

U.V. Patel College of Engineering

MEHSANA DISTRICT EDUCATION FOUNDATION SANCHALIT

A. Datel College of Engineering Ganpat university, kherva - 384 012 dist. mehsana. (N.G.)

MAD Assignment - 10 delle control de choose
needs to be added to the last well and the added these
I). Based on your understanding identify a perent bushing
trend that has influenced the Android platform Explain how
this trend impacts Android app developers and business in
the mobile app industry
decent humans hend which has believed the Android are
many is the increasing emphase on mixeu and date
privary resulating leading to the reid for more to but privacy
policies and Count me charisms with their ages. Burness on
polities and Count me changes with their appl. Buines on the other hard must principle were policy in their andress
age to build and mant ain trust little Cindenato Forthe
to do so Con result in fines and legal Callenges as full as a loss of wer frust and loyalty Additionally
full as a loss at user frust and loyalty. Additionally,
Survey rela to adapt Their monetigation strategies as
Done traditional admitting method that rely heavily a
use data may becomes les effective.
e) labot is the account of a state of the
2) What is the purpose of an inflator of layout in Android development, and how does it fit into the
anchitiches of Added loss to
orchitechne of Android layoute? The surpose of an inflator in Android development is
to take an XML layout file and Convert it into Corresponding
view objects that can be manipulated and displayed an
the done. In other words it is used to dynamically
Create the user interface elements defined in xx1 10 1
Create the user interface elements defined in XXII layous files at huntime. The architecture of Andried layouts. The inflater plays
To the architecture of Android layouts, the inflater Nous
order to work the view regers where which is
a part of the overall larond Mathen process
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When an Activity or fragment is Created on when a new view needs to be added to the DI, the inflator need to be added to parse the XML layout file and Convent it into a hierarchy of view objects 3) Explain the Concept of a Custom Dialog Box in Android applications.

Provide examples to illustrate its use:

3) A custom Dialog Box in Android is a populp window that developers Car design and Customize to display information, options or actions to the user. It's a verbatile UI element for showing alerts. input forms, Confirmation dialogs, or any other Customs interacting the that doesn't fit the standard layout of an Activity. Ex! when you need to the provide a tailord user experience or gather drecific input from the user without parigating to a new screen like alenting warnings, when for input at runtine like gerder, Name etc mo, for rating etc. 4). How do activities durices, and the Android Manifest files work together to make an Android app. Can you describe their man roles and provide a basic example of how they Cooperate to design a mobile app?

Activities oberinces, and the Android Manifest file are turdamental Components of an Android app, each with its own opperation role in the overall application architecture. - Activities represent the user interface and done as the endy points for user interactions. E uch screen in your app is typically implemented as an Activity. - Derevice are background components that restorn long-running tasks or execute operations that don't require a user Mentace. They run, independents of the activities and are and for task like Maying music fetching date from the internet or running periodic background processes.



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	The manifest file is a Configuration file that provides
	exertial information about your app to the Android
	System It declares the app's Emponente (Activities, densices,
io d'o	Bradeast Receivers), runiscions and other dettings (ident filkers).
	assissed brooks I misely die did a whoul
5)	How does the Andrid Marifest file impact the
youll.	development of an Android application. Provide an example
PARL	to demonstrate the significance.
2	The Android Manifest file plays a prostal role in Android
	app development as it deeves as a blueprint for the Android
and	operating dysten to understand and interact with its you
1 Mario	app It imports development in deveral dignificant ways.
ent.	like delaring components, definy, permissione I stert filkes
	App Metadata App Entry Politic
for mon of	like declaring components, defining, permissione I Hert filkes App Metadata App Entry Point. Eg: < manifest xmlas and soid = "https://ochena and wid com/apk
gar were in	home without he soll a for senting a don't and it
iu s	package = "Contenante opp"> = "
	application and have mile took with the said to
aire.	and mandraid eiten = @ mpmaplic lamber ? " "
6	android: label = Ostring / app-name >
horse	where such a country to so of the solly the thing has
1080	android: name: "Main Activity"
	android: name: Main Activity
	ardroid: label = " @ stry lapp-name >
solvado ho	cintent-filler
hartes	Cache and mid name?" and roid intext action MATNY
and to so	ecategory android: name = "android intent. Category.
	ing a motion to the work which should bucker I have
and a	Alan dis Standard - filter sings now has after a fair the
W. W	ale activity with the de little grides
	Cuses personission advoid: nam = "ardroid permission Internt"> Page No.
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/manifest 7th of the manifest of the desired to the land of the la

Above example of manifest file describes the main Activity as launcher activity with regimes internet purission.

6) What is the rate of resources in Android development? Discuss the various types of resources and their significance in creeking cult-shruchured applications. Provide examples to clarify four points.

3) Recourses are essertial components that provide external assets

and date to your app. They play a Crucial Trole in deparating Content from Code, enhancing maintainability, and adapting your opp to different device Configurations.

i) xme layouss: There define the Structure and appearance of your app.
ii) Drawable: It stool images, icons and graphics used in your app.
iii) String: It stones text and catings used in your apple us.

iv) Glon: It define that Glors used Knowshout the app.

v) Dinerblus: It store numeric values, such as margins, padding.

vi) Layout? It allows you to create resources folders for different configuration, duch as down size, orientation, and layunges.

7). How does an Android Service Contribute to the functionality of a mobile application describe the process of developing an Android dervice.

If An ardroid service is a component that news in the background,

independently of the over Menface, and performs long-running aperations
or background tooks. Services plays a crucial hole in enhancing

the furtherality and user experience of a mabile application by enabling tasks that schould Continue Livining even when the app is not. In the foreground in this has see



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	Android dervice Contributes to the functionality of a mobile
	application:
	- Background Processing
	- long. Roming greatiers
	-Inter-Component Communicate
	- Ponground and backgrand Service
	€
	Developing an Android deroice involves the following offer:
	1) Greate a during clan: It is the class as which extends
•	the dervice class or its dubclasses. This class will Contain
	the Code for the tasky you want the dervice of perform.
	ii) Define durice in Manifest: It let the Android dysten know
	about it.
	iii) Stort and find to the dervice:
	To start a dernier, you can use start dernice (I Net)
	by deart Foreground dervice (34 Intent) if it's bye ground dervice
	- To bind to a service for more Combex interractions)
	line bindrewing / Inter dervice Connection, int)
	iv) dervice has a life cycle that makindy methode like oncreate(), anstart Command () and on Deskry () implement
Õ	Oncreate(), onstart Command () and on Deskry (). implement
	there are thed by a control to the don't cold later
	during its hipcycle.
	during its hipcycle. r) In the estant Command Co method, perform the background processing or long. Twoning tasks that the duraice is designed for
	processing or long- running tasks that the dervice is
	derigned for
	vi) Use App Deswite (galent) or Hopbelf within the service
	vi) use stop service (Intent) or stop selfer within the service to stop it when the tasks are lampleted or when
	de no longer reeded.
	vii) Ensure that you release any acquired resources
	av unding in component with the courter a diffical
	or destroyed to avoid menory leaks.
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