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| ERR)     | MAD Assignment-1   |
|          |  |
|          | Based on your understanding identify a recent business trend that has influenced the android plateform coplain how this brends impacts Android App developers and business in Hobite app industries.   |
| <b>→</b> | The second bound which is emphasis of privally and dataprotection. Developeris now need to be stricted towards data privally engulations, clouding to the need for more robust privary policies and consent mechanisms with their appears    |
|          | Businesses on elle other hand must princitize user privacy in their Application to built and maintain tourst unith customons failing to do this can result in loss of trust and legal challenges.  |
| 2        | what is the purpose of an implator of layout in Android development and how does it fit into the ordistrations of android layouts.   |
| ->       | The purpose of an inflator is to take an XML file and compart it into corresponding view objects that can be maripulated and displayed can the screen. In other words it is used to create the user interface elements delined can XML file. |
| 1        | defined can XM file.   |

- or axchitecture of Android layouts the inflator plays of coucial orde within the view inflation plays, which is a poort of overall process. When an activity is created on when a new view is to be added to the parse the XML layout file and convert it into a hierarchy of view objects
- 93. Explain the concept of a custom Dialog Box in android applications. Provide examples to illustrate its use.
- Developers can design and customize to display information options or actions to the users. It is a usualite UI element for showing calends, input forms, Compormation dialogs, or any other customes informations that doesn't in fit the Standard layout of an Activity.
  - Ex: when you need to provide a good user experience or gather specific inputs from the user without navigating to a new screen like alerting assurings, as truly for input of suritime like gender, name, etc.



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| 94 | How do activities, somices and the Android Manifest files work doubler to make an android App. an you describe their main soles and provide a horic scangle of how they corporate to design a mobile app?   |
|----|---|
| -) | Activities, sources and the android manifest files are fundament components of an android app each with its own sop specific sole:  |
|    | entry point for user intoractions. Each sexen in your app is typically implemented as an Adiusty.   |
|    | Services are background components that perform long subning lask as executes operations that don't require a user indertace. They sum endependently of the activities and are used for lasks like playing music, totaling data from the internet or sunning background processes |
|    | The manifest dile is a configuration dile that provides essential enformation about your upp to the Android System IF declare the apps components, permissions and other softings.  |
|    |   |
|    | Page No. V.R. Telecom & Xerox   |

Page No.

- 95 How closes the Android Manifest ofiles compact the development of an Android Application? Provide an example to demonstrate du Significance.
- -> the Android Manifest files plays an important sole ein android app development as it Serves as a blueps it for the android operating system to understand and unlered with your app. It impacts development in several Significant ways like decloving components, defining, pour issions, Intert filters App metadata, App entry point Example: < manufest XMI. andsoid = "https://schema.andsoid.com/cgpk/ses/andre package = "com example app">

< application and soid . icon = "@mipmaplic\_aundra" and soid label = "@stry

<activity and soid name: ". Main Activity" And soid label = "@String/App-name"> < intend-filter>

< activity and soid: name = "and soid. inlend. action - main"/>

< Category and soid: name = "and soid. inlend. Category. LAUNCHER" />

Luser-permission android name = "android permission Intomet"/>

4 manifest >



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|                  |   |
| 96               | what is the side of sessources in condraid development? Discuss the marious types of sessources and their Significance in Greating well Structured applications. Provide Example to clarify your points.                            |
|                  | por vita.   |
| -)               | Resources are essential component that provide external asets and data to your app. They play a crucial viole in separating content from cocle, enhancing maintainability and adapting your app to different densice configurations |
|                  | 1) MML (ayouts: These define the Structure and appearance of your app   |
|                  | 2) Doawable: It Stores, images, icore and gemphics wed in app<br>3) String: It Stores text and Strings used in your app's UT<br>4) Dimensions: It Stores numeric values such as maggin, padding                                     |
|                  | S) Glor: IF defines reloss used throughout the app<br>6) Rayord: IF allows your to create sesonals foldows for different<br>Guigar ations, Such as Green Size, Origination<br>and languages   |
| 97.              | How does an android Services contribute its the functionalities of a mobile application. describe the process of developing an android Service.   |
|                  | An android Service is a process which owns in background interface and penjosin long-sunning operation or background losses services play a crucial sole in Page No. 3  |

enhancing the functionadities and user-exposioner of a mobile application by enabling basks allow Should continue ourning even when app is closed.

android Sources contribula to the functionality of a mobile application

· Background processing

- · long- Ronning Operations
- \* Inter-component Communicate
- · forground and Background Services.
- Developing Android Services ienvolves the following Steps:

  Di Greate a Source Class: It is the class which extends the Service class or its subclasses. This class will contain the code for the dasks you want the Source to perform.
  - 2) Define Sources ein Manifest: It det the Android System Know about it.
  - 3) Start and find to source:
    - stood a Sourice, you can use Sourice (Tirlend or stood foreground Sourices (Tirlent) if it's foreground Sourice To chind do a Sourice use hind Service
  - 4) Sourice has a life cycle that uncludes method like OnGeatel)
    to manage the Service's behaviour during its

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| min | TOTAL TOTAL (N.G.)   |
|-----|--|
|     | 5) In the Stevel Command () method, perform the background processing or long running tasks that the Somuice is                            |
|     | de stop service (Tulout) or stop self () within the Sourice longer needed  |
|     | T) Ensure that eyou release any aquired sesources or anhind from components when the Somices is Stopped as destayed to avoid manage leader |
|     |  |
|     |  |
| 1   |  |
| 1   |  |
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