

U.V. Patel College of Engineering

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| | Claus CEIT-R batch: 5B-5 |
| | Envolment No 2/0/2011/25 |
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| | - Assignment to the less were |
| | The following through the state of the other one |
| () | Bused on your understanding identify a recent humans trend that has infollence of the understanding plitation. |
| Leve 1 1 man | trend that has inflhenced the understanding plitetom. |
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| , E2 | and business in the mobile app industry in hand |
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| | A occent business trend that how Significant |
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| to de de | progressue Coeb CIPPS (PWA)" and the Emphusis on |
| | Myland HTP development. |
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| . <u>}.</u> | Impution android approductives: and |
| | trained brown . A. |
| iai je s | 1) Cross pletform Development! |
| ************************************** | Android Cype developmen are intreasily aid opting: hybrid |
| | app development framework like fatter Rewet Notine |
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| ون درد فرا | (H. improved wax Experience: |
| 'C | here pruhed Android copp developes to Bioritize. |
| 4 | a better user axelvenel. |
| - 14. | a la interior distriction of the property of the person of |
| Len al | 3) Rodwed meintanence: |
| White State | meintring Seperate Code buses for Anchoid |
| | ios, and creek apps can be resource intensive |
| | Page No. V.R. Telecom & Xerox |

- Impact on Business in the mobile app industry

ARTHUR FIRE OF THE CONTROL OF SOME STAND

Developing for android is often a priority edition have to its larger wer buse. By using cross-pleteform development tools and technique.

Android upp huster son son sold busines launch There

B'user Engagement:
The enhanced user cooperance from PWAs on Improved.
Anchopids app cent lend to higher user engagement.

(2) when is the purpose of an inflator of layout in Android development and Now does it fit into the excliteetime of

Android leagont?

The purpose of an in flutor in Android delepopulate

is to take an XML layout file convert it has its

corresponding view object in memory.

Corresponding view object in memory.

(1) KML layout files: In all androld development you Grave layout files that define the structure and appearance of your app's user interface.

Activity of brugnest: In your kotlin code, typical within con extivity or brugnest you need to specify which instructed for the user inserface.



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| | Inflation: The inflator is wed to take the same byour |
| | file and inflate it which meuns it passes the |
| | Ame and create a hierardy of view object the |
| | Wemon they come naveling a cost of the |
| | memory ther corresponding to the clever in the |
| | the state of the s |
| (8) | Explain: the concept of a customorphing Box in Android |
| | application: Provide exemple to illustrate its we |
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| | A Custom diego Box in Android application is wer |
| | interfue elenent thest allow developer to create a |
| | Custom, clifen model dialog that appears on top |
| | Content activity Content is in all a |
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| Ť. | Custom Dialog Set Contentico (R. Coyout autom Dialog) |
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| 1 4 | < tent Niew> (R. id. message Ten+ Mrw) |
| Fig. 2 . | Val exputton = Crysom Dialog. find view By Id < Rutton> |
| | CR. id. expution) |
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message. Text View. Test = "This is a custom dialog! ak Britton. Set Onlick listener 200 The state of the state of dispussion in the state of the Custom pialoj. Chow () mas - 11 from

per transfer of in the the second of the little

(4) How do cutivities, services and the android manifest tile work together to make and android appl com you describe their main rules and provide a busics example of how many Cooperate to delign umobile application

Role: Activity represent individud Screen or WI Component in an Android App.

(c) Services dans med metals motorcino un) Role: Service are buenground Conforment that perform long running operation or handle task that don't don no sequire suct interferent : rooms of in loboil is

(3) Android memifest file: 330 post Role: The Android munifest xml is like the apps Some Sint best of Dobis of water (1)

chapters from a property of respond to Class manifest: APP Compact Activity () overside for oncrete Cserver instance state Bund le ! Jal Super. On Create (sixed Instance State) Set Consent View CR. legout activity meine Sturt service Button, set onclick listen & Vent Service inter = Intent (this, notification Service: Stust. Service (Service Intero) Class. Jacks)



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| (m) | Enterpology Croudwith of Examerous Any along alt 21 miles (2) |
| (tel: 15 (S) | How does the Android memifest like input the development |
| 1. 90.1 | of an android application? provide on occurrele to |
| | d'emonstrate its significances. |
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| - Buseni | Conson The android menifest file is a cowid |
| 1,4, | component in the development of an andoroid capplication |
| 1 | It serve s. Several important purpose and its Context |
| | Significally. |
| | the property of the instance of the server |
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| | exple lines/ android " ment sent and and |
| | Parkage = "Com-exemple.myapp"> |
| 122 | 2 application |
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pulling to an animal contraction (6) What is the sole of sesources in Android development Downs the various types of oceances and their Significent in Grewing well structured applications provide exemples to Clarity your Resources Play a fundamental role in Android development by providing a Stouctured way to manage assets values, layours app. - Types of resources and their countle?

1. Layout Resources:

- type: XML files in the 'res/ Layout 'directory.

- Significance: Define the Structure and appearance at the upps uses interface. bioch 10 10 1919 - Ecomple: 5 9900 (100 019 2000) = 1204109 < Button android: id = @ + rd /my Buttonin: 1:0000 embroid : layout - width = "wrap - Content" 1) and noid theyout - height = wrep- Content · Cendroid text ? "Click here" /> 2. Drawable Resonnes: Sust historia 1914 the - type: Images and downste assests in the residenceble " richer . directory wis processed to should mait is - significance: store graphice, icon, and images used in Exemple: IC lœunchen png' is the upp's Launcher icon. 3' String Resource - type: String defined in xmi tiles under restudies. - Signifilance: Store text Strings, making it eisier to provide trunslations and mentain Consistency - Exemple: < string name = "app-nume"> App </string>

I string nume = " welcome_message" > tol lone < /string>



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| , to way 6 s | - Significances Store Cotor Values, arriving Consistency in the |
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| 20,100 | - significance: Défine reusable style for un Components: |
| ing offer. | - Exemple: res/values/style. xmc. detines. Style. |
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| | G. Dimension Resourcess : 20 mension Resources : Store dimension Values; ensuring a Consistant Layout. - Exemple: |
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| | G. Dimension Resourcess Hype Dimensions defined in xinn files under respective. Cignificence: Store dimension Values; Ensuring at Consistant Layort. Lay |
| | Exemple: How does an android Service Constitute to the functionelit of a mobile application & Describe the process of developing an application of Services. |
| | Dimension Resolvaters - type : Princerious defined in xim files under respectives. - significance: Store dimension Values; ensuring a Consistent Layout. - Exemple: Layout. - Exemple: Main does an android Service Contribute to the functionelit of a mobile application? Describe the process of developing an undroid services. 1. Background Processing: Services allow apps to perform tasks |
| | G. Dimension Resolutions defined in Simi files under respectives. Significance: Store dimension whiles; ensuring a Consistant Layort - Exemple: How does an android Service contribute to the functionedit of a mobile application? Describe the process of developing an android Services. 1. Background Processing: Services allow apps to portare tasks in the background without blocking the user Twee faces. |
| | G. Dimension Resolvoters Auge Dimensions defined in xam files under 'restratures'. Cignificance: Store dimension Values; ensuring a Consistent Layort - Excemple: Laimen name = "Margin-large" > 2000-6/dimensi How does an android Service Consolbrite to the functionalit of a mobile application? Describe the process of developing an amdroid Services. 1. Background Processing. Services allow apps to portarm tracks in the background without blocking the user Turer faces. 2. long running operations: Services are ideal for headling operations |
| | G. Dimension Resolutions defined in Simi files under respectives. Significance: Store dimension whiles; ensuring a Consistant Layort - Exemple: How does an android Service contribute to the functionedit of a mobile application? Describe the process of developing an android Services. 1. Background Processing: Services allow apps to portare tasks in the background without blocking the user Twee faces. |

3. Inter Component Communication: Services enuble Components like activities, broadcast receivers and other Services to Communicate with each other efficiently.

4. foreground Services! Android Services can non in the foreground, even when the app isn't in the foreground. This is useful for features that origine ongoing were interactions."

Process of Pereloging an android Services:

Bully and action of the secure

O Define Service Class: crente a new Jewa of Kotlin class that entends the service class. override method like, orderenter, on Start Communder, on destroyes to define behinions of solvice.

(2) Contigure Service in marifest: Declare your service in the android memifest. And hile to inform the condition System about its existence and Configuration.

(3) Start of Bind the service. Decide whether you want to start

Os. Bind your service

(h) Implement Service logic: In service class, implement the specific logic your service needs to perform its task.

Hendle Liteyele: Release resonances when they are no longer needed and Consider wing stopservices?

(B) Interest with other Components: uses appropriate mechanisms like intents, broadlests. Or colleases to Recilitate Communication.

(Poregrand Service Reed to never in the

Acregoound, Start Roseground (?

M Testing: Throughly test your service to ensure it functions as expected, including handling versions scenerious like network failures.