



ionic

Hybrid App Development using
Ionic Framework

Education:

- Self-taught coders
- Certified Ethical Hacker (V8)
- Mobile App Developer
 - Android Native Using Java
 - Ionic Hybrid App
- Web App Developer
 - Laravel PHP Framework 5.4
 - Front end Developer
- Data Science (focus on modelling, ML)
- Computer Vision using Deep learning

Working Experience/Current Designation:

- Data Scientist @ AirAsia Bhd
- CEO Kofix Technologies Resources
- CTO Trippal Sdn Bhd
- Internship in J Studio Kreatif as Programmer
- Web Developer for Maibasuh



Muhammad Nazmi Bin Mat Asri
Graduated, Bachelor Degree of ICT, UTP



Software needed for this course:

1. Sublime Text 3: Modern Text Editor
2. NodeJS: <https://nodejs.org/en/>
3. Java JDK:
<http://www.oracle.com/technetwork/java/javase/downloads/jdk-netbeans-jsp-142931.html>
4. Android SDK: <https://developer.android.com/studio/index.html>
 - Set ANDROID_HOME
 - Set PATH
5. Ionic Framework and Cordova: `npm install -g ionic cordova`

[HOME](#)[ABOUT](#)[DOWNLOADS](#)[DOCS](#)[FOUNDATION](#)[GET INVOLVED](#)[SECURITY](#)[NEWS](#)

Node.js® is a JavaScript runtime built on [Chrome's V8 JavaScript engine](#). Node.js uses an event-driven, non-blocking I/O model that makes it lightweight and efficient. Node.js' package ecosystem, [npm](#), is the largest ecosystem of open source libraries in the world.

Download for Windows (x64)

v6.9.5 LTS

Recommended For Most Users

[Other Downloads](#) | [Changelog](#) | [API Docs](#)

v7.5.0 Current

Latest Features

[Other Downloads](#) | [Changelog](#) | [API Docs](#)






Or have a look at the [LTS schedule](#).

JDK 8u121 with NetBeans 8.2

This distribution of the JDK includes the Java SE bundle of NetBeans IDE, which is a powerful integrated development environment for developing applications on the Java platform. [Learn more](#)

You must accept the JDK 8u121 and NetBeans 8.2 Cobundle License Agreement to download this software.

Thank you for accepting the JDK 8u121 and NetBeans 8.2 Cobundle License Agreement; you may now download this software.

Java SE and NetBeans Cobundle (JDK 8u121 and NB 8.2)		
Product / File Description	File Size	Download
Linux x86	288.83 MB	 jdk-8u121-nb-8_2-linux-i586.sh
Linux x64	284.24 MB	 jdk-8u121-nb-8_2-linux-x64.sh
Mac OS X x64	338.8 MB	 jdk-8u121-nb-8_2-macosx-x64.dmg
Windows x86	317.35 MB	 jdk-8u121-nb-8_2-windows-i586.exe
Windows x64	326.89 MB	 jdk-8u121-nb-8_2-windows-x64.exe

Android Studio

The Official IDE for Android

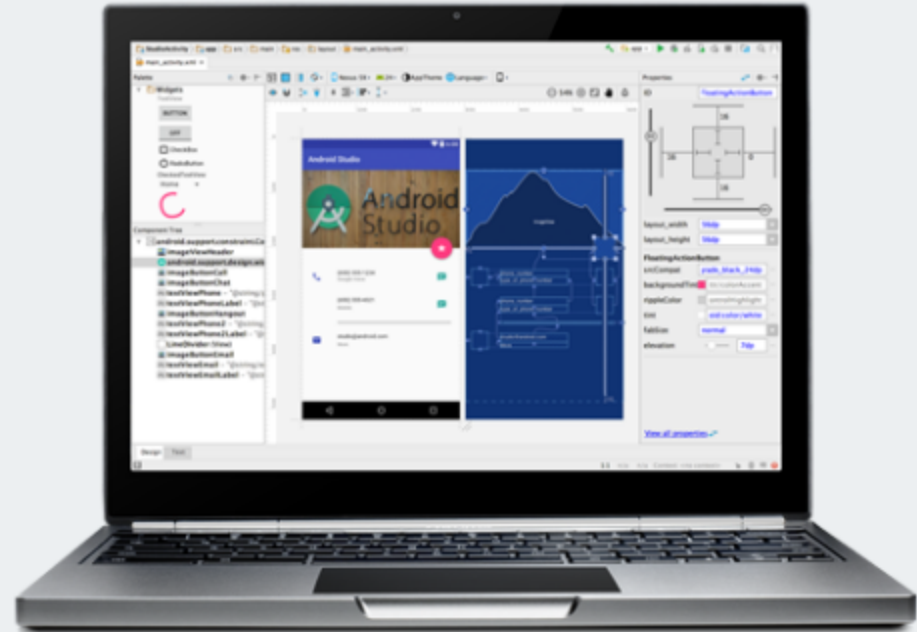
Android Studio provides the fastest tools for building apps on every type of Android device.

World-class code editing, debugging, performance tooling, a flexible build system, and an instant build/deploy system all allow you to focus on building unique and high quality apps.

DOWNLOAD ANDROID STUDIO
2.2.3 FOR WINDOWS (1,674 MB)

➤ [Read the docs](#)

➤ [See the release notes](#)





FaceDetection

~\AndroidStudioProjects\FaceDetection



Android Studio

Version 2.2.3

- ☀ Start a new Android Studio project
- 📁 Open an existing Android Studio project
- ⬇ Check out project from Version Control ▾
- 📄 Import project (Eclipse ADT, Gradle, etc.)
- 📄 Import an Android code sample

⚙ Configure... 📖 Get Help...

SDK Manager

Settings

Plugins

Import Settings

Export Settings

Settings Repository...

Check for Update

Project Defaults ▶



▼ Appearance & Behavior

Appearance

Menus and Toolbars

▼ System Settings

Passwords

HTTP Proxy

Updates

Usage Statistics

Android SDK

Notifications

Quick Lists

Path Variables

Keymap

► Editor

Plugins


► Build, Execution, Deployment

► Tools

Appearance & Behavior > System Settings > Android SDK

Manager for the Android SDK and Tools used by Android Studio

Android SDK Location: C:\Users\Nazmi Asri\AppData\Local\Android\Sdk

[Edit](#) Android SDK location should not contain whitespace, as this can cause problems with the NDK tools.

SDK Platforms

SDK Tools

SDK Update Sites

Each Android SDK Platform package includes the Android platform and sources pertaining to an API level by default. Once installed, Android Studio will automatically check for updates. Check "show package details" to display individual SDK components.

	Name	API Level	Revision	Status
<input checked="" type="checkbox"/>	Android 7.1.1 (Nougat)	25	3	Installed
<input checked="" type="checkbox"/>	Android 7.0 (Nougat)	24	2	Installed
<input checked="" type="checkbox"/>	Android 6.0 (Marshmallow)	23	3	Installed
<input checked="" type="checkbox"/>	Android 5.1 (Lollipop)	22	2	Installed
<input checked="" type="checkbox"/>	Android 5.0 (Lollipop)	21	2	Installed
<input checked="" type="checkbox"/>	Android 4.4W (KitKat Wear)	20	2	Installed
<input checked="" type="checkbox"/>	Android 4.4 (KitKat)	19	4	Installed
<input checked="" type="checkbox"/>	Android 4.3 (Jelly Bean)	18	3	Installed
<input checked="" type="checkbox"/>	Android 4.2 (Jelly Bean)	17	3	Installed
<input checked="" type="checkbox"/>	Android 4.1 (Jelly Bean)	16	5	Installed
<input checked="" type="checkbox"/>	Android 4.0.3 (IceCreamSandwich)	15	5	Installed
<input type="checkbox"/>	Android 4.0 (IceCreamSandwich)	14	4	Partially installed
<input type="checkbox"/>	Android 3.2 (Honeycomb)	13	1	Not installed
<input type="checkbox"/>	Android 3.1 (Honeycomb)	12	3	Not installed
<input type="checkbox"/>	Android 3.0 (Honeycomb)	11	2	Not installed
<input type="checkbox"/>	Android 2.3.3 (Gingerbread)	10	2	Not installed
<input type="checkbox"/>	Android 2.3 (Gingerbread)	9	2	Not installed
<input type="checkbox"/>	Android 2.2 (Froyo)	8	3	Not installed
<input type="checkbox"/>	Android 2.1 (Eclair)	7	3	Not installed

☐ Show Package Details[Launch Standalone SDK Manager](#)

OK

Cancel


Apply

Help

Packages Tools

SDK Path: C:\Users\Nazmi Asri\AppData\Local\Android\Sdk

Packages

	Name	API	Rev.	Status
<input checked="" type="checkbox"/>	Tools			
<input checked="" type="checkbox"/>	Android 7.1.1 (API 25)			
<input checked="" type="checkbox"/>	Android 7.0 (API 24)			
<input checked="" type="checkbox"/>	Android 6.0 (API 23)			
<input checked="" type="checkbox"/>	Android 5.1.1 (API 22)			
<input checked="" type="checkbox"/>	Android 5.0.1 (API 21)			
<input type="checkbox"/>	Android 4.4W.2 (API 20)			
<input type="checkbox"/>	Android 4.4.2 (API 19)			
<input type="checkbox"/>	Android 4.3.1 (API 18)			
<input type="checkbox"/>	Android 4.2.2 (API 17)			
<input type="checkbox"/>	Android 4.1.2 (API 16)			
<input type="checkbox"/>	Android 4.0.3 (API 15)			
<input type="checkbox"/>	Android 4.0 (API 14)			
<input type="checkbox"/>	Android 3.2 (API 13)			
<input type="checkbox"/>	Android 3.1 (API 12)			
<input type="checkbox"/>	Android 3.0 (API 11)			
<input type="checkbox"/>	Android 2.3.3 (API 10)			
<input type="checkbox"/>	Android 2.3.1 (API 9)			
<input type="checkbox"/>	Android 2.2 (API 8)			
<input type="checkbox"/>	Android 2.1 (API 7)			
<input checked="" type="checkbox"/>	Extras			

Show: ☒ Updates/New ☒ Installed Select [New](#) or [Updates](#)☐ Obsolete[Deselect All](#)

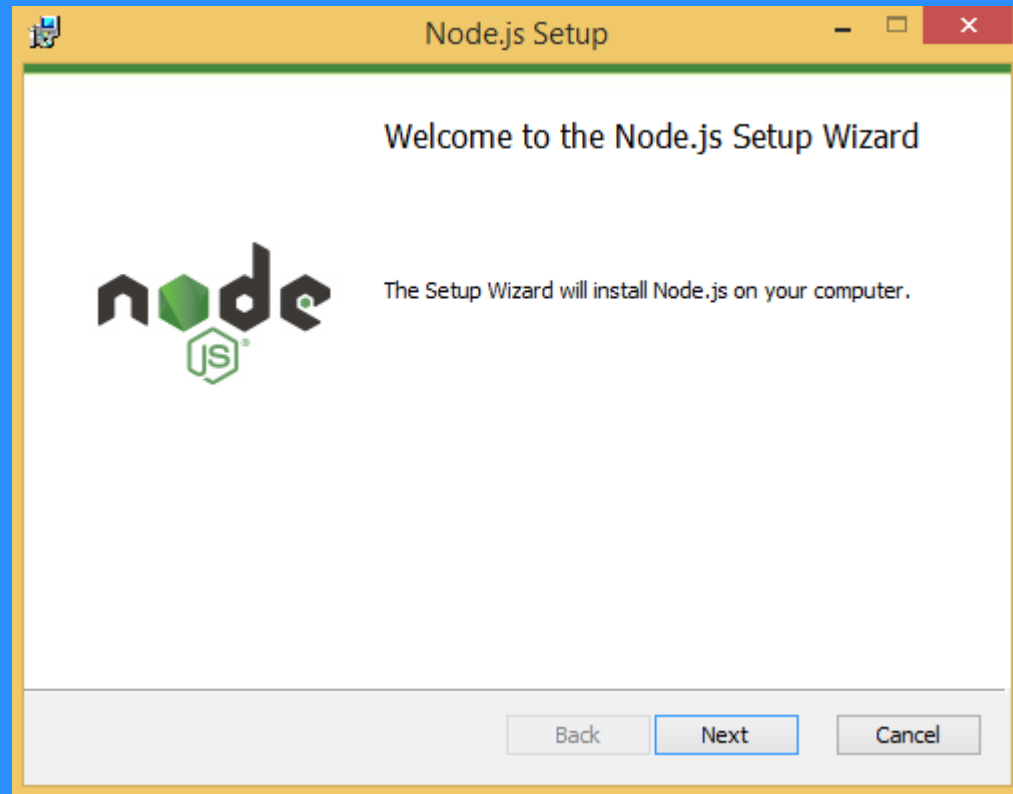
Install packages...

Delete 85 packages...

Done loading packages.

Step 1

Install Node.js : <https://nodejs.org/en/> & open your terminal, try npm command



```
C:\Users\Nazmi Asri\Desktop Tue 02/07/2017 23:46:29.26
λ npm

Usage: npm <command>

where <command> is one of:
  access, adduser, bin, bugs, c, cache, completion, config,
  ddp, dedupe, deprecate, dist-tag, docs, edit, explore, get,
  help, help-search, i, init, install, install-test, it, link,
  list, ln, login, logout, ls, outdated, owner, pack, ping,
  prefix, prune, publish, rb, rebuild, repo, restart, root,
  run, run-script, s, se, search, set, shrinkwrap, star,
  stars, start, stop, t, tag, team, test, tst, un, uninstall,
  unpublish, unstar, up, update, v, version, view, whoami

npm <cmd> -h      quick help on <cmd>
npm -l            display full usage info
npm help <term>   search for help on <term>
npm help npm      involved overview

Specify configs in the ini-formatted file:
  C:\Users\Nazmi Asri\.npmrc
or on the command line via: npm <command> --key value
Config info can be viewed via: npm help config

npm@3.10.8 C:\laragon\bin\nodejs\node_modules\npm

C:\Users\Nazmi Asri\Desktop Wed 02/08/2017 7:27:22.46
λ |
```

Step 2

In your terminal, run '**npm install -g cordova ionic**'. This is to install cordova and ionic on your computer, that can be used globally (-g)

```
C:\Users\Nazmi Asri\Desktop Wed 02/08/2017 7:27:22.46  
λ npm install -g cordova ionic
```

Step 3

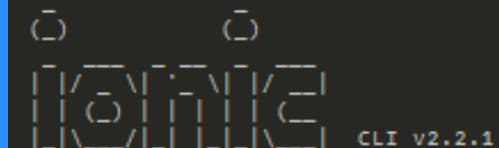
In your terminal, type 'ionic' and press enter. This is to check whether ionic is working or not.

```
C:\Users\Nazmi Asri\Desktop Wed 02/08/2017 7:37:44.71  
λ ionic
```

λ ionic

Dependency warning - for the CLI to run correctly,
it is highly recommended to install/upgrade the following:

Please install your Cordova CLI to version >=4.2.0 `npm install -g cordova`



Usage: ionic task args

=====

Available tasks:

(use --help or -h for more info)

start	.....	Starts a new Ionic project in the specified PATH
serve	.....	Start a local development server for app dev/testing
setup	.....	Configure the project with a build tool (beta)
generate	.....	Generate pages and components
platform	.....	Add platform target for building an Ionic app
run	.....	Run an Ionic project on a connected device
emulate	.....	Emulate an Ionic project on a simulator or emulator
build	.....	Build (prepare + compile) an Ionic project for a given platform.
plugin	.....	Add a Cordova plugin
resources	.....	Automatically create icon and splash screen resources (beta)
		Put your images in the ./resources directory, named splash or icon.
		Accepted file types are .png, .ai, and .psd.
		Icons should be 192x192 px without rounded corners.
		Splashscreens should be 2208x2208 px, with the image centered in the middle.
upload	.....	Upload an app to your Ionic account
share	.....	Share an app with a client, co-worker, friend, or customer
lib	.....	Gets Ionic library version or updates the Ionic library
login	.....	Login to your Ionic account
io	.....	Integrate your app with Ionic Cloud services
security	.....	Store your app's credentials for the Ionic Cloud
push	.....	Upload APNS and GCM credentials to Ionic Push
package	.....	Use Ionic Package to build your app
config	.....	Set configuration variables for your ionic app
service	.....	Add an Ionic service package and install any required plugins
add	.....	Add an Ion, bower component, or addon to the project

Step 4

Let's create a blank ionic project , run **'ionic start myApp blank'**

```
C:\Users\Nazmi Asri\Desktop Wed 02/08/2017 8:27:42.48  
λ ionic start myApp blank
```

C:\Users\Nazmi Asri\Desktop Wed 02/08/2017 8:27:42.48

λ ionic start myApp blank

Dependency warning - for the CLI to run correctly,
it is highly recommended to install/upgrade the following:

Please install your Cordova CLI to version >=4.2.0 `npm install -g cordova`

Creating an Ionic app in C:\Users\Nazmi Asri\Desktop\myApp based on the blank template.

Downloading: <https://github.com/driftyco/ionic-app-base/archive/master.zip>

Downloading: <https://github.com/driftyco/ionic-starter-blank/archive/master.zip>

Installing npm packages (may take a minute or two)...

/

📱 🎧 📱 🎧 Your Ionic app is ready to go! 📱 🎧 📱 🎧

Some helpful tips:

Run your app in the browser (great for initial development):

ionic serve

Run on a device or simulator:

ionic run ios[android,browser]

Share your app with testers, and test on device easily with the Ionic View companion app:

<http://view.ionic.io>

Create a free Ionic account to share and test apps with Ionic View?

(Y/n): n

C:\Users\Nazmi Asri\Desktop Wed 02/08/2017 8:29:14.41

λ |

Step 5

1. Now, enter into the project folder – **cd myApp**
2. Run '**ionic serve --lab**' to execute ionic app on web browser such as Google Chrome. (--lab) means that we want to view it on iOS and Android view in browser.
3. If ionic asked which address to use, select the one with '**localhost**'
4. Next, go to your web browser (Google Chrome, Edge, Firefox) and open <http://localhost:8100/ionic-lab>

```
C:\Users\Nazmi Asri\Desktop Wed 02/08/2017 8:29:14.41
```

```
λ cd myApp\
```

```
C:\Users\Nazmi Asri\Desktop\myApp (myapp@1.1.1) Wed 02/08/2017 8:31:52.90
```

```
λ ls
```

```
bower.json  gulpfile.js  ionic.config.json  package.json  scss/  
config.xml  hooks/        node_modules/      plugins/       www/
```

```
C:\Users\Nazmi Asri\Desktop\myApp (myapp@1.1.1) Wed 02/08/2017 8:31:54.80
λ ionic serve --lab
*****
Dependency warning - for the CLI to run correctly,
it is highly recommended to install/upgrade the following:

Please install your Cordova CLI to version >=4.2.0 `npm install -g cordova`

*****

Multiple addresses available.
Please select which address to use by entering its number from the list below:
1) 172.16.75.244 (Ethernet)
2) 192.168.126.1 (VMware Network Adapter VMnet1)
3) 192.168.101.1 (VMware Network Adapter VMnet8)
4) localhost
Address Selection: 4
Selected address: localhost
Running live reload server: http://localhost:35729
Watching: www/**/*, !www/lib/**/*, !www/**/*.*map
✓ Running dev server: http://localhost:8100
Ionic server commands, enter:
  restart or r to restart the client app from the root
  goto or g and a url to have the app navigate to the given url
  consolelogs or c to enable/disable console log output
  serverlogs or s to enable/disable server log output
  quit or q to shutdown the server and exit

ionic $
```



Windows Security Alert



Windows Firewall has blocked some features of this app

Windows Firewall has blocked some features of Node.js: Server-side JavaScript on all public and private networks.



Name: Node.js: Server-side JavaScript

Publisher: Node.js

Path: C:\aragon\bin\nodejs\node.exe

Allow Node.js: Server-side JavaScript to communicate on these networks:

- ☒ Private networks, such as my home or work network
- ☐ Public networks, such as those in airports and coffee shops (not recommended because these networks often have little or no security)

[What are the risks of allowing an app through a firewall?](#)



Allow access

Cancel



myApp

iOS

Ionic Blank Starter

Android

Ionic Blank Starter