Android App Development!

-Dimpy Chhabra



Lil bout me, huh?

- ★ Junior Year @IGDTU || Department of IT
- ★ I've worked on the following technologies: Android App Dev, Server setup and management, software designing and building, IoT, tab bit of Machine Learning and Data Science.
- ★ Based on a project, my team stood 6th all over India at the Intel Higher Education Challenge.
- ★ And this summer I'll be joining **Expedia** as an intern.
- ★ Fork Me: github.com/dimpy-chhabra/Android_ACM



Today's Agenda:

- → Understand Android What, why & how?
- Check out Android Developer Studio
 Get your hands a lil dirty..
- → Build a pretty interface
 Front End Stuff.
- → Back-End Let's get appy.
- → Build an APP!
 Shall we?

How many things do you have to learn to actually have your own product?



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Just one! Android.

(Phew..!

So, one thing would do?)



Evolving, I heard?

www.android.com/history

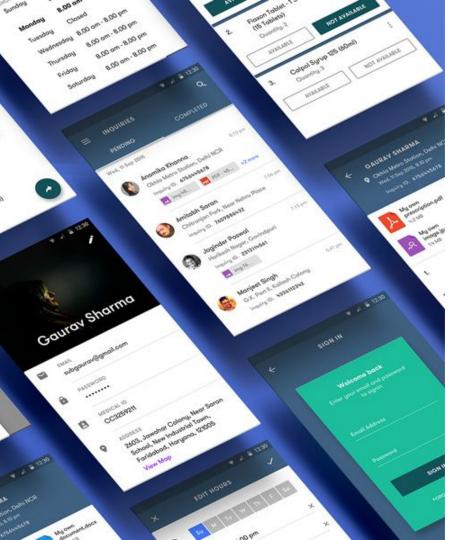
Types

Today Android based smart devices have over

TWO BILLION

Global Users.

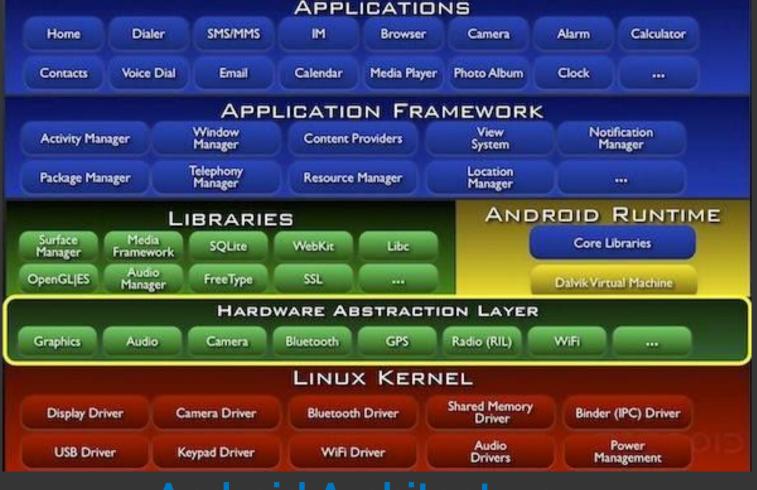




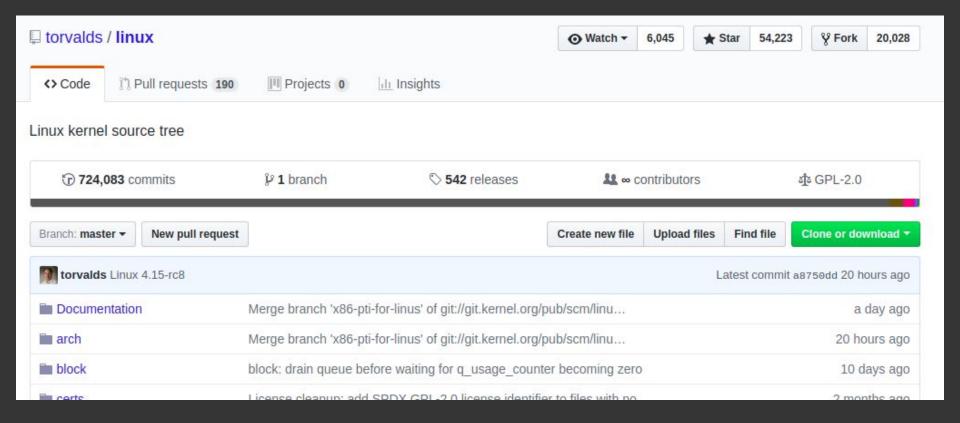
Why is it so successful?

- ★ Open Source (Linux Based)
- **★** Highly Customizable
- ★ Available free of cost to device
- ★ Manufacturers
- ★ It's oh-so-pretty
- **★** Hardware Diversity
- **★** Strong Developer Community
- ★ The Google Ethos!

androidauthority.com/five-reasons-android-killing-apple-234364/



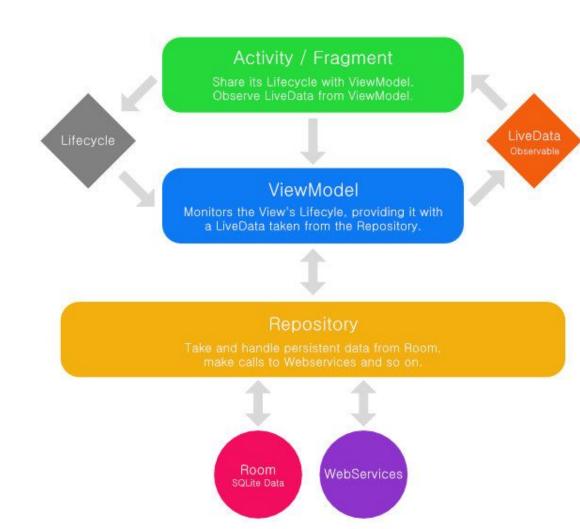
Android Architecture



Linux Kernel (Minimal Operating System)

source.android.com/devices/archit ecture/

This is what we are gonna work on...





2. How?

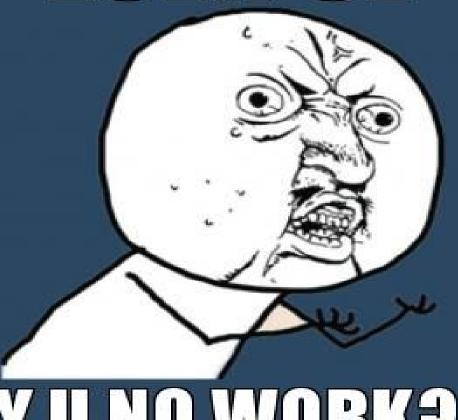
Android Apps can be built in Eclipse or Android Developer Studio.

→ Eclipse

Discontinued.

But why??

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2. How?

Android Apps can be built in Eclipse or Android Developer Studio.

→ Developer Studio

We got gradle here!





Meet Android Developer Studio 2.3.2



Android Studio

Shall we..?

Nothing to do here!



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YAY! YOU BUILT YOUR FIRST APP!

Take a minute to realize that you can now, BUILD AN APP. ikr.



DATA!

So now we know what a backend is? Good.

Now, how?

→ Getchya own Server

These days you get many webservers for free to host your database on.



Some free hosting websites:

Hostinger.com in.000webhost.com



JSON

JavaScript Object Notation









DATA!

So now we know what a backend is? Good.

Now, how?



Go FIREBASE

Firebase is a web and mobile application development platform. It'll take care of all the complicated stuff.

Ex.

Authenticating The user Getting Real-time Data etc.

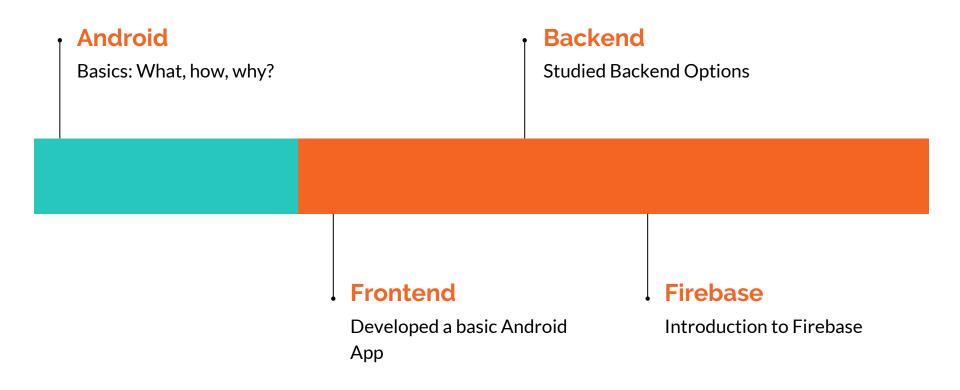
FIREDASE.







Milestones from today's session.



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Other Android Platforms

Android Things.

Deploying Internet of Things with Android

ARCore
Develop Android
Apps with
Augmented
Reality

Android Wear
Build Applications
for Android
Watch.
Android
TV/Auto...

This session was conducted by ACM-Student Chapter IGDTUW community.



Good luck!

That was quite a thrill.

Hope you learnt something new today and enjoyed the session.
Looking forward to see you again!

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