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Assignment - OS

ritle: Android Studio Installation

Roblem Statement: Download, Justan and configure Android Studio on linux/ Windows platform.

Objective:

Object

* Outcome:

Students shall be able to:

1. Install Android Studio

2. Develop au apprication as per sequissement.

* Software and Hardware Requirements:

Federa Linx / Windows 10 64 bit, Android Studio Bracle Jong JOK 8.

Theory:

ANDROID STUDIO: It is the official integrated development environment (IDE) for google's anamid operating system, built on Jetsman's Intelli] IDEA designed specifically for android development. It is available for download on no mindones, macos le Linux based operating

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Use:

It has a strong editors tool for developing creative UI and unulators for differently versions to test and simulate sensors withbut having actual android surices. It also has a very can create application fine with different configurations. unleavel it makes exploring and uploading apk on playstore easy with a single click. It also has ANT build if you prefer that

o Differences between androod studio and Eclipse.

→ It supposts gradle:

→ In the layout view you have the option to view both the actual layout and the simil at the same time, while in Eclipse you must choose between the two tabs.

Installation Steps: (Windows 10)

Step! To sloven wad the sudsord Studio, H'si't official android Studio website in your web browser.

Step 2: Click on Download Android Itudio " option

Step 8: Donble dick on the alonon roaded
"Android studio-ide exe" file

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- Step 4: "Android Studio setup" wir appear on the screen and ruck "Next" to proceed.
- Step 5: Beliet the components you want to install and well on "Next" button
- Step 6: Now browse the cocation where you want to instan the and old studio and click 'Next" to proceed
- Step 7: choose a start menu folder for the "Android Studio" shortcut and click the "Install" button to proceed
- Step 8: After successful compution of installation
- step 9: Click on "Firish' button to proceed
- Step 10: "Android Studio Setup Wizard" will appeal with necessary wizard curch on 'klent' button
- Step11: Belect the 'Standard option if you are a beginner. It nein instan the most common settings and options for you. Click on 'Next' to proceed.

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Step 12: Now, select the user enterface theme as you want, then chick on "Nexu" button.

Etep 13: Now, and on "Finish" button to download all the SDK components. And the downloading & installation of components get started:

Step 14: After donenwading all the necessary components, dich on 'Firrich' button

4 Conclusion:

Ptuduits haint to slownhoad, wistall and configure dudroid studio on their operating system.

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Android Architecture

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Android OS is a stack of software components which is soughly distind into fine sections and jour main layers as shown in the diagram.

? luina kernel.

- This provides a level of abstraction between the device hardware and its contains an essential hardware drivers like commena, keypad, display, etc.

ii) L'brances:

on top of linex kelvel there is a set of libraries wicheding lopen-source web browser engine webkit, well known library wbc, etc

iii) Android Runtime:

Dalvik Vistual Machine which is a kind of JVM specially designed and optimized for android.

in Application from ework:

form of Java classes

- Provides managers such as Activity Manages . Window Manages , Notification Manages , etc.

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+ Androld Versions:

The development of Android OS was started by Android in 2003 and later on it was purchased by Google in 2005. The beta retsion was released on Nov 5, 2007 while the software development kit (SDK) was released on Nov 12, 2007

o versions:

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-	Gingest read	2.3 - 2.3.7	0 1-10
	Activity National		bless -
-	Honey comb	3-0 - 3-2-6	11-13
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	Icecream	4.0 - 4.0. H	14-15
	somdwich		
	Jelly Bean	41-4.3-1	16-18

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Kitkat	4.4 - 4. 4.4	19-20
Lollipop	5.0-5.1.1	21-22
Marshmellow	6.0-6.0-1	23
 Nongat	7.0	24
-		
Nongat	7-1-0- 7-12	25
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Que	8.0	26
Oreo	8.1	27
Pre	9.0	28
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 Android 10(Q)	0.01	29
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Android II (R)	11	30

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