



ANDROID

UNIVERSITAS KOMPUTER INDONESIA

BAB II.

MEMULAI PROYEK ANDROID PERTAMA

Dosen Pembina :

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Bella Hardiyana, S. Kom, M. Kom



JDK

Download JDK terbaru dari link dibawah ini

<http://www.oracle.com/technetwork/java/javase/downloads/index.html> (tanggal akses : 7 Maret 2013)

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Oracle Technology Network > Java > Java SE > Downloads

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Java SE Downloads

Latest Release Next Release (Early Access) Embedded Use Previous Releases

DOWNLOAD Java Platform (JDK 7u17)

DOWNLOAD JavaFX 2.2.7

Here are the Java SE downloads in detail:

Java Platform, Standard Edition		
Java SE 7u17 This release includes important security	JDK DOWNLOAD	JRE DOWNLOAD

Java SDKs and Tools

- Java SE
- Java EE and Glassfish
- Java ME
- JavaFX
- Java Card
- NetBeans IDE

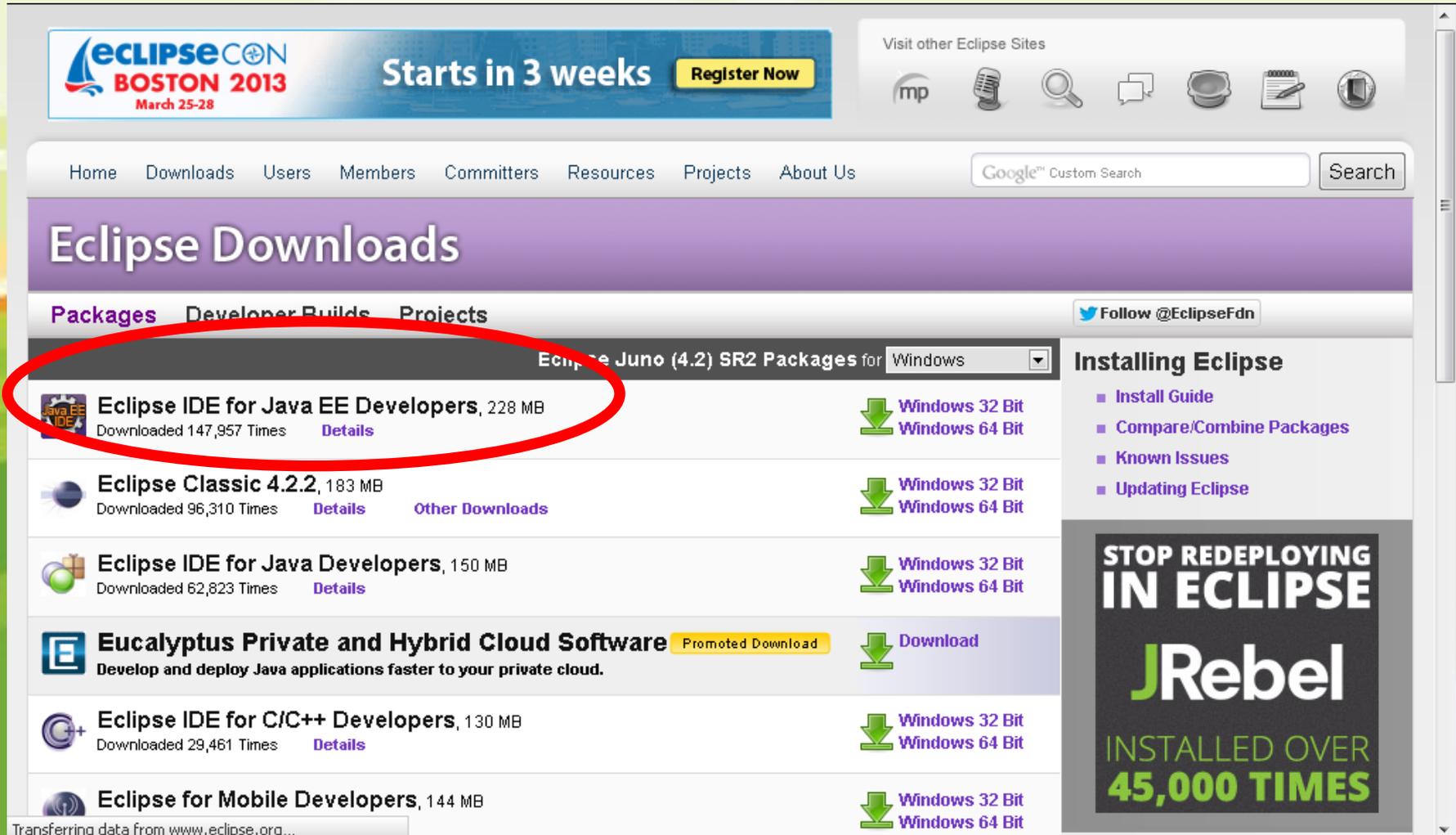
Java Resources

- New to Java?
- APIs
- Code Samples & Apps
- Developer Training
- Documentation
- Java.com
- Java.net
- Student Developers
- Tutorials

Eclipse

Download Eclipse terbaru dari link dibawah ini

<http://www.eclipse.org/downloads/> (tanggal akses : 7 Maret 2013)



The screenshot shows the Eclipse Downloads page. At the top, there is a banner for EclipseCon Boston 2013, starting in 3 weeks, with a 'Register Now' button. Below the banner is a navigation menu with links for Home, Downloads, Users, Members, Committers, Resources, Projects, and About Us. A Google Custom Search box is also present. The main heading is 'Eclipse Downloads', with sub-sections for Packages, Developer Builds, and Projects. A dropdown menu is set to 'Eclipse Juno (4.2) SR2 Packages for Windows'. The first package, 'Eclipse IDE for Java EE Developers, 228 MB', is circled in red. It has been downloaded 147,957 times and offers Windows 32 Bit and Windows 64 Bit versions. Other packages listed include Eclipse Classic 4.2.2, Eclipse IDE for Java Developers, Eucalyptus Private and Hybrid Cloud Software (a promoted download), Eclipse IDE for C/C++ Developers, and Eclipse for Mobile Developers. On the right side, there is a 'Follow @EclipseFdn' button and a section titled 'Installing Eclipse' with links for Install Guide, Compare/Combine Packages, Known Issues, and Updating Eclipse. At the bottom right, there is a large advertisement for JRebel, stating 'STOP REDEPLOYING IN ECLIPSE' and 'INSTALLED OVER 45,000 TIMES'.

eclipseCON BOSTON 2013 March 25-28
Starts in 3 weeks [Register Now](#)

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 Eclipse IDE for Java EE Developers , 228 MB Downloaded 147,957 Times Details	 Windows 32 Bit Windows 64 Bit
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 Eclipse IDE for Java Developers , 150 MB Downloaded 62,823 Times Details	 Windows 32 Bit Windows 64 Bit
 Eucalyptus Private and Hybrid Cloud Software Promoted Download Develop and deploy Java applications faster to your private cloud.	 Download
 Eclipse IDE for C/C++ Developers , 130 MB Downloaded 29,461 Times Details	 Windows 32 Bit Windows 64 Bit
 Eclipse for Mobile Developers , 144 MB	 Windows 32 Bit Windows 64 Bit

Installing Eclipse

- [Install Guide](#)
- [Compare/Combine Packages](#)
- [Known Issues](#)
- [Updating Eclipse](#)

STOP REDEPLOYING IN ECLIPSE

JRebel

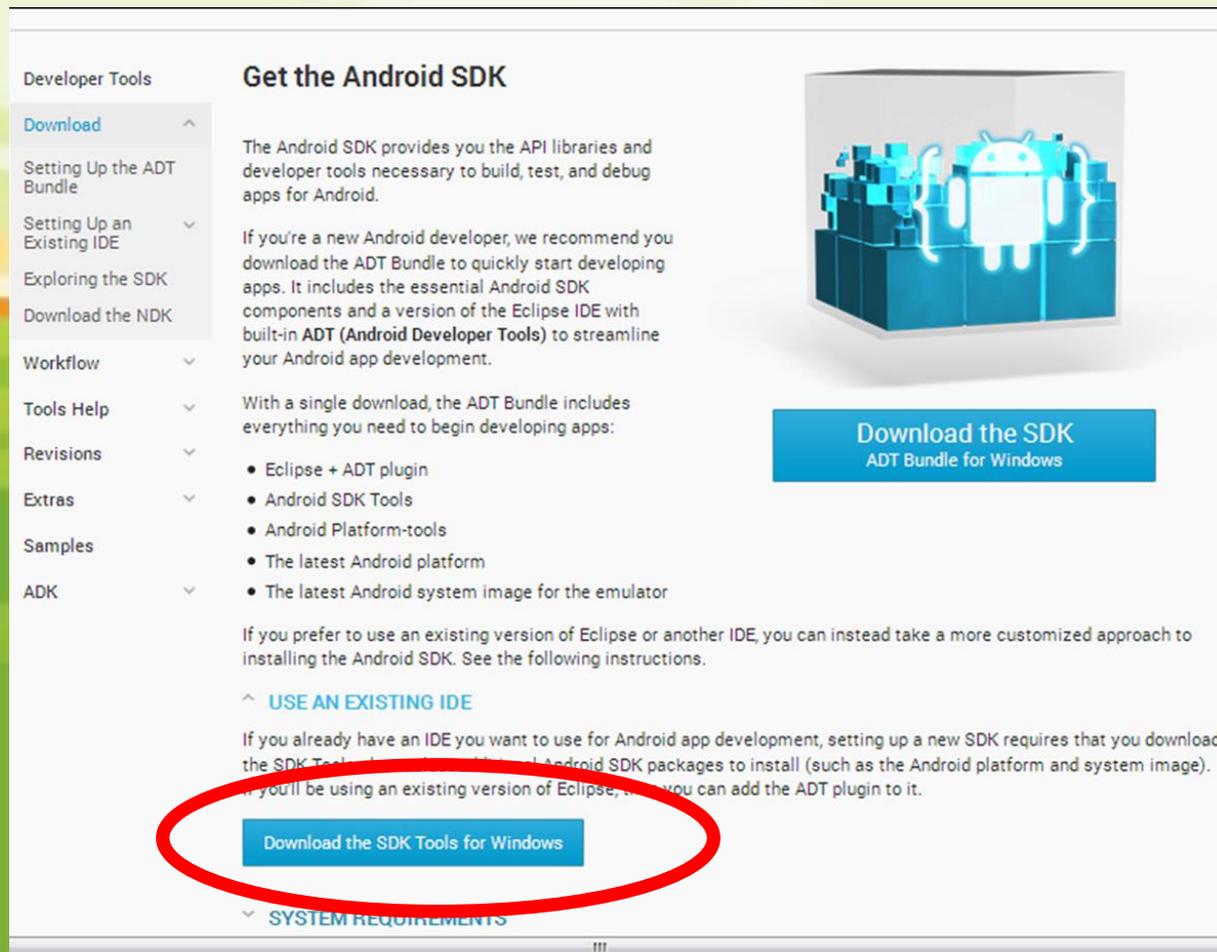
INSTALLED OVER **45,000 TIMES**

Transferring data from www.eclipse.org...

Android SDK (1)

Download Android SDK terbaru dari link dibawah ini

<http://developer.android.com/sdk/index.html> (tanggal akses : 7 Maret 2013)



The screenshot shows the 'Get the Android SDK' page from the Android developer website. On the left is a navigation menu with categories like 'Developer Tools', 'Workflow', and 'Tools Help'. The 'Download' link under 'Developer Tools' is expanded. The main content area has the heading 'Get the Android SDK' and a sub-heading 'Download the SDK ADT Bundle for Windows' next to an image of the Android robot. Below this, there is a list of components included in the bundle: Eclipse + ADT plugin, Android SDK Tools, Android Platform-tools, The latest Android platform, and The latest Android system image for the emulator. A red circle highlights the 'Download the SDK Tools for Windows' button. At the bottom, there is a section for 'SYSTEM REQUIREMENTS'.

Developer Tools

- Download
- Setting Up the ADT Bundle
- Setting Up an Existing IDE
- Exploring the SDK
- Download the NDK

Workflow

Tools Help

Revisions

Extras

Samples

ADK

Get the Android SDK

The Android SDK provides you the API libraries and developer tools necessary to build, test, and debug apps for Android.

If you're a new Android developer, we recommend you download the ADT Bundle to quickly start developing apps. It includes the essential Android SDK components and a version of the Eclipse IDE with built-in **ADT (Android Developer Tools)** to streamline your Android app development.

With a single download, the ADT Bundle includes everything you need to begin developing apps:

- Eclipse + ADT plugin
- Android SDK Tools
- Android Platform-tools
- The latest Android platform
- The latest Android system image for the emulator

If you prefer to use an existing version of Eclipse or another IDE, you can instead take a more customized approach to installing the Android SDK. See the following instructions.

USE AN EXISTING IDE

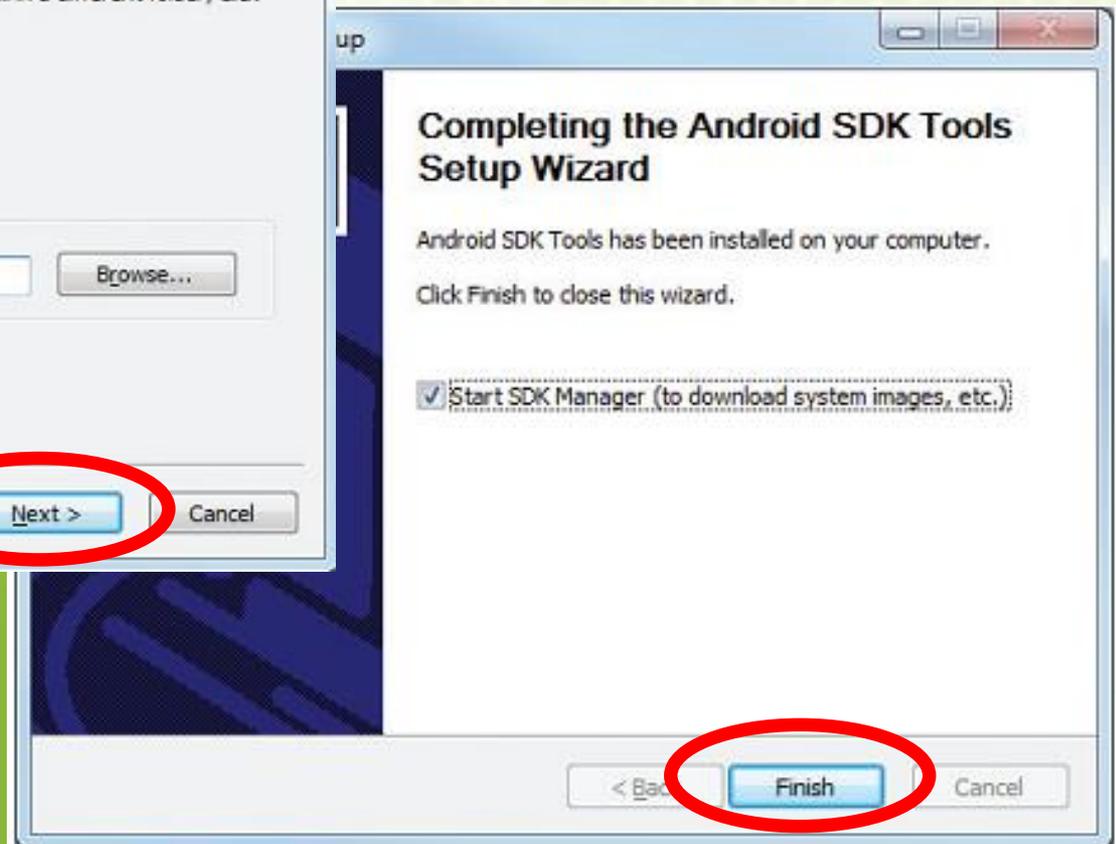
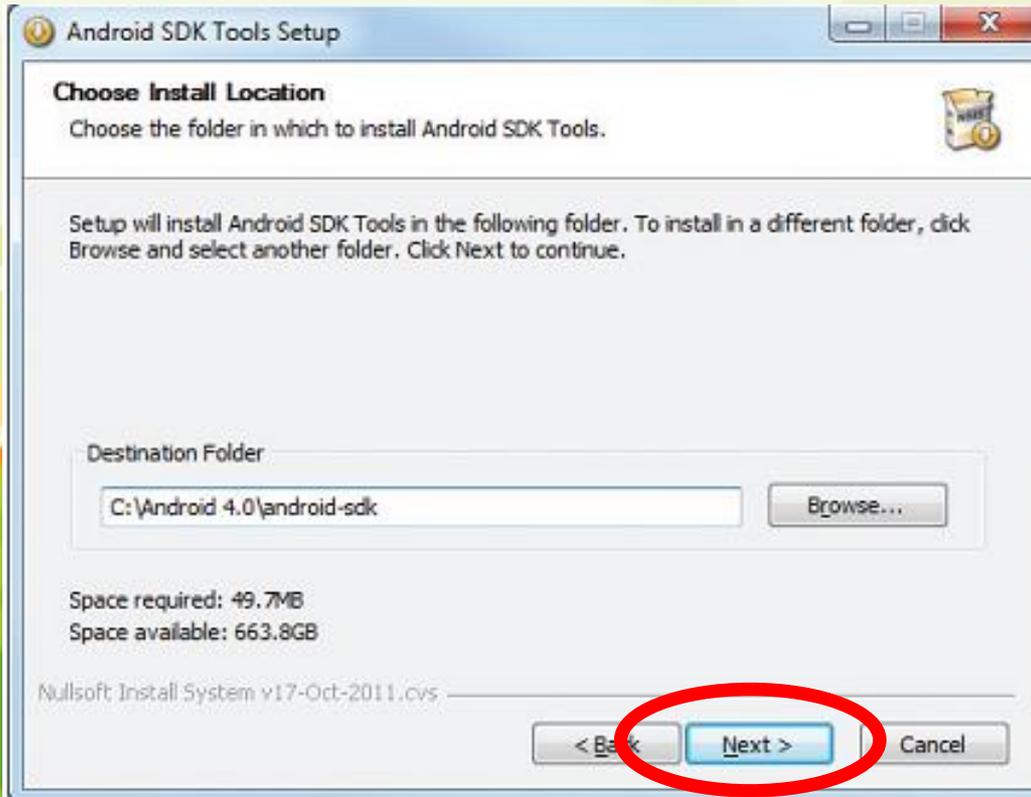
If you already have an IDE you want to use for Android app development, setting up a new SDK requires that you download the SDK Tools and the additional Android SDK packages to install (such as the Android platform and system image). If you'll be using an existing version of Eclipse, you can add the ADT plugin to it.

[Download the SDK Tools for Windows](#)

SYSTEM REQUIREMENTS

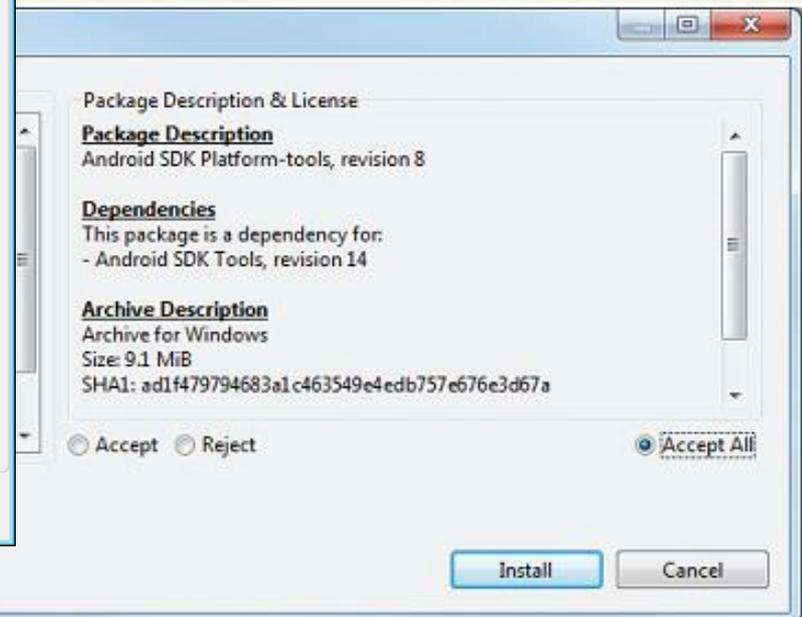
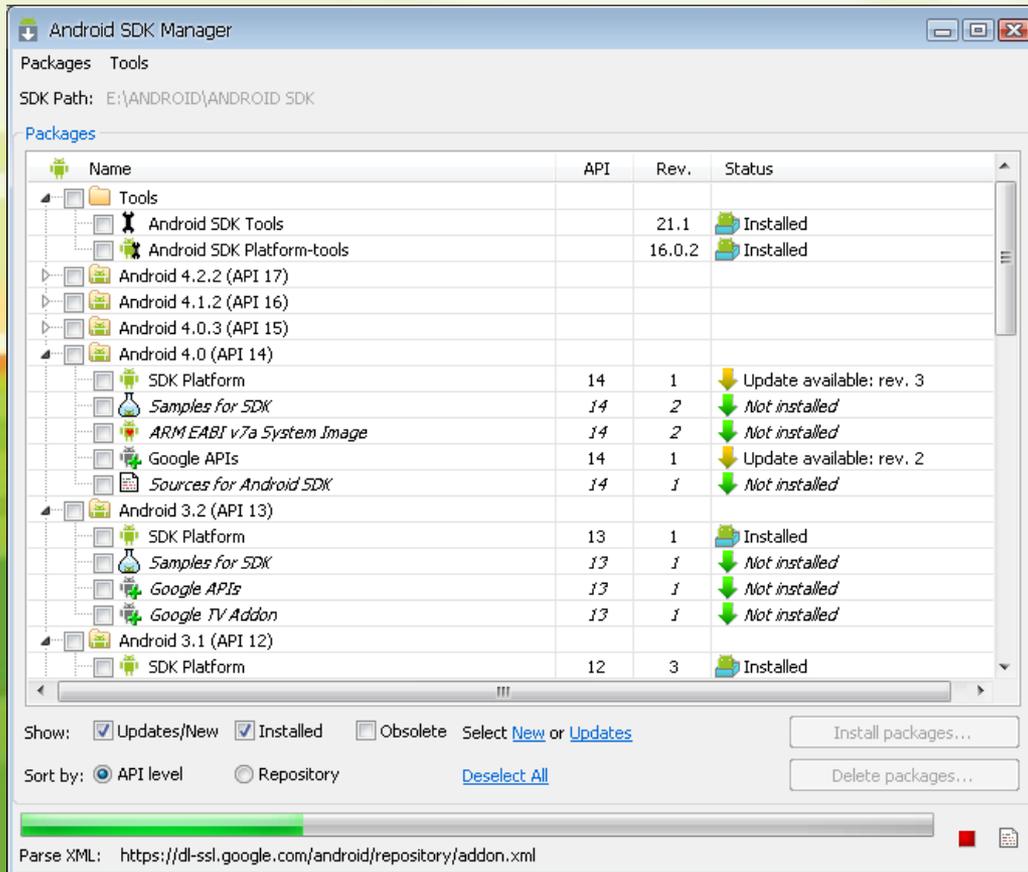
Android SDK (2)

Pilih Next > dan Finish



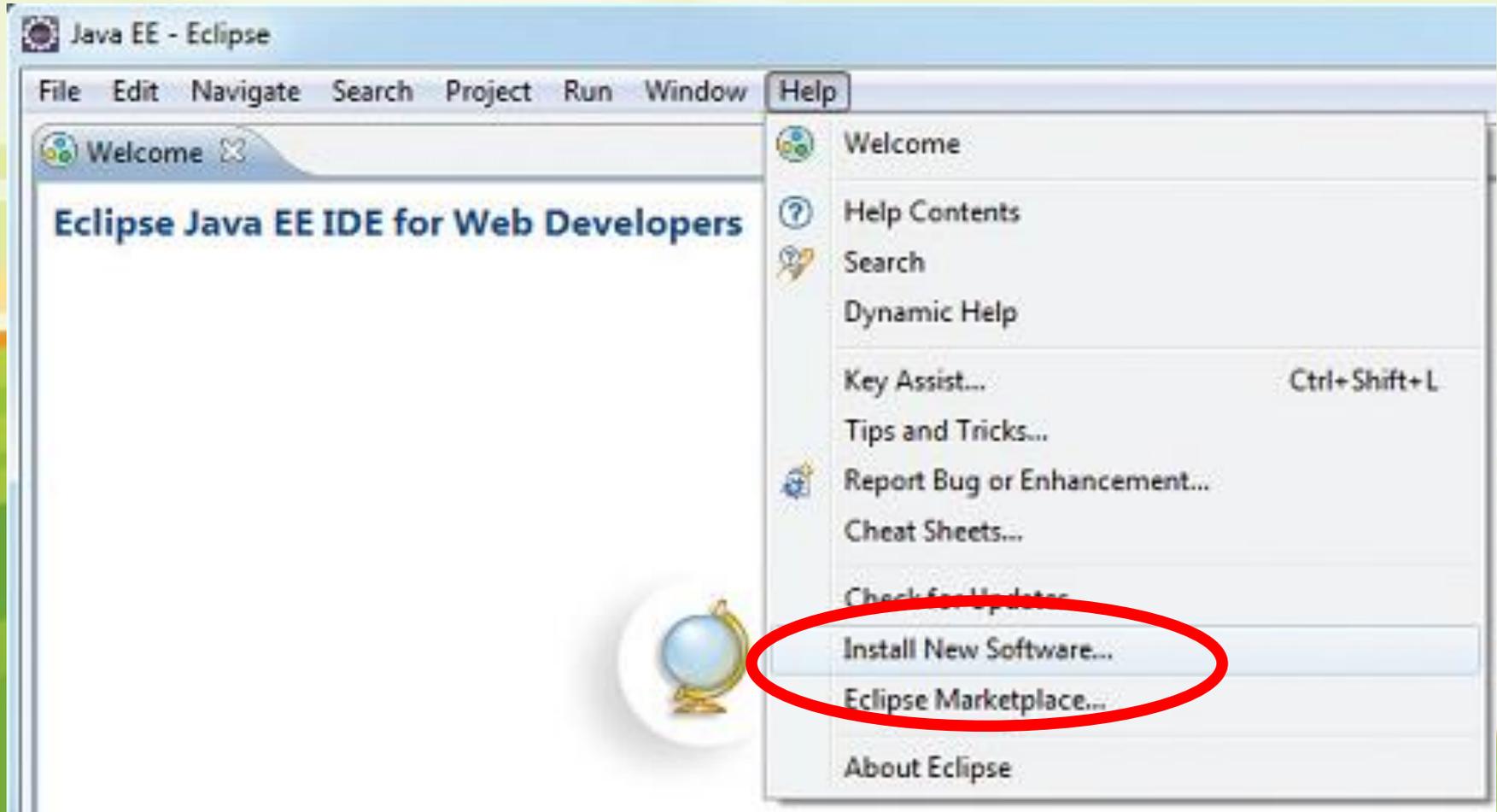
Android SDK (3)

Setelah itu, buka SDK Manager dan download Android Platform yang anda butuhkan



Download ADT Eclipse Plugin (1)

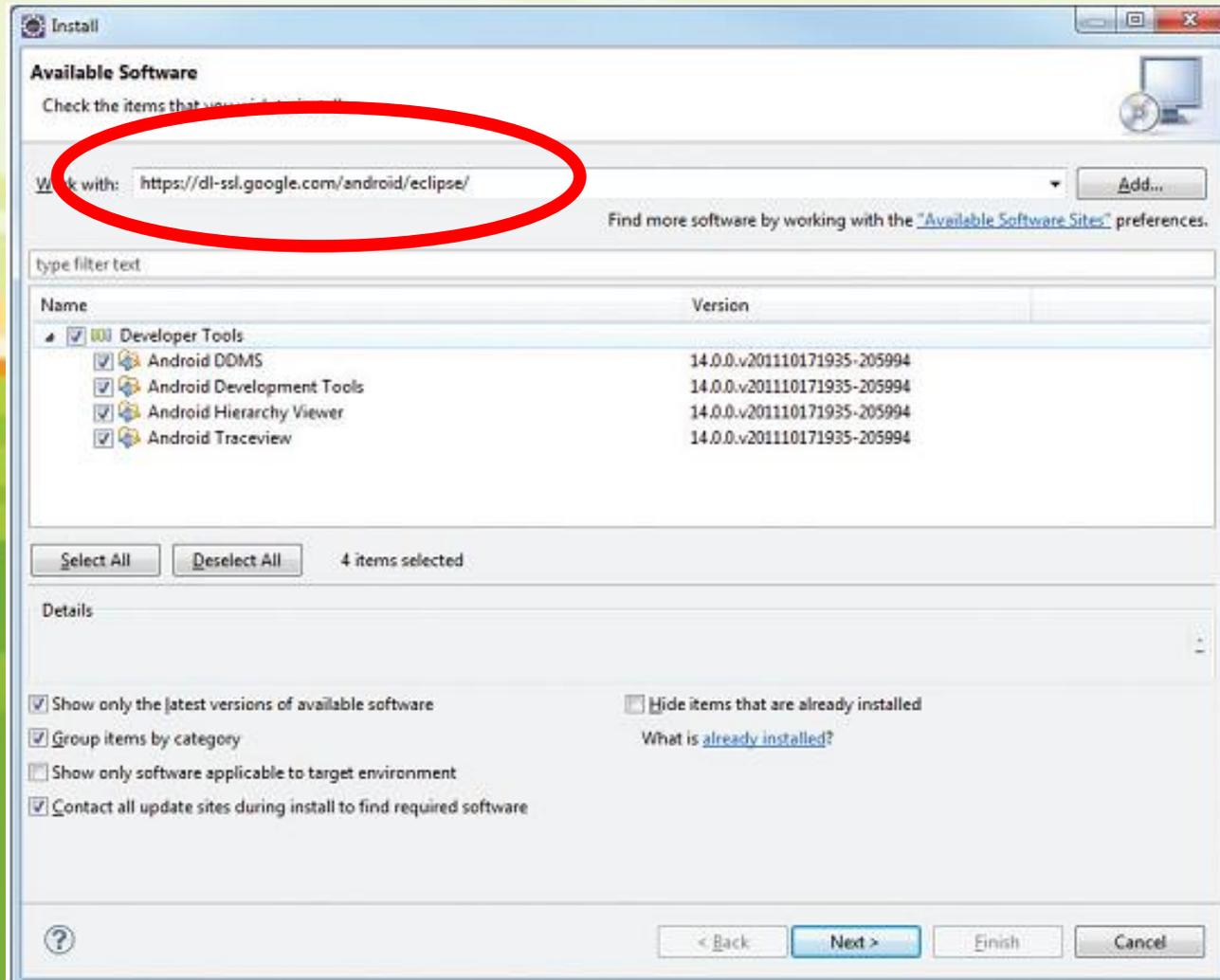
Buka Eclipse anda. Setelah itu masuk menu, Help ⇨ Install New Software.



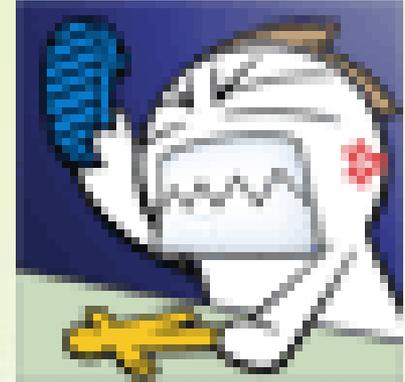
Download ADT Eclipse Plugin (2)

Input pada kotak URL yang tersedia dengan :

<https://dl-ssl.google.com/android/eclipse/>



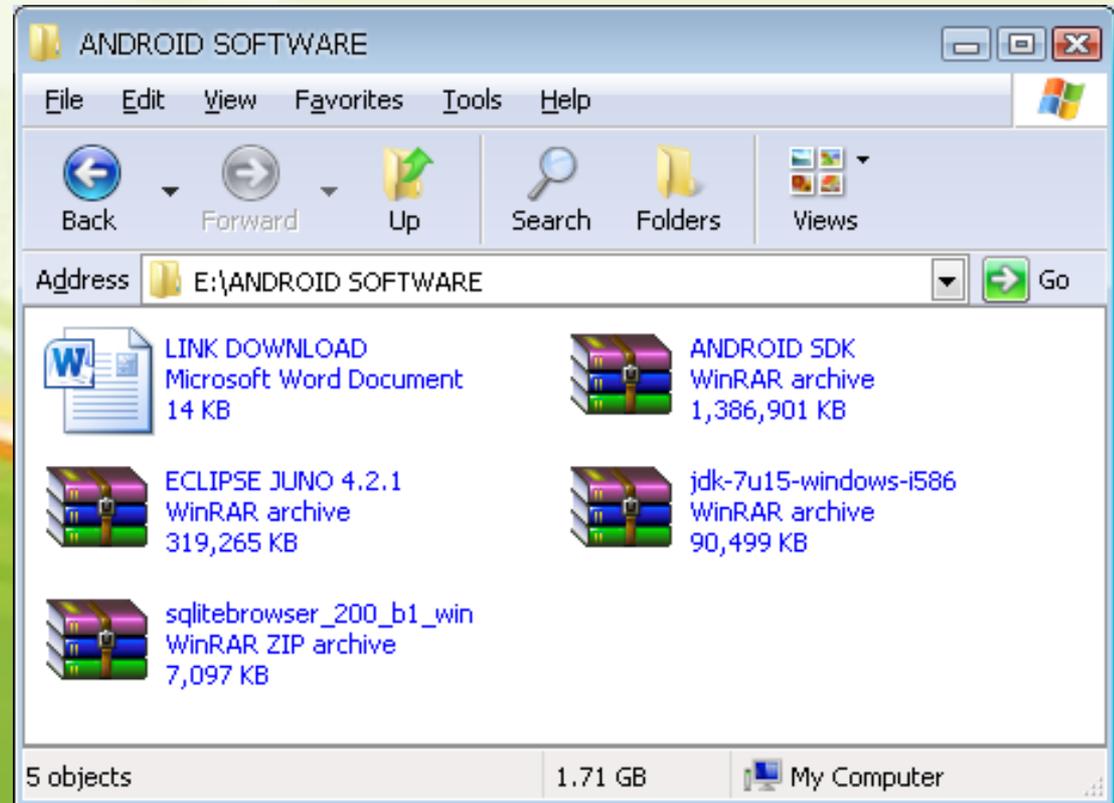
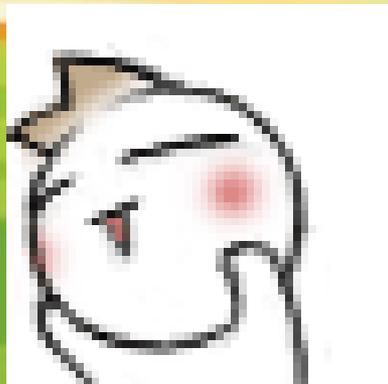
Anda Pusing ?



Gak Ngerti !!!!

Jangan Khawatir

Kami sudah menyediakan Software lengkap untuk mata kuliah ini.



Silahkan anda ikuti Video Tutorial Berikut Ini

Catatan Penting

Software-software yang wajib anda miliki dengan memiliki Versi paling minimum untuk develop proyek Android adalah sebagai berikut :

- JDK 1.6 update 15
- Eclipse 3.7
- ADT 21
- SQLite Browser 1



Sedangkan untuk Rekomendasi, tentu saja gunakan software paling terbaru.

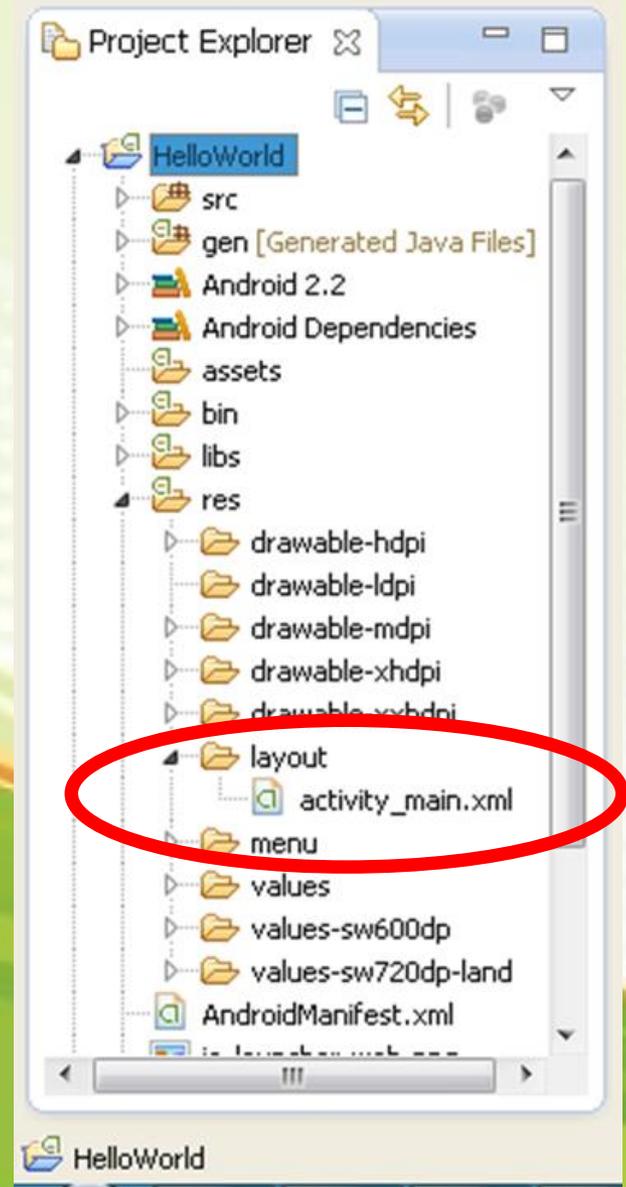
MVC Android

MVC



Layout xml

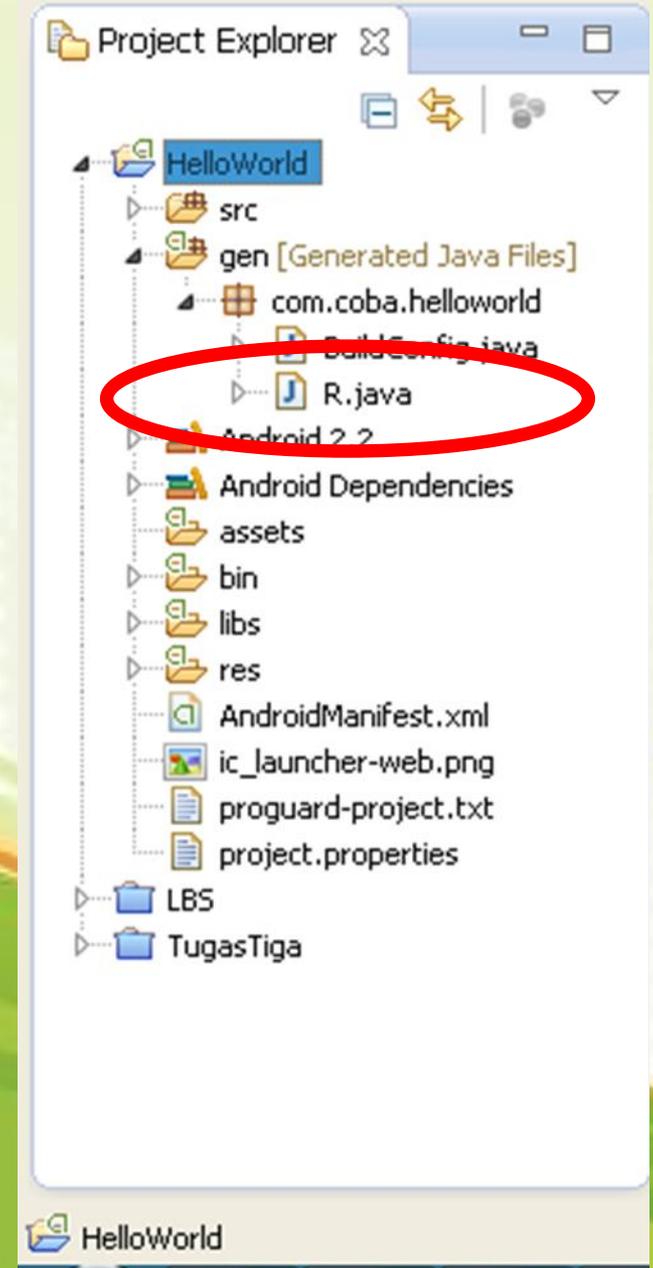
File-file xml digunakan untuk membuat tampilan (*user interface*) pada aplikasi android anda. file-file xml tersebut disimpan dalam folder **res/layout/** pada proyek Eclipse.



R.java

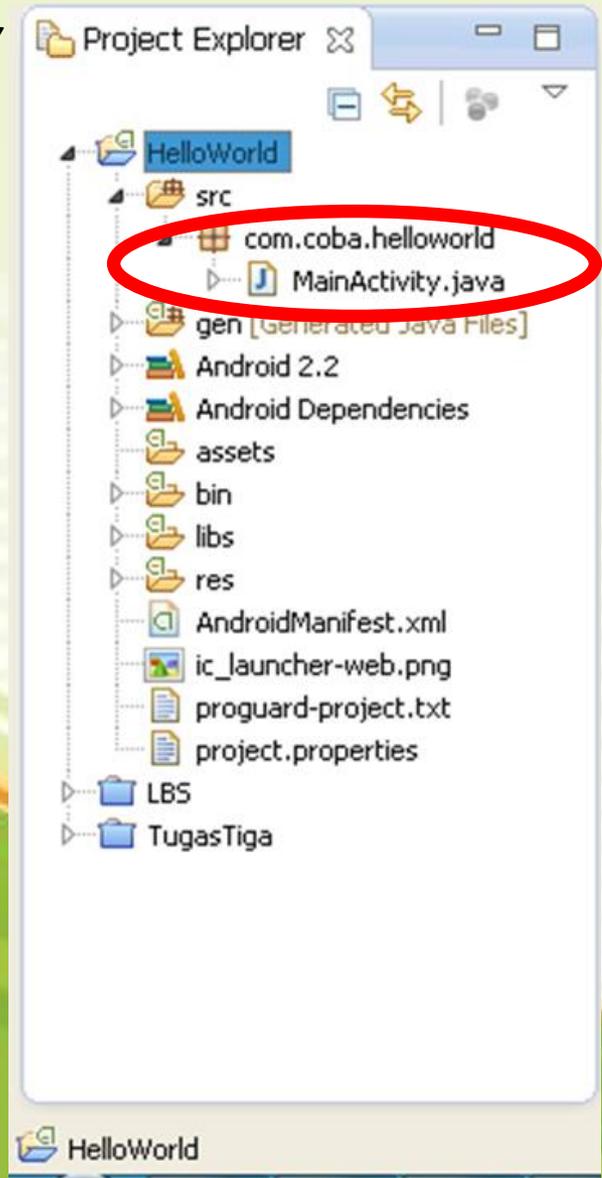
R.java berfungsi sebagai penghubung antara View (xml) dengan Controller (java). Terletak pada folder `gen/nama_package/` pada proyek Eclipse.

Catatan : R.java tidak boleh di ubah, karena bersifat *auto generated*.



Java

Java berfungsi sebagai *Controller/* pengendali aplikasi android yang kita buat. Tidak hanya berfungsi sebagai pengatur alur kerja database, tetapi semua aktivitas yang ada di aplikasi yang kita buat. Semua file java disimpan di dalam folder src, anda boleh menyimpannya didalam **nama_package** seperti contoh disamping.

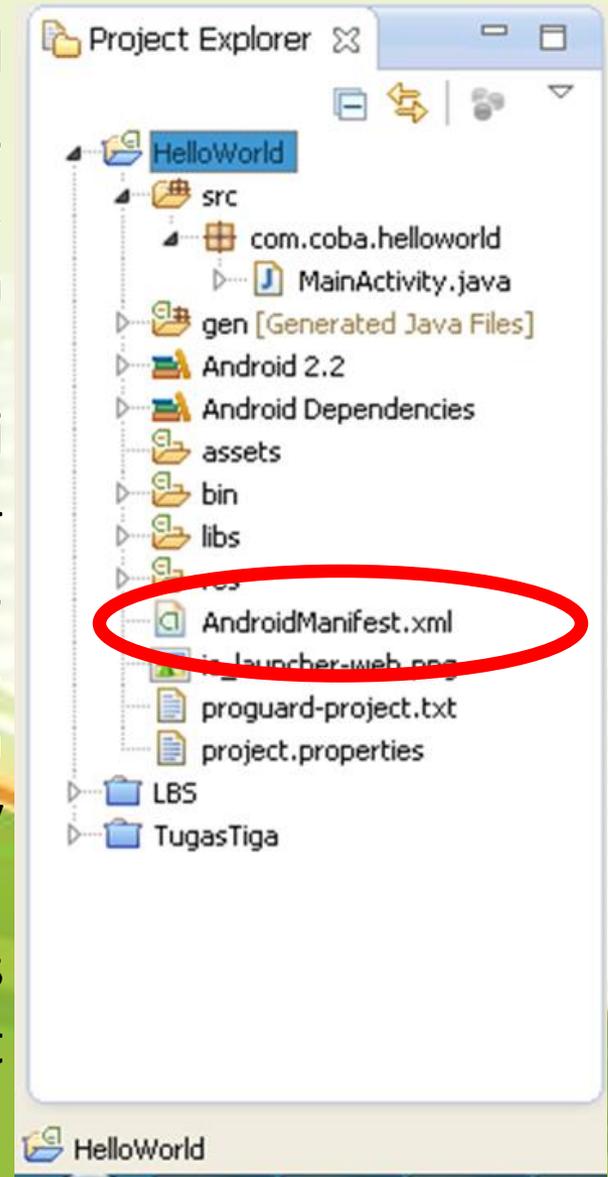


AndroidManifest.xml

Android Manifest merupakan sebuah xml yang berisi informasi mengenai aplikasi, seperti versi dari aplikasi, nama package, level SDK yang digunakan, beserta icon dan nama yang diberikan untuk Aplikasi.

Selain itu, AndroidManifest.xml ini digunakan sebagai pengatur activity-activity yang terdapat pada aplikasi, berupa daftar kelas-kelas java, penggunaan intent untuk pemilihan, dan pemberian Label / title pada suatu Activity saat mereka Aktif.

AndroidManifest.xml ini secara otomatis ada jika kita membuat sebuah project aplikasi Android

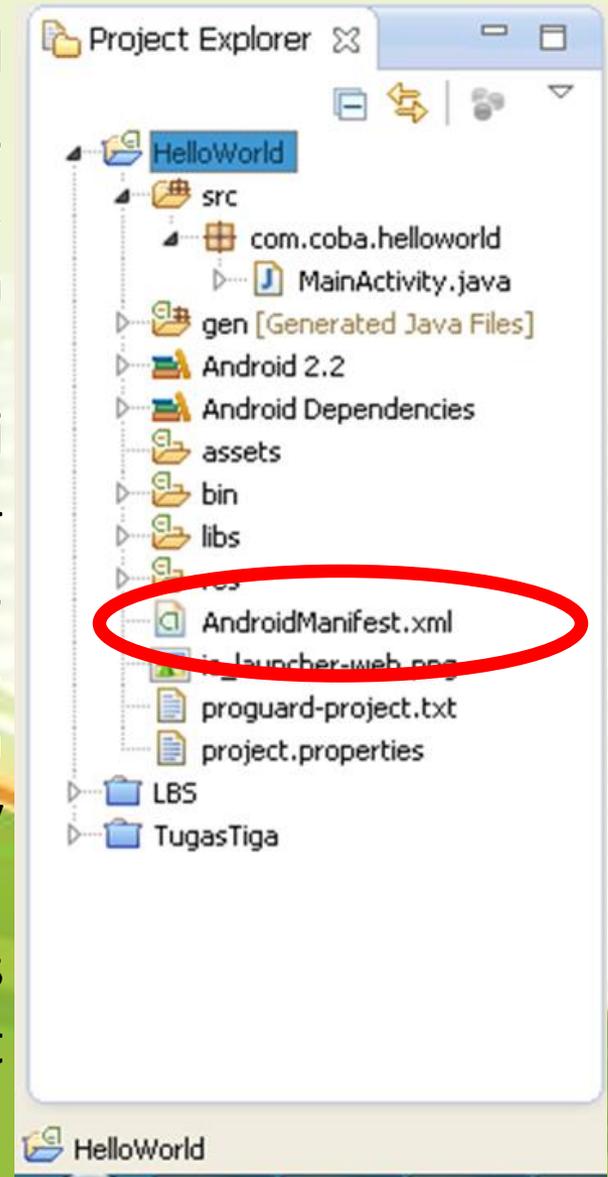


AndroidManifest.xml

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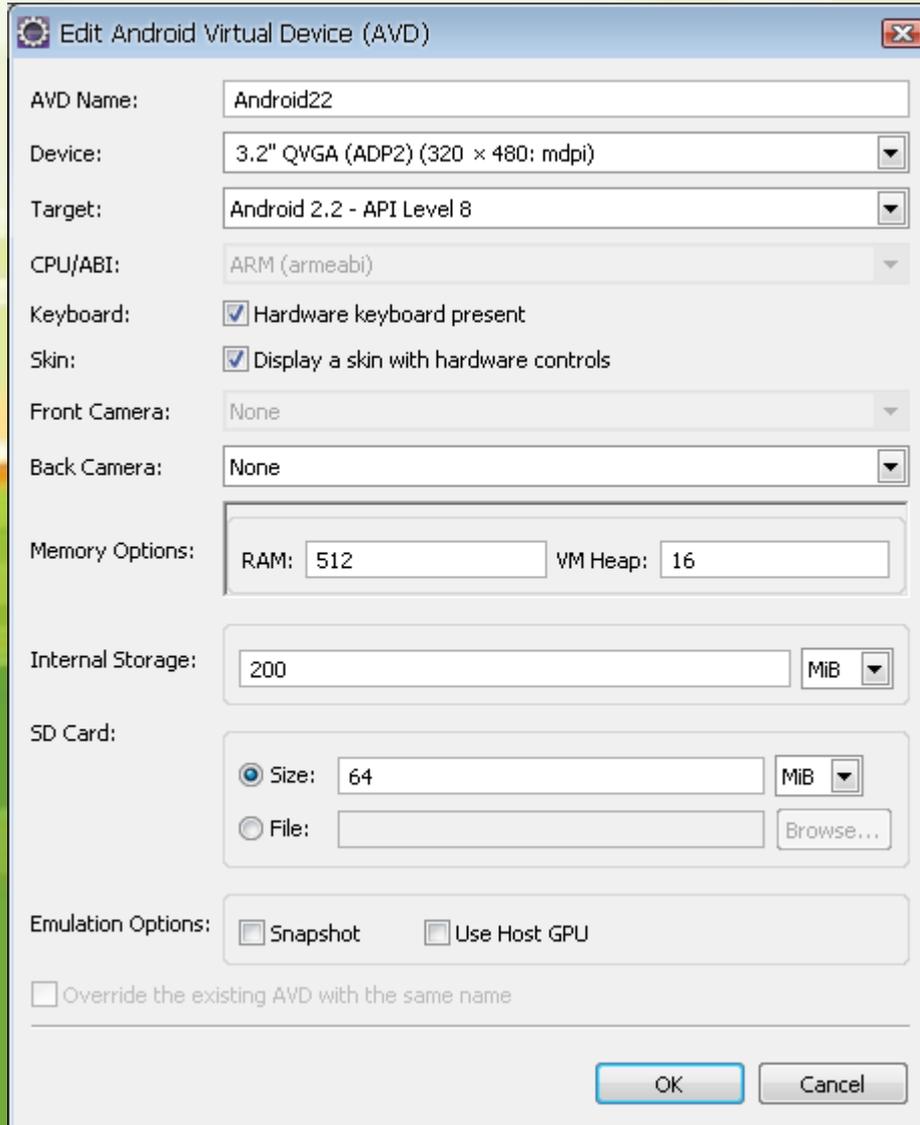
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AndroidManifest.xml ini secara otomatis ada jika kita membuat sebuah project aplikasi Android



Membuat AVD

Buatlah AVD dengan Spesifikasi sebagai berikut :



Edit Android Virtual Device (AVD)

AVD Name:

Device:

Target:

CPU/ABI:

Keyboard: Hardware keyboard present

Skin: Display a skin with hardware controls

Front Camera:

Back Camera:

Memory Options: RAM: VM Heap:

Internal Storage:

SD Card:

Size:

File:

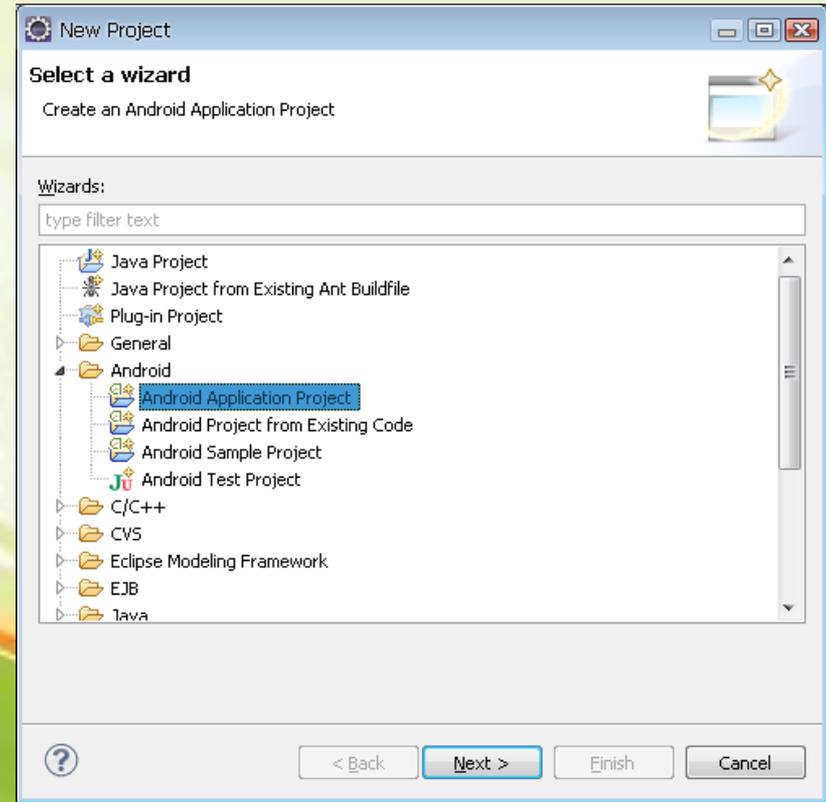
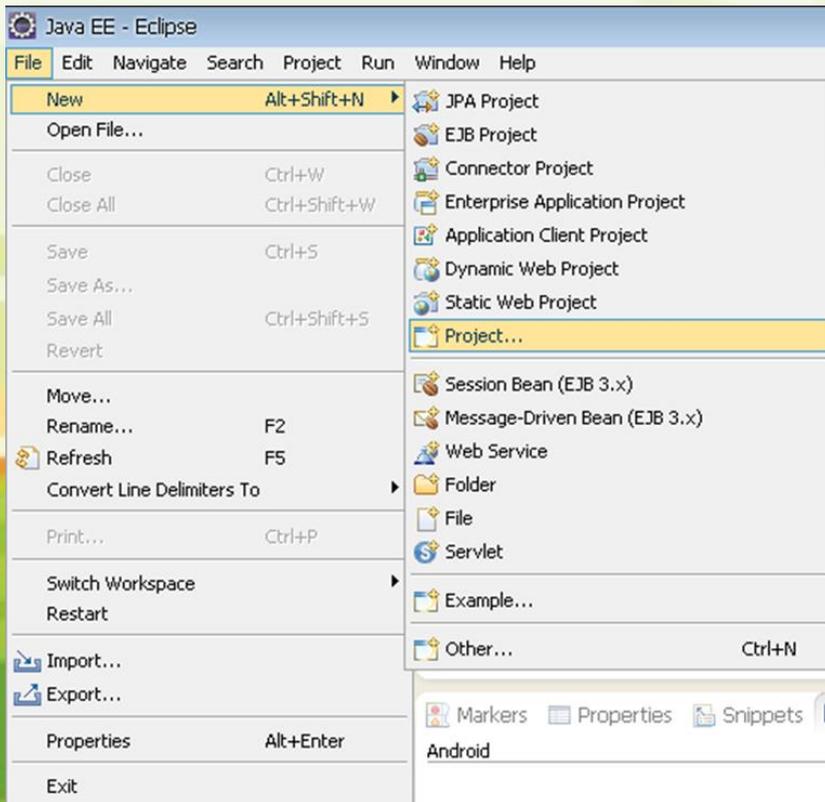
Emulation Options: Snapshot Use Host GPU

Override the existing AVD with the same name



Membuat Proyek (1)

Buat proyek baru : File ⇨ New ⇨ Project



Android ⇨ Android Application Project

Membuat Proyek (2)

New Android Application : Create a new Android Application

New Android Application

New Android Application
Creates a new Android Application

Application Name: Halo Halo Bandung

Project Name: HaloHaloBandung

Package Name: com.latihan.halo

Minimum Required SDK: API 8: Android 2.2 (Froyo)

Target SDK: API 8: Android 2.2 (Froyo)

Compile With: API 8: Android 2.2 (Froyo)

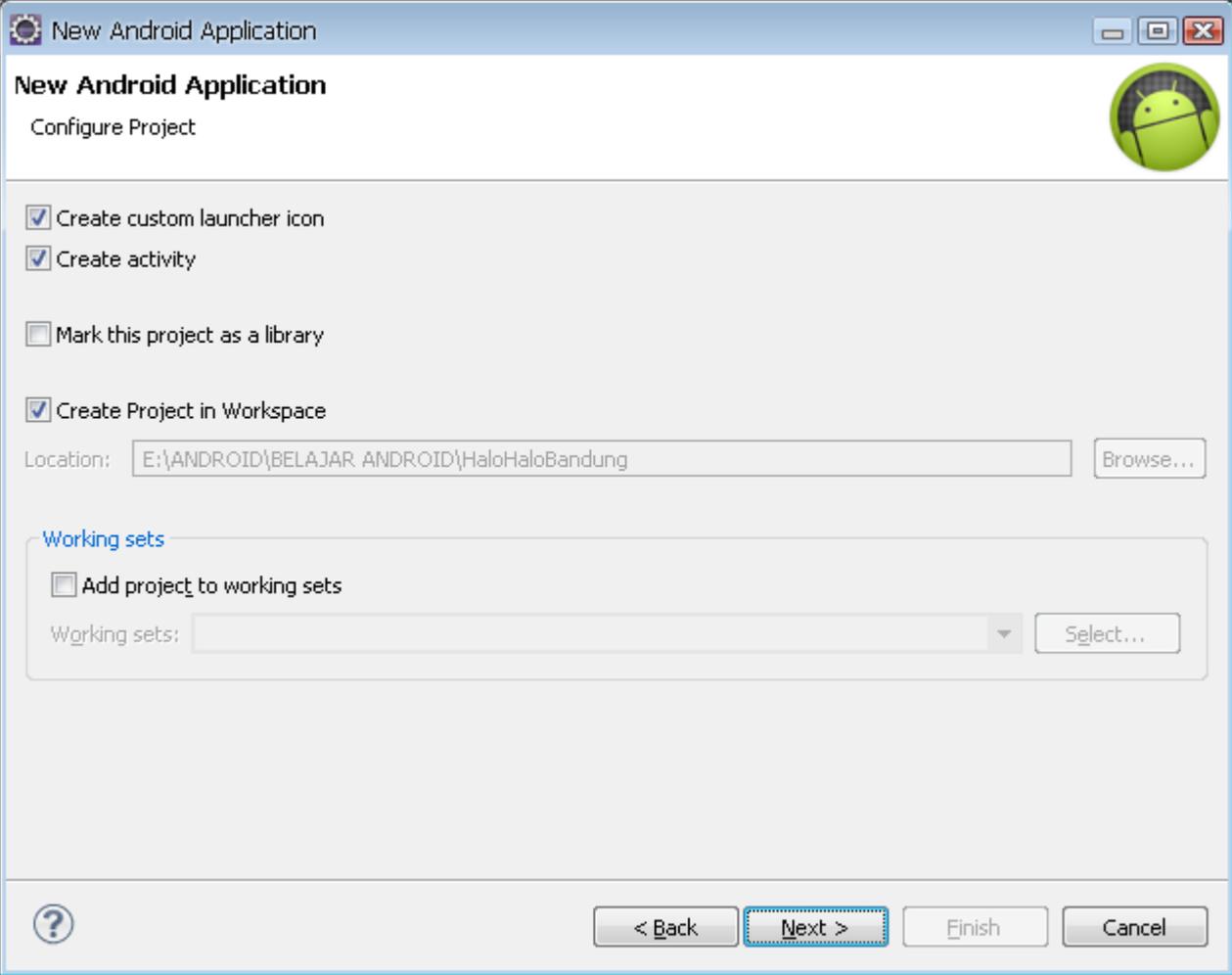
Theme: None

Choose the base theme to use for the application

< Back Next > Finish Cancel

Membuat Proyek (3)

New Android Application : Configure Project



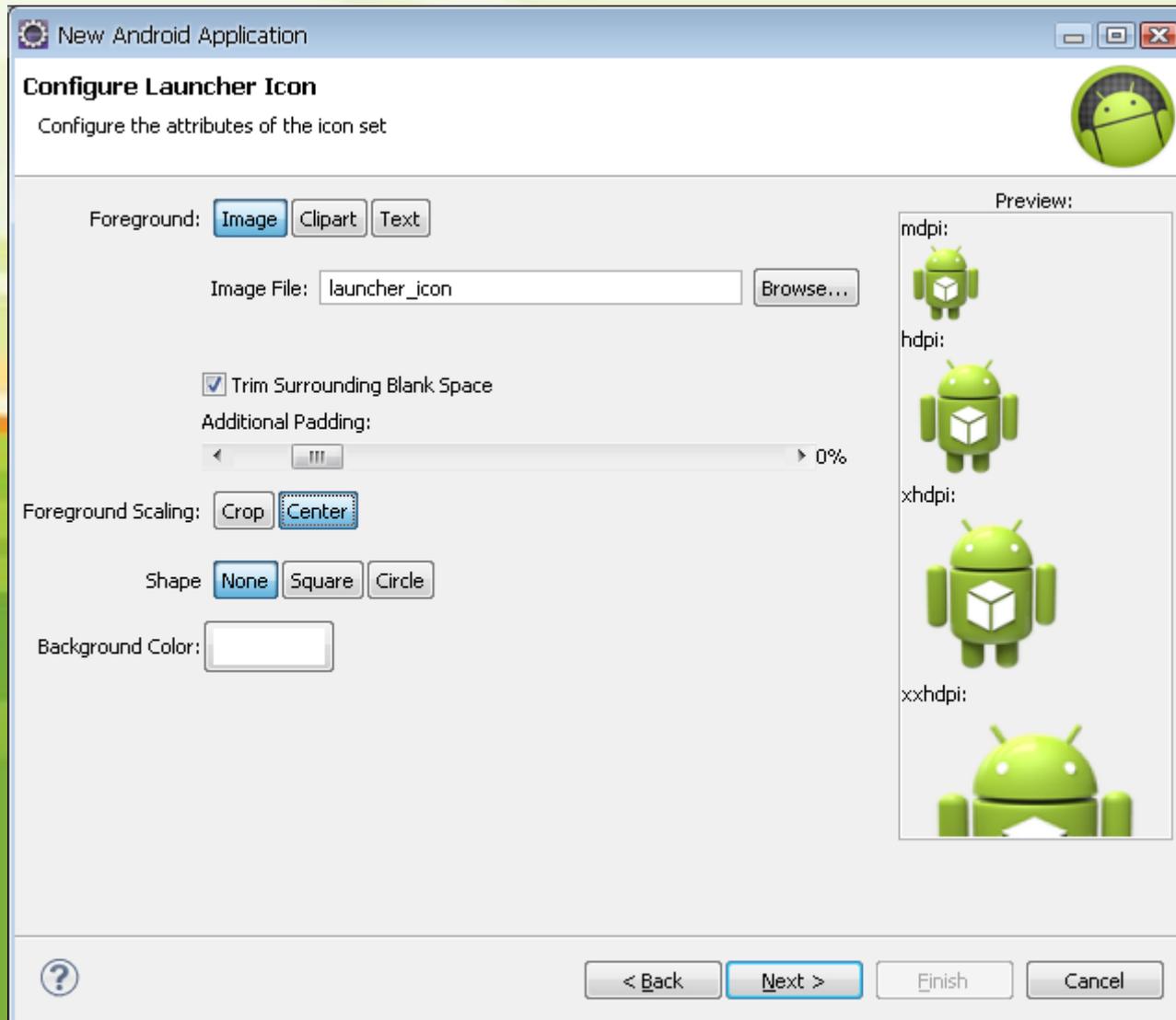
The screenshot shows the 'New Android Application' dialog box in the Eclipse IDE, specifically the 'Configure Project' step. The dialog has a title bar with the text 'New Android Application' and standard window controls. Below the title bar, the text 'New Android Application' and 'Configure Project' is displayed, along with the Android logo. The main area contains several options with checkboxes:

- Create custom launcher icon
- Create activity
- Mark this project as a library
- Create Project in Workspace

Below these options is a 'Location:' field with the text 'E:\ANDROID\BELAJAR_ANDROID\HaloHaloBandung' and a 'Browse...' button. Underneath is a section titled 'Working sets' with a checkbox for 'Add project to working sets' and a 'Working sets:' dropdown menu with a 'Select...' button. At the bottom of the dialog, there are four buttons: '< Back', 'Next >', 'Finish', and 'Cancel'. The 'Next >' button is highlighted with a dashed border.

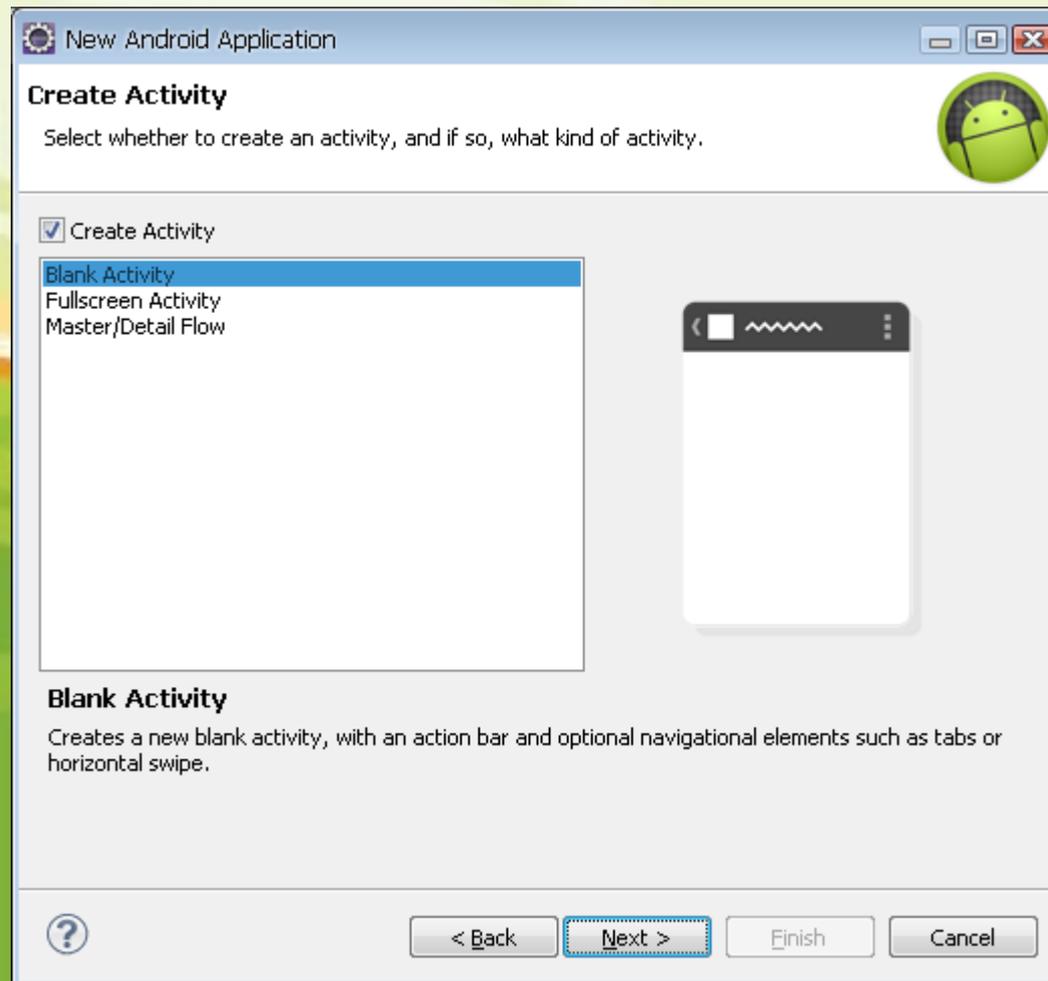
Membuat Proyek (4)

New Android Application : Configure the attributes of the icon set



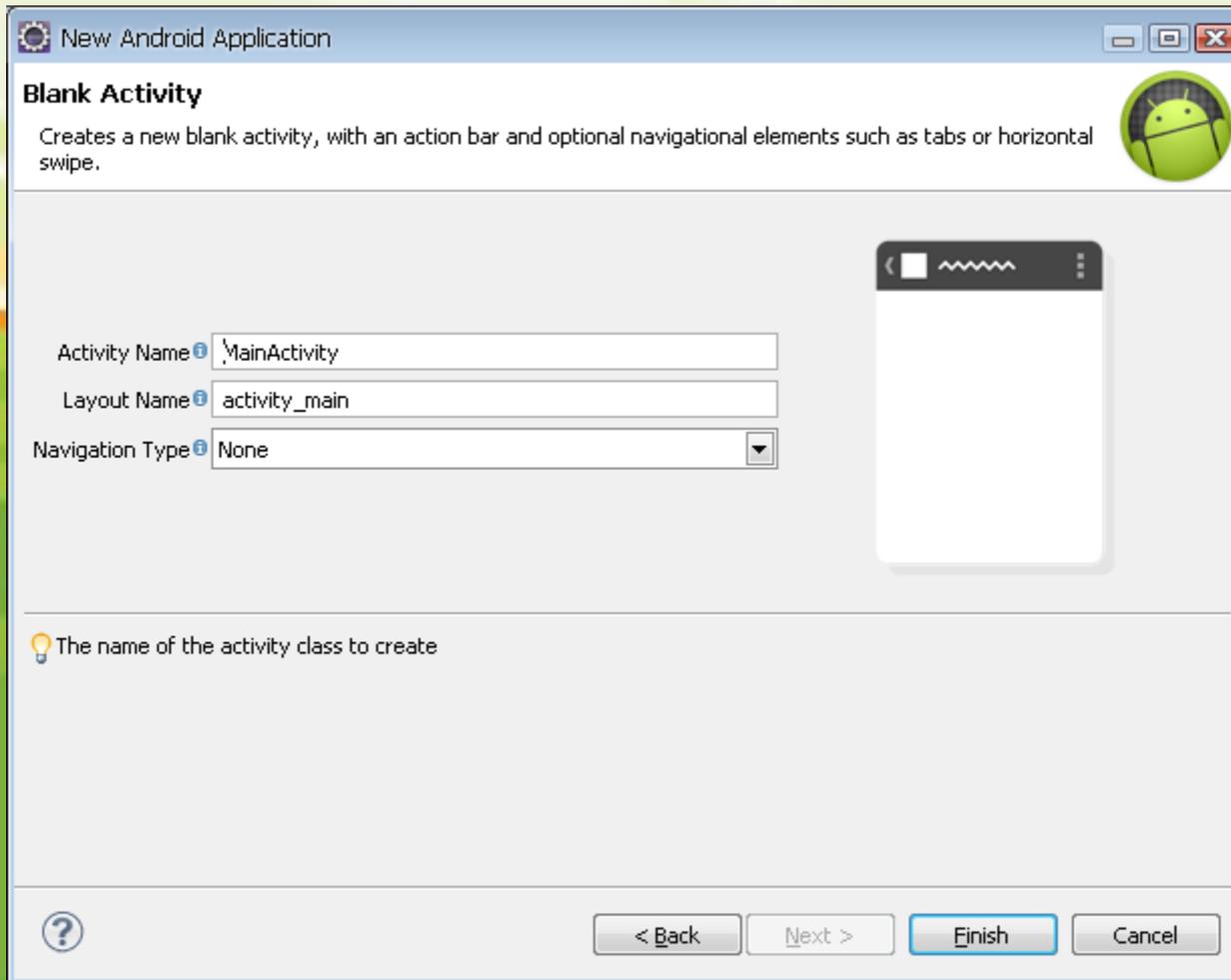
Membuat Proyek (5)

New Android Application : Select whether to create an activity, and if so, what kind of activity.



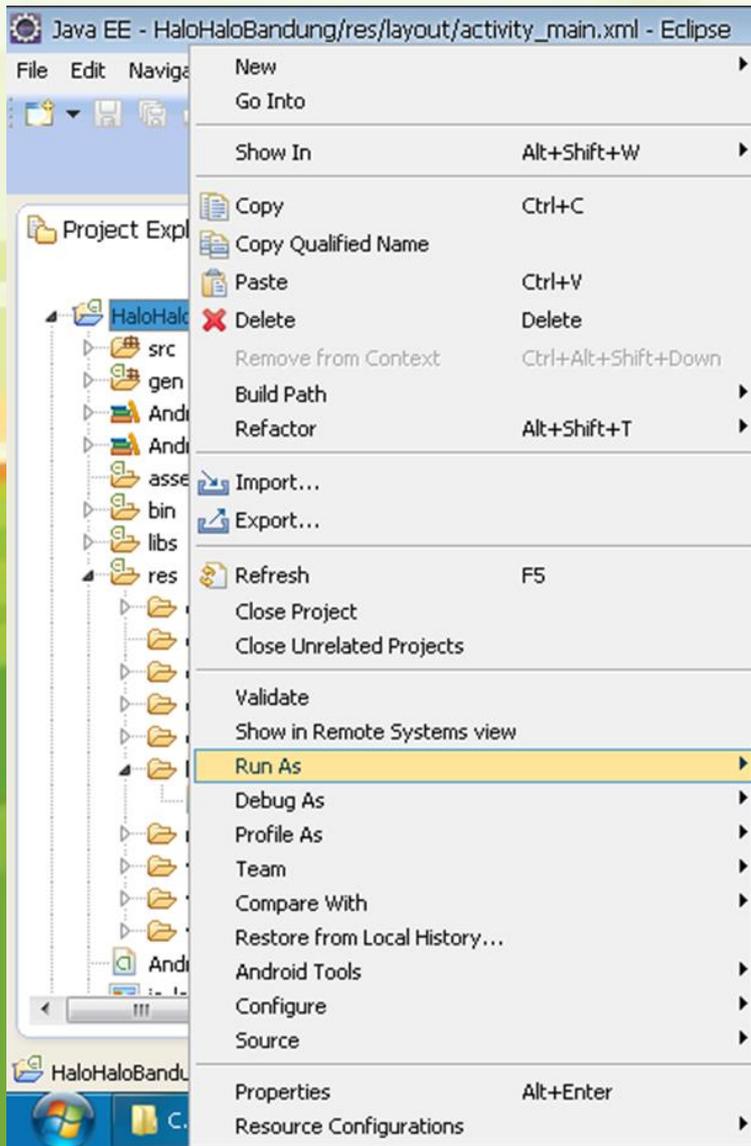
Membuat Proyek (6)

New Android Application : Create a new blank activity, with an action bar and optional navigational elements such as tabs horizontal swipe.



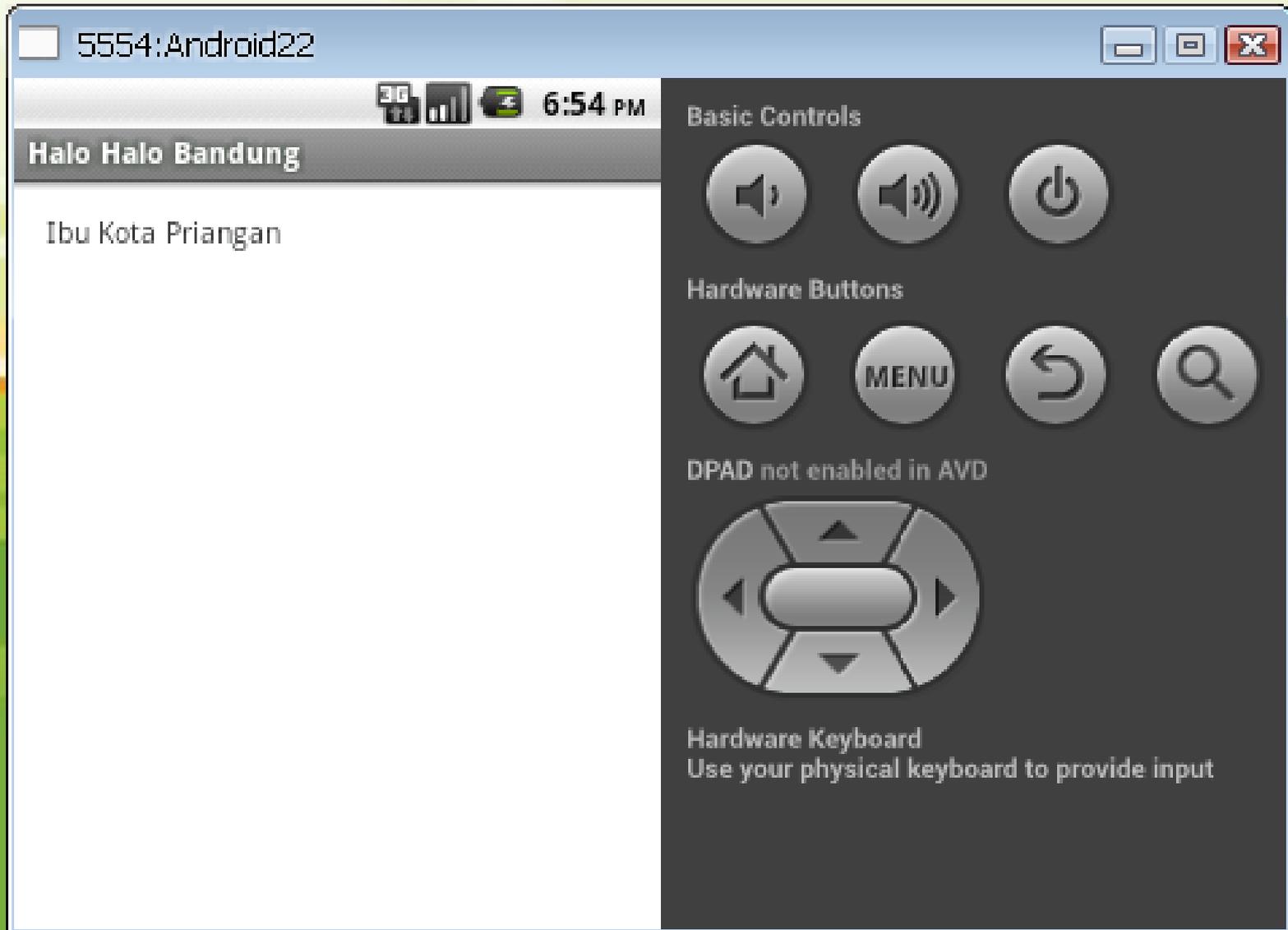
Running Project

Running dengan menggunakan AVD yang sudah kita buat tadi.



Modifikasi Project

Ubahlah kata “Hello world!” menjadi “Ibu Kota Priangan”.



Terima Kasih

