

	Assigment - 1 [MAO].
	1 Based on your understanding, identify a recent Buisness tred that has influenced the andmid platform. Explain how this tound impact and app developers and Buisness in the mobile app industry.
	> one of the Buismess trends that was influencing the and poid
•	profferm and ampaching the android app developers and
	Buisinesses in the mobile app industry was the emergence of progressive web App (PMA's).
	- PWA combine the best feature of both web & mobile apps, providing uses with gost loading times, affine functionality and the ability to south them on their device's home screen there how this trend impacts Android app developers &
	(1) (2005-platform compatibility: Developer can create a single PNA that for well on Both
	suprove mobile + desktop device
	(3) lower Development costs: - come they require single code base to can be updated more entity
	(4) Offline functionality: PNIA Con work offline or in law- yetwork (5) Reduce app store- Dependency: PNIAs can be accessed directly that
	a Web prouser, deducing the depe
	ou app stores + their associated fe
	(6) App discoverability :- PMA can be discovered through search engin
	unking them potentially were accessible to users who might not actively search for meno Page No. 1 app on app store VR. Telecom &



EXXX	amun	
		(1) faster iteration: This allows buildnesses to respond to used
		early at a sugaret change sugar 7 aproxi-
A-market and		L. Dela District I committee - Philas are served on tilly
		adds a layer of recomity to user data.
	2	hibat is the purpose of an antiator of layout in Androich
		development & how does it fit into the architechture
		of Android Layouts?
	->	in Android development, an inflator. (short for Layout inflator)
		is a crucial component used to create anstonce of Androice
		view object from XMI Layout resource files. il plays
		a significant roles in the architechture of Modraid Layouts
		by facilitating the convention of XML layout descriptions
		is a suite of the contract that can be displayed on the
	-	into Actual view objects. that can be displayed on the screen, there thow it fits into the architechture?
		ASCREEN FIRST THE WALL STORY
		Android layouts:
		(1) rmi inyout files ? In Android App development, vi layout are often design using rmi files.
-		are orthography orthography composition for the composition of the com
_		(4) Layout Inflata ? This is where the layout inflator comes
		into play its a desuite provide by the Anciopid dyskin that passes this xml
		layout file & creates the corresponding
		view object at conting in other words.
		it inflates the xml layout into actual
200		view objects.
		(3) programmatic manipulation! once the xml layout is inflated,
		developer can programmatically manipulate
		and customize these view objects
	1	4) Adding to the Niew hierarchy! After customizing
		Page No. 2





	developers typically add this inflatored view objects to the
	developers typically add this inflatored view objects to the view hierarchy of an Activity & fragment these hierarchy determine how the UI components are organized on the screen.
<u>d-3</u>	Explain the concept of a Custom Dialog Box in android Application Provide examples to illustrates its use.
7	element that display a pop-up or overlay on the screen to provide anformation, gather user input, or prompt the coser to make a electision.
_	Costom Dialog eire typically created by extending the Dialog' class or by intrabing a custom layout.
	Custom Appearance - Custom Junchionality.
	Example
	Custom Layout xml file (eg. 1 custom-dialog-layout xml)
	Linear layout xmls: android = http://schemas. undroid.com/apx/resortion
	undroid: layout height = " wordp content" undroid: Orientation = " vertical"
	and roid: pading = "16 dp">





	GANPAT UNIVERSITY, KHERVA-384012, DIST - MEHSANA. (N.G.)
	LTEXT VIEW
	android: ill = "@+i'd dialog-message"
	android: Layout-width = warp-contuty
	and roid: Layout- height= "wrap-context"
-	android! text = "this is a custom Dialog hax"
-	android: textsize= "1850"
	android ! Layout-gravity = " centa" 1>
	1 Button
	android: i'd = "@ iddialog_button"
	android ! Inyout-width = "wrap-content"
	android : layout height = " wrap-content"
	cindrolid: text = 11 Dik"
-	and soid: Layout gravity = " Centu"
	and solid: padding = "8dp" 1>
	Allinear Layout >
•	Kottin Code
	import android app. Alent Dialog
	IMPORT and mid DC D.
	import hatting and mid could
	import kotling android. Synthelic main custom-dialog-layout und import android apprompact app. Apprompat Activity
	Class Main Achivity: App Compat Achivity ()?
	Super oncreate (squed Instancestate: Bundle 9) ?
	Super on creak (saved Instance State)
	SetControllier (1)
	Set Contentuiew CIR. layout. activity-main). Page No. 4
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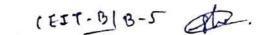


	GANT AT UNIVERSITY, KHERVA-384012, DIST - MEHSANA. (N.G.)
	Val implator = Layout Inflator
	val Custom Dialogniew= Infratox infrate (R. layout- Custom-
	Mal builder = Alent Dialog. Builder (this), set View (custom Di
	val custom Dialog = builder - (reate ()
	Custom Dialogniew, dialog-button-seton (lick Listener &
	e (ustom Dialog. dismiss()
	custompialog. show()
	4
	\$.
4.	work together to make an and soid app? can you describe
	their main roles & provide a basic example of how they
	cooperate to design a mobile app? in Katlin
>	This work together to provide The app functionality & Degine
	its Behaviour
14.	0.1 1.111-10.0
	o An achivity repensement addingle screen with a vier intogor
	it serve as a DI layer of your App.
	· Achivities handle reser intraction, such as button click
	imput, & display the appropriate of elements.
	· Activities are display in the Android -manifest fire to
	define obeir entry point & configuration
	V
	Page No. V.R. Telecom & Y.





MANAGEMENT	& genrice.:
	a a deruice is a component that perform background tastes
	without a recen Interface
	od dervice sun in Background and are used for Long-running
	operations, such as praying musice, fetching data from
	a server or regarming periodic tasks
	o dernice are declared in the Andmid manifrest file to
_	especify their attributes + behavious.
.5	3. Android manifest File
	a the android manifest file (Android Manifest. XML) is an
	essential configuration file for your Android app.
	o it contain wet adate, about the app, including its companeds
	Cachinities, dervice, Broadcast Recience, etc), permission
	A other dettings.
	· the manifest give depines how different app companely
	Interect with the android system & with each other
	example
C	Tapp with a activities of background service)
(1	(main activity and second Activity) and a service (Myservice)
(o)	Define activity in the Android manifest file (Android manifest.xm
	in manifest file, declaring the activity.
	Page No.





		GANFAT CHIVETON T, MILLION CO.
•	munn	Lactivity and soid: name = ", main Activity">
-		() akake Gules
: 		(whom and mid yame = " and mid intent achien mail
_		Lastegary android: name = "android intent category Lounde
_		1 / intent-Bilton>
		Llachivity>
-		Lactivity android: name = " second Activity" 1>
		Liervice android: name = ". myservice" />
•_	(3)	Creating the Kottin code for Activity & Services.
		omain activity is set as. The launches activity, which means it
		the entry point q the app.
		o'secondary activity" is another activity we can navigate to
		" my service i's our hackground service.
_		main Achivity-Kt
		class main Activity & Apprompact Activity ()2
		1/ Amplementing main Activity logic.
		Second Achivity- KF
<u> </u>		Class Second-Activity: Apprompact Activity () ?
		11 Implement secondactivity logic here
		3
		mysenvice kt
		· /
		Class myservice: Service ()?
		Overvide fun on Bind (intent: Intent?): I Binder 9 8
		11 imprement trackground service logic here
		rehan null
		3
	3	3



(4)	Intract Between Achivities of stast the Service: - Marigation Between achivities using Intent and stast the Service resing 'Stastservice'.
	navigating to main Activity to secondactivity.
.	Val intent = Intent (this, elecond Activity & : Class java) Strutt Activity (intent)
	starting myservice
	val service: Intert (this, myserinice::class.fava) Startservice (service Intert)
	how does the and soid manifest file impact the development of an and soid application? provide an example so demonstrate its alignificance.
-> .	Here, are dome key way in Which the android manifest file impact the development of an Android app.
	L. Component Declaration.
	Pon meladale
	4. Potent filter
	5. Achinity Launches, Configuration
	Erample -> Page No. 8



	1. compant declaration
	e. permission:
	- you specify neumission like send smi to send message,
	"Recieve-sms' & Internet' to connect.
9	app metadata
	Like app's mame, version, & package mame, for example:
	Lappuration
	android ! label = " Try Messenger"
	and soid: icon = " @ mipmap / ic - launher">
4	intent Filter
	- you can define intent filled to allow four app to open whe a user
	Chick on an sms 11'nk like sms: ' or 'mms: ' URLs
	XML
	Lorchwity undonical income = " compose mercage Achivity">
	Laction android: name = "android. in tent-cichon-VIEW" />
÷	Lalagory android: name="android: introp. category: DEFAUIT"/> Logata android: Scheme "SMS"/>
	A data android: scheme = "mone" (>
	Alinbat-filler
	Leachivity >
0-6	what is the role of Resources in undroid development? of an
	and noted application Discuss The various type of resources &
	their Significance in creating helt-structured application
	provide Example to downity your point.



they are used to provide various type of data to your app, enabling it to adapt to diff devices, screen sizes, languages, & consiguration Resource are resential for maintaining a Hean seperation of concern, improving maintainability, and ensuring your apps seen integrale & hehaviour are consist across various device & configurations.
Mero, are the unrique type of resources in Android development & Their significance
1. Layout Resource - (xMl files) define the usex interface of your app's screens, specifying how we element like button, texture & images are organized. - they facilitate creating dynamic & responsive layout for diff screen size & orientations. ex res layout lactivity-main.xml
A linear rayout rmins: android = "http://schemas. android.com/apicles/ android:hayout-wildth = "match-parent" android: Layout-height = "match-parent" android: orientation = "leind"
A Button A gardroid: id = @id anyButton" android: layout width = "comp-contat" android: layout height = "comp-contat" android: text = "Click me" />
Allinear layout >



-	8	Dogwahle Resource
	,	. Include smage, i con + other graphical Assets used in your
		app user integare.
		ex "res Idrawable I've Launcher-png"
		J.
	(e)	String Resources.
		o store text & othing viterature used in your app-including
		Ul lables message + prompts
_		* Example 'restuatues Istnings. xml'.
		Astring name = "app-name"> myapp & 1string>
	(4)	1010x BEDONAG.
		· color value used in your app! UI, making it easy to maintan
		a consistent color scheme.
		er res/values/colon.xml
		Lialor name = 1 primary-lodos "> # 007acc xlcolor>
-	15	Discontinue Occasionales i
-	(3)	Dimennion Removes:
	-	tx rest values I dimens. xml
		Kdimen name = " margin-lame "> 16 dp x 1 dimen>
	1.1	
-	(0)	style Resources.
en re	-	· define Reusaste sets q attribute, such as textsize, text color &
		layout properties ex restualves Istyle-xml.
_		hayout vanients (eg. Landscape (portrait):
		· use to optimize the Ul for each orientation
		- real rayout - rand lachivity-main. xml



CHARLES OF THE PARTY OF THE PAR	
0-7	+low does an android Service contribute to the filly a mobile app?
	Describe the Process of developing an Android Service.
	here, how an android service contribute to the functionality of an
	mobile app
	(1) Background Processing
	(0) hong-Running operations.
	(3) entercomponent communication
	(4) Improving user experience
	J
	here is a basic overview of the process of developing an Andrew
=	Service.
	1. Creak a service class.
	- extent a genuire class
-	- overible ourseate(), onstart command (1 & an Destroy() methods.
-	to define service Behavior.
	01
	Classmyservice: service () {.
-	Super oncreate ()
	a soft. One read of
	Overside for unstart commant cintal : Intal ? Clays: Int, start Id: Int):
	rewint START-STICKY
	3
	overnide for an Destroy ()1.
	sleper-on pertoy()
	3
	oversid fun angind (intent: Intest ?): I Binda? &
	return not
	3
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,	4) to create Declare the Obenice in the Android Manifest xml:
	& service android; name = ". Myservice " 1>
	9) Start or Bind to The service - wing start Service (intext).
	- bindstaulie (inter, seavile connection, flags)
	4) implementate service logic: 5) Handle service liferyce
	(6) communicate with other Component.
	(4) Pest A Debug.
	Ch'll
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