do activities, services and the android manifest tile work together to make an Android app? can you describe their main roles and provide a busic example of how they cooperate to design a mobile app?
- 1) Activities: -Role: Activities sepresent individual screens or ut elements in an



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	Android cipp, they menuge in
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	the state of the brick good components
7 7 7 7 7	D Services: Services use buckgoound components that permorm long summing
	lesson lime on boundle delake that don't
3 711	sequise a user intendence. They rain sum
	even it the app's ut not visible.
•	(a) Andonid Mamifest Lile: This is like the
	3 Android Munifest file: This is like the cipp's bluepaint. It
	declares the app's tomponents and defines
· · ·	how they interest with the undoord system
	and other components
SERVICE STATE	City of the Management of the State of the S
	example: In Androidmanifest. 7m1 file is
0.7	like the app's bluepaint. It declares
	the app's components and defines how
100 219 24	they interact with the android system on
	to undeasternd your cipp's staucture and
	behaviour.
	Class Main Activity: Applompat Activity() &
	Overside fun on Groute Csuved Instemce steite
	:Bundlesi)
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	Super. om coeaste (saved Insterncesterte)
	Set Content view CR. layout- activity - main
TONY	Stellat Seavice Butten. set on Click listonese
DEEP XEROX	Val seguice Intent - Intent Chair Malificalia
	ral sessice Totent = Intent (this, Notification) Page No. 4, Sesvice: (lass Java)

test Service C Service Intent) class Notification Service: Intent Service ("Notifi coution-Service") { overside fun on Hunderntant Cintent: Intent) ¿ 3 Cliva= ! Frakai) &i 2 3 Create Notification() pairate fun coente Notification () & Val Chammel ID = " 707- Chamme 1" 1 & (Build- Version-SDK - In+>= Build- version - codes-0) 5vial name = 'my chairme! Val most fication Momeger. Coeaste North Ficertion -(channel (channel) NOI Builder = Notification. Compact. Builder Cthis, chemne IIDI) · get small I com CR. doewelble · ic _ launcher - feac goound) . set content Text E"This is notificaltion from service.") (3) How does the android Mainifest file impact

the development of un undoold applications

posside un example de demonstrate its significance



-	The Android Munislest file is a coucial	
	Component in the development of cin	
	Android application. It serves severel	
- See al	i'mpostemt purposes rind its content	
	significantly impricts how the and soid	
	system. interects to ith and manages	
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andsoid: name = ". Main Activity"

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action. MAIN' ">

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Clactivity andsoid: name = "Secound Activity">

Cactivity andsoid: name = "Secound Activity">

Cactivity andsoid: name = "Secound Activity">

Clactivity

6. What is the sole of sesousce in Andsoid development? Discuss the vasious types of sesousces and their significance in coediting well-stouctured applications. Provide examples to clasity your points.

Resources play a fundamental sole in Androide development by providing a structured way to mainage assets, volves, layouts end other elements used in your app. The various types of resources and their significance with examples.

1 Layout Resources:

21 application>

1/manifest

-type: YML files in the 'sest layout'd is ectory.

Significance: Define the structure and appearance
of the apply uses interfere.



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- C- + 1	ex. cictivity-mein, xmi defines the layout
	Of your main Activity, specifying UT
	components like hottane last views
	and their assem goment.
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	Chagged : Id = (CD+1d my Bota)
200100	condecid: layout-width = coseip-content
	andoold: ayout = height = " concer content"
	android: text = "click. Me"/>
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	Describle Resource:
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The same of the sa	sesolutions. I tonguas that images look?
	coise eind clear on screens with
	voisituins pixel demontiès.
DEEP XEROX	example: ic-launcher-+mipmap-halpi, mipmap-
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@ Colour Resource: type: colours defined in trail files . 'under 'bestralues! significence: store color volves, ensuring Consistency In the cipp's design example: 'ses/values/coloss. xml. de fines co louss - sesources. < co 100 norme = "poimory - co 100: "> # 007 A CC/co 1002 (5) Dimension, Resousee: Hype: Dimensions diffred in xm1 files & under bestvalues!.. significance: store dimension values ensuring ex consistent layout. example: . ; ses Noives / dimens. xm1; defines 1 imension resources. @ Rolw Resouxes: Hype: files stored in the 'res bow' disectory. significance: 5 tore non-xm1 files such as Is: N desta iciudio, video example: 5 tose a JSON file for exp configuration. 7. How does un undooid service contaibute to the functionality of a mobile explication) Describe the process of developing on Android Resvice! Contaibution, of Android Services. Obackgoovand Processing; Service 0111000 upps to



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	D'Long-aurming Opereillions: Services cise:
2314	time to complete such as playing music
CENTER !	
Alerela 20	3) Inter-Component Communication: Services
	onerble
	Components like cictivities, booking coist.
Posts	Deceives and other services to
	Communicate with each other efficientian
	a with each other claims
1 som	4) fence ground Service: Android Services com
borns	oun in the foreground.
	This is useful for feutures that reavise
10.53.13	Oundoind also just sperit from like winsic
	pluyback process of Developing cin
	Oladooig Sconico:
	Define the service amos in a some
	Define the service cluss: Caeate a new
	cluss that extends the service cluss
	that extends the sperice class.
	Seattle (10155).
	O Companie gonino in manifest. Dades
	Declare Service in mainifest. Declare
	in the Android Manifest. xml file to inform
	the augusty anstern apontige existence
DEEP XEROX	Clard configure14/on.
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- 3 steps of Bind the Service Decide wheather you want to stepst you want to stepst use great service or blind it to other components.
- DImplement Service Logici. In service class, implement the specific implement the specific logic your service meeds to per sorm i'de tesk.
- 3 Hundle lifecycle: Release resources when and comsider using 1 stopse 180).
- B foreground. Service: If your service needs
- e fficience to minimise pattern nache.

Q