

U.V. Patel College of Engineering

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1)	Recent business trend wh
	all qualities are made and all a
0.1	As Per my knowledge one noticable trand in the
	As Per my knowledge, one noticable trand in the mobile app industrys that was influcing the Android platform and the rise of progresive web App (PWAS). PWAS are web applications that often app-like
	platform and the rise of progresive web App (PWAS)
	PWAS are web applications that often upp-like
	expesiences disectly through web browsers.
0 -	Impact - on Android Add Derelopess:
	Impact - on Android Add Desclopess: Cross-platform Compatibility: - PLAS ore designed to
-	Work Seamlessly more engaging
	uses experience, which set higher expetition for Android
	uses experience, which set higher expetition for Android opp developers.
9.	Progresive Enhancement: Developers needed to adopt
4	promocein prhanament ala taria to angues +1 +
3	progresive enhancement strategies to ensure that Android apps remained competivie by offering progressive and a desponce user experience, similar to pures.
	In not & essive and & designate of the properties similar
	to Suppose is a fine is the suppose
1 Hay	the bigs which are the bigs which are
16-5	com to the material and delates to be
0.2	What is the puspose of an Inflator of layout in
	Android development and how does it fit into the
	architecture of Android layouts?
>	In Android development, on "Intlates reses to the
	layout Inflates, which plays a csucial role in
	escating a uses interfore (vi) from XM2 loyoutfiles



- In Any Android, UI components use often defined using XML loyout files.
- 2. Loyout Intlution:

 When your Android opp suns.

 It need to tven these XML loyout files into actual view objects that can be displayed on the screen.
- 3. loyout Inflates:

 It is sesponsible for seading the xML loyout files and Instabliating the corres ponding view objects in memory.
- 1. Dynamic UI escation:

 Loyout instation. PS particularly

 valuable when you need to escate UI elements dynamically,

 for example, in response to user interaction.
- 5. Binding Datain Once the view objects are created, they can be further customized and data can be bound to them.



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0.3	A Exctom Diclay Box in A lail
	A Enstorn Dialog Box in Android is a popul window
	and customize to display
	reformation, options, as actions to the uses. It's a
	Vessatile UI demont for Showing wests input forms,
	Continction dialogs on ony other Customs interaction
	that doesn't dit the standard layout of an Activity
	Ex: When you need to provide to twilored user
	experience or yather dpeasic input som the uses
	without novigating to a new Screen like obesting
	wasnings asking for input at nuntime like gesdes
18.3.	Nome etc into for noting etc.
	the state of the s
02	At the C to I M O I at a second
-0.4	Activities Services and the Android Manifest file
	are Endamental Components of an Android upp.
	each with it's own specific Note in the overall.
-	application architecture.
	.2 0 1:11
•	1) Activities
33.55	01,01,11
	Role: Activities sepsesent individual screens. 08
	uses interfaces in an Android App.
	0 1 0 1 5
	Expla Example: Imagine a simple email app with two activities; one for Composing ensecils 2
	activities: one for Composing ensecits &
2777,000	another has vicwing the labor
W. O. W	and it was a second and a second a second and a second an
	2. Services ;
	Role's Kessiees use backysound Components that pessonson long-sunning opesations without a uses Interface. Page No. 2. V.R. Telecom & Xerox
	long-sunning operations without a user Interface
	Page No. 2.

3. Android Munifest Sile;

Role: The Android Manifest. XML file is a consignisation file that definess essential information about the app. its Components, and required permissions.

Example: In the manifest file, you specify which activities. & services the app contains, their properties. & any permission required, among other things.

Q.5 The Android monifest its significance. file is a critical. Component in Android app development it serves serveral significant purposes that impact the development and functionality of an Android application.

* Examples :1. Component Declaration:-

The Android manifest file is where you delare all the Components of your android opplication, including activities, services, broadoast secires and Contect providers.

-> A copplication ... >

Cactivity android; name = ". main Activity">
<intent - Silter>

Category android: name = "endroid: intent. action. MAIN"/.

(lintent-filter)

(lactivity)

(Service android: nome = ". My Service"/>

(Receiver undroid: anthorisies = "Com. exple. my orp. provider"/>

: nome = ". My Receiver"/>



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	< Provides
	andsoid: name = ". My content Provider" andsoid: authorisies = "com. example, myapp Provider"/>
	and soid: authorisies = "con example, myapp Provider"/>
	C/opplication>
	Taking the layout fire was
2	Application Consignantion's
	Lapplication
0	andsoid: icon="@ dsawable / opp-icon"
	android: label = " @ String / opp-nome"
	andsoid: theme = " Ostyle / opp-theme"
	ondsoid: version cade : "1"
	andsoid: Yessian Name = "1.0">
	The state of the s
0.6	Resources one the additional files static Content
/	that your code uses such as bitmous lowerest desinitions
	that your code uses, such as bitmops loyout desinitions user interfoce string enimation instruction & mose
1	Resources types overview.
	1.> Animotion resources:
1	Define pre-determined unimations
7-2 West	Same animations are saved in ses/dsawable I and
	accessed from the Ridrowable class
	27 Color State list sesource's
A COLLEGE	Define a color gesource
- note!	that changes bassed on the vicus state. Soved in
	8es/color/ and accessed form the R. color class Page No. 3. V.R. Telecom & Xerox
	Page No. 3. V.R. Telecom & Xerox



- 3. Drowble resources:

 Define various graphics with bitmap or XIML.
- 4. layout sesousces:

 Desine the layout sor your application UI.
- 5. Menu resources:

 Desine the contats of your opplication Menus.
- 6. Style resources:

 Desine the look and format for

 UI element.
- 7. Sont sesousces :

 Desine the families so inculude custom

 Sont in XML.
- 1.) Background processing:

 Services allow apps to personn

 tasks in the background without blocking the user
 interface.
 - 2.) long running operation:

 Services use ideal for healing operations that sequire more time to complete Such as playing music.



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•	OANT AT UNIVERSITY, KHERVA-304012, DIST - MEHSANA. (N.G.)
3.>	Inter Component Communication +
19 A 19 19 19 19 19 19 19 19 19 19 19 19 19	1001/1001 000/4/2
E 3 3 5 1 9	Components like activities brodust seceivers and
	Components like activities brodust receivers and other services to communicat with each other efficiently.
4.>	Fosegsound Service:- Android services con Run in the foreground. even when the oppoisn't in the foreground.
1	Android services con Rus
100000	in the foreground. even when the oppoisn't
•	in the foreground.
-	Personal Delining
6	Process of Developing on undsoid service:
19.0	12 Defines the Sessice class :-
	Create a new Jova
11/11/	1.) Defines the Sessice class:- Create a new Jova Or kotlin class that extend the 'service' class.
	2.) Configure Service in manifest:
	2.) Consigure Service in manifest: Declare your service in the Android munifest. XMI file to inform the
2	condroid system about its exsit and configuration. < service and soid : name = ". My service" 17
-	Service and sold name = ". My service" />
-	3.) Stort or Bind the Servicce -
	Declara 121 of 100 and
	Want to start your service as bind it to other components.
	other Components.
7.34.37	

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A) Implement service logic !
In service closs, implement
the specific logic your service need to perform its
task-

Release resource when they

re longer needed and consider using 's topself!)'

or 'stopservice'.

6.) Interect with other components:
vse appropriate

mechanisume like intents brodust or call back

lo Savilitate Communication.

1) forground Services Ceptional;

If your Service need to run in the Soreground 'sturt fore ground'.

