

	GANPAT UNIVERSITY, KITETYA SOTOTZ, DIOT METISTAM (MOS)
	Assignment-1
	Popularity and modific standard to bear etc. there is a
4	1) Based on Your understanding, identify a recent
	Dosiness trond that has influenced the Android
	Platform. Explain how this trand impacts Android
	plat form. Explain - 1100 This Travel intacts making and
5	app developors and businesses in the mobile app
21.53	Industry.
U	=
Y —	-> One recent business trand that has influenced
	the Android Platform is the growing demand for
	mobile gaming.
-	-> increasing popularity of Smart phone and the
•	advancement In technology, more and more
	Poole are turning to their Android device
	for gaminy.
4.0	-) It has also oronged up new oppostunities for
	businesses in the mobile app industry, as they
	Can tap into the locative gamins market by
	Greating and monetizing onyaging and impossive
	gains experience for android user.
77	gaing chiesience for undroid 1500.
5.	177: 1 1:01 11:00 1 10
	-> This trond impacts Android app developor
	and businesses in the mobile app industry
	by Croating a huge market for gaming alls.
	-> NovoloPors have the oppositinity to create
	innovative and addictive yampe that Cutas to
	the interest of android users.
	-) This Can lead to incroused downloads, user
	Engagement, and monotization through in-all
	Purchass or ads.
	Page No. V.R. Telecom & Xerox

- -> Businesses can also benifit by laveragine the Popularity of mobile gaming to Promote their brand reach a vider audience, and generate revenue through Partnerships or sponsorships with game developors.
- -) Over all, the demand for mobile gaming on androis Prosents a Valuable offortunity for developors and businesus to thrive in the mobile are industry.

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2}	What is the Purpose of an Inflator of layout
	in Android development, and how does i't fit
	into the Architecture of Android layouts?
_ =>	
_	-> The Purpose of an Inflator in audroid development
-	is to take an XML Lagort file and Convert it
	into Corresponding Vion Objects in memory.
<u></u>	-) It is responsible for Parsing the xml file,
	Creating the necessary View objects , and
	Softing thoir attributes based on the information
	Provided in the xml.
	-> In torms of the architecture of Android
V2	Lagorts, the Inflator Plays a Covoial role.
	when an activity needs to display a latout, it
	Uses the Inflator to Convert the Xml logort.
	file into a vier hierarchy.
	-> The Inflator Participates in the Process of
	Croating the UI and Populating its Contouts. It
	travorso the xml file, Create the necessary
	View objects and attaches them to their
	Parent Containers. It also handle the attribute
(Value Specified in the XML, Euch as Setting
	text, Colors, Sizo and other Properties on
	the Corresponding Vier object.
\$ 	-) overall, the Inflator is a fundamental
	Component in Android beforts as it bridges
	the gas between the xml Based leyout file
	and the actual View object that Compose
	the user interface.
	Page No. V.R. Telecom & Xerox



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3)	Explain the Concept of a Custom Dialog Box in Android application. Provide example to illustrate
	Android application. Provide example to illustrate
(c	its use.
=>	"I ste James 1 - alter-1- trought Glasters
	-> In Android application, a Custome DialogBox is a
_	user interface element that allows developers
a a	to Create Customized dialog Windows to Prompt
<u></u>	the user information or display important
,1	mossayo. The transtant to the
	-> It Provides floxibility in terms of appourance
	and behavior ComPared to the Standard Alurt
	· Nidor Provided By the Android SOK.
	2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	Example:
	Lindia of the first bright and the
3	Main Activity. kt:
3 (place Dichard Context Context : Victor Context
	imPort android, os. Bundle
	imPort android. widget. Button
I STOWN	imPort androidx. app ComPat. app. App ComPat Activity
	Citize in some to the contraction of the second
VD "	Class MainActivity: APPComPatActivity () of
7 6	Ovorside fun on Croate (Saved In Stance State: Bus)
	& Guler. on Croate (Saved Instance State)
	Set Content View CR. layout, activity-main)
	Val Dialog = find Vior By Id LButton (R. id. 6tm)
	Picloy. Sotomclicklistery
	Val Custom Dialox = Dialox (this)
	Custon Diclost . Show C) yyy
	Page No. V.R. Telecom & Xerox

activity_main.xml:-Candroidx. Constraint Layout. widget. Constraint layout Xmlus: android = "http://schomas. android. Com/apk/res/ android: 1640vt-width = "match Paront" android: layout-hight = "match Parant" Xnlus: app = "http:// Schomus. android. Com/apx/205-auto) L Button android: id = "@tid/btm" android: leyout-width="wgap-Content" android: lapout-hight = "wyel-Contant" app: latout - Constraint Stat to Start of = 11 Paranti app: layout - Constraint TOP _ to Top Of = 11 Paront" android: text = "Custom Dialox Box "17 </androidx. Constraint levoub. widget. Constaint levouts Vialog.kt: imPort android. app. Dialog imPort android. Content. Context imPort android. OS. Bundle imPost android. widget. Button class Dialog (context: Context): Dialog (context) & Overside fun on Create (Saved Instance State: Bundolog) [Suldr. on Create (Saved Instance State) Set Content Vior CR. Luyout. activity-dialox) val btn = find Vion By Id (Button) (R. id. btn) btu. Soton Clicklistoner dismiss w



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	activity-dialog.xml:-			
	(lineastayout)			
	xmlns: android="http:// Schemas.android.Com/apk 12es/android" android: Layout-width = "match-Parent"			
4				
	android · Layout - hoight = "Word-Contont"			
	Xmlns: android=11/http:11 Schames. android. Con JaiPK			
_	1+06 15"			
	android: orientation = "Vortical"			
	tools: Contant =11. Dialod 11)			
	<text th="" view<=""></text>			
	android: layout-width=11woap_Content"			
	android: layout-hight= "Wrap- Content"			
	android: text = "This is Custom Dicloy Box"			
	android: id="@tid/tv">L/Toxtview>			
de				
	(Button			
	android: id= 11@tid/btm"			
0	android: layout - width = "match - Parant"			
	android: latort-hoight="waap Contant"			
	android: foxt=" Ok "/>			
W				
	(lineas layout)			
10				

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	south to the contract of the total
4>	How do activities, Services, and the android
Too al	Mainfact file work together to make an
	Android app? can You Doscarbo thoir maintoles
	and Provide a basic example of How they Coolers
	to design a mobile app?
=>	
	-> Every app Project must have an Android mainifes:
	file at the root of the Project Source Cot.
*	-) the maifast file describes essential information
	about your app to the Android build tools, the
	android operating System and google Plat.
	-> The Component of the app which include all
	activities, Services, broad Cast Jeciver and
	Content Providers.
	-> Activities:-
	Activities are the building blocks of the uses
	interface in Android GDPS. they represent individue
	Screen of usur interface.
	'Example:
	Activities hardle the UI Dosign and
	manage the UI State. Nisplay the Content to Usur.
	-> Services:-
	Sorvices Parform backfround tasks indoportely
. 8-0	of the UI, ensuaind task Continue Junning even
	when the app is not in the fore ground.
	CXample:
	Service Gro Rusbersiblie for long oberation.
	Page No. V.R. Telecom & Xerox

Such as file download, music Playbuck otc,

- Android Manifost xnl:-

the Androidmanifest. Xml file is the app's Configuration file, Broviding essential information to the Android System about the app's Components and behavior.

example:
the manifest file is used to specify how the cop intract with the android system.

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£	How does the Android Manifest file impact the
	development of an android application? Provide
	an example to domonstate its Significance.
	=>
	-> Androidmanifost. xml file Significantly impacts
÷	the Nevelopment of an android application in
	Saveral ways.
r	-) It Sorves as a Covoich Configuration file
	that defines the apple staucture, behavior
_	and interaction with the Android System.
	and the factor of
	t. ComPonent Peclaration:
	The manifact file declares all the Components
	of the apprincipating activities, Sorvicios, broades
	Rociver and Content Providers. All ComPonent
	tell the Android System how to manage and introt
	1 it this C D a La
	WITH THIS COMPONENTS.
	2. Parmissions:
*	Parmissions Your app roquire to access
	System rosovaco and user data. Properly declasive
	Pormisions in the manifost informs user about the
()	app's Capabilities and reguests their Consent.
	Devision of the Consers.
	3. APP Configuration:
	the manifest file include motadata and Sotting
	that Configure Various aspects of the app, Such
XI.	as its thome, i Con, label, oxientation, and launch
	mode.
	Page No. V.R. Telecom & Xerox

4) intent filturs :-Intent filter are defined in the manifest to specify hor your and rasponds to external event and 804vosts. for example, You Can desine an intent filted to hand to oponing Specific file type. is the standard burdent all the Example: (USOS-Pormission android: namos " android. Pormission. < activity android: namo = ". Camora Activity"> Kintent-Filtor) Kaction android: name = "android. intout. action. Catogory android: hame = "android. intent. Catorof" (lintent-filter) Mactivity - Comment of the last of the Lapplication android: label="My Camora app" android: icon = 11@ dranable / Camara - icon こさいいかいこうころしょかつ。

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6	what is the role of resources in Android
100 100	development? Discuss the Vazious types of
	xecources and their Significance in Creating
Ţ	Well-Structured applications. Provide example
*	to Clasist Your Points.
=>	-) [-] [-]
9 8	-1 Rosovaces in Android development are essential
<u> </u>	for Providing Various type of Content to Your
	app, Such as images, Strigs, latouts and more
	they hold in organizing and managing the
	app's Content Solarately from the Code, making
	it casion to update and localize your app.
fore 12 lie	-) Store imagion incl. and graphin true In
	Tyles of Resources:
5 1	-) Fire of 19 19 19 19 19 19 19 19 19 19 19 19 19
	J. Latout Rosovacos Cros/lanout/2:
	-> Rofine the Stoucture and assangement of
_	usor interface etements.
	-) Golarating VI layout from Code Promotos
440	maintainchity and adaptability across
	Serice and oxientations.
12.11	-) Example: - res/layout/activity_main.xml
 .	Llineastayout 2 2000 sat stated of
	Xmlns: android = "http://Schames. Com/apk/ses
	landroid"
	android: layout-width = "match-larant"
451770	android: layout-hoight="mutch-Paront"
(6010)	android: oxientation = "vertical"}
9	(MONEY CONTRACTOR OF THE PARTY
	Page No. V.R. Telecom & Xerox

<Tox+ View android: id = @tid/tv" android: layout-width= "wrap- Content" andfold: layout- hoight="Wrap-Contant" android: taxt = "Hollo"/> C/Lingas Layout) 2. String Rosovace Class/Value/String xml):--> Store text Strings used in the GPP facilities localization and intornationalization. -> Allow for translation of app Contout into different language without Changing Code. -> Example: (8850V8COS) 25tring name=11F_Namouy Yeksh 2/5tring) (String name="L-Name") Patol (1String) [180 SOUX COS) 3. Wravable Rosovaco Class/danable/):--> Store images, I cons and graphics used in the app with Vasiations for different Screen densities. -> Ensure Proved image resolution and quality on Various devices. -> Example: - residerable (ic-launches . Put) 4. Color Resource Cresivalues/ Colors ixm 1):--> Notine Color Values Used throughout the app for Consistent thoming. -> Promotos Visual Consistancy and make it casies to vodate the apple Color Schome. (resources)

- (Color name="Primart-Color")#007ACCL/Color) (Color name="accont-Color")#FF4087L/Color) LIXOSOURCOS)



¥.	5. Style and Theme Resource C'res/Values/Stylu, xmi)
	-1 Posing Styles and thomas tox 01 diamonds
	all a Caracictant Styling,
	M Lac it Prover to apply and maintain
	Consistant look and tool across 7100 and
	-> Example:-
\sim	(YeSovaces)
	(Style name = "App thome")
	Parent = 11 thoma. APP Compat. Light. Dook Action
	Bar 1)
	LIStule)
	(18050V8CC35)
-	6. Ran Rosovaco (ros /ran/!):-
	-> Store your data files, Such as audio or video
	to be used in the app.
	-> Allow for the inclusion of binary data or
	-> Example: - Yoslaw/ Gudio. mp3.
	-> Example: - yos/raw/audio.me3'.
	And the second of the second o
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	Page No. V.R. lelecom & Xerox



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7	How does an android S	ervice Contribute to the
144	functionality of a mobile	;
	the Process of develop	
-		ent = tastan ter
	-> Android Service is a	Component that is used
	to Perform operations o	
	as Playingmusic, hand	
C	interacting Content Pa	
10	- Carport + sint + wood	The state of the s
	- the Sorvice Jus in the	a Backfround idefinitely
	even if application is	
	-> Sorvice Can be bounde	d by a Component to
	Postosm in toxactivity	and inter Process
	Communication.	1 . 7
	-> DovoloPing an Android	Sarvico:
	f. Croate Service Class	<u> </u>
	-) Create a Java or	Kotlin Class that extends
	the Service class	or its Subclass.
50	- Implement the So	ruices Core functionality
	within this Class	Hiscally within the on Great
	and on Start Comma	und mothods. Ensuro
1	that the Service e	
	indopondantly in th	re book froud
	2. Voolare the Service	in the Androidmanifest xnl:-
N	-TROgister the Service	ce in the Andrindmanifest
	file . Specify its name	and any organized Posmission
	Page No.	V.R. Telecom & Xerox

3. Start and Stof Sorvice:

-> You Can Start a Sorvice using an 'Intent' from and Component of Your appor even from other apps. Use Start Survices (intent) to initiate the

Sorvices execustion.
-> use I Stop Sorvice (intent) or Stop Self Wifrom within the Service to Stop it when it's no longer needed.

-) example:-Val intent = Intent (this, MySurvice) :; Class-Jave) Start Scarice Cintent

Level to the second or the or

4. Nostrot Sorvice:

-> Sorvice is no longer used and is boint dostor Jesovace Such as threads, Jegistand listandas JOCONOVS, OtC. topiconii: it bernot il min sine i

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