

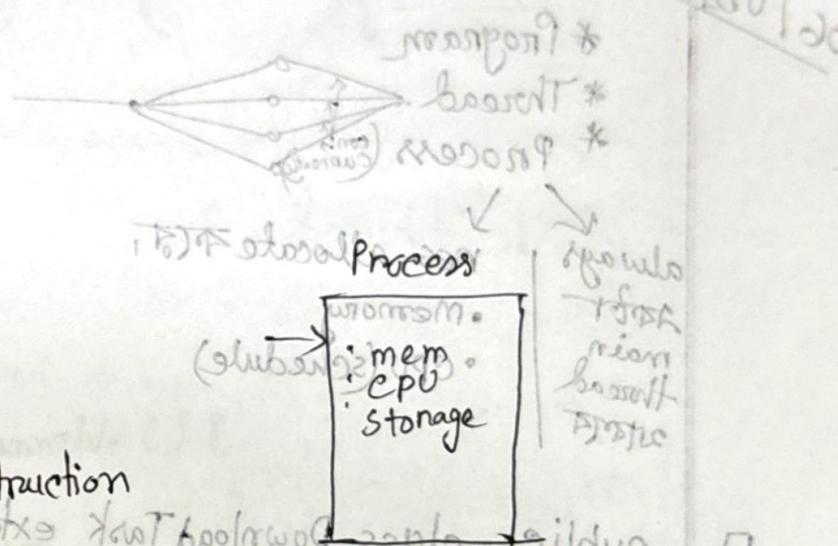
Final
29/07/2025

Thread - concurrently কর্তৃত হয়

parallel

Cores 1 } } Cores 2
↓ ↓
Process 1 and Process 2

২টি Task
independently
run করা
(without hampering
each other)



• program is an instruction

• dependency না থাকলে concurrently processing আগামে

যাবে,

• Parallel \rightarrow independently করা হবে

• concurrent \rightarrow time depen., resource share করা

• thread concurrently করা করা (resource share করা)

dependency করা (resource share করা)

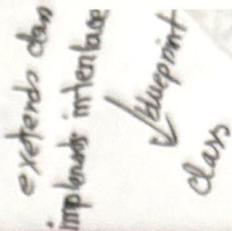
• একটি process এর মধ্যে এক একটি thread

declare করা (প্রোজেক্ট) স্টেটিউন করা করা

• Activity call করা / create করা করা / run

করা করা করা, Activity destroy করা করা

process করা করা



- Process Heirarchy?

UI thread → User Interface thread
Android A child of UI

Sunday quiz—Syllabus thread.

* Program

* Thread

* Process (containing current)

always allocate

- Memory
- CPU (schedule)
- per process

```
    public class DownloadTask extends AsyncTask<URL, Integer, Long> {
        protected void onPreExecute() { ... }
```

```
public void onProgressUpdate (Integer progress) {  
    Param[1] }  
    meter }  
    list type
```

public void onPostExecute (Long val) {
 System.out.println("Value is " + val);
}

ଫାର୍ମ ୩ ପୋତରୁ ପିନିକା , ଦୁଇ ଟଙ୍କା ଲୋକଙ୍କ କାହାରେ

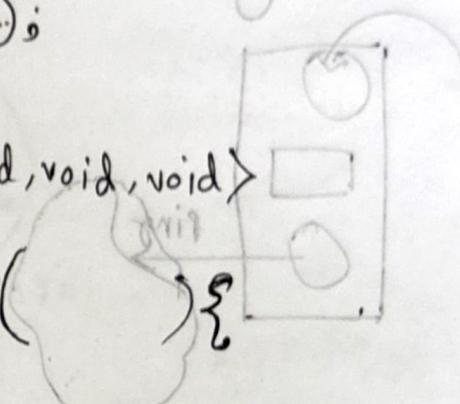
Download Task dt = new DownloadTask();

dt.execute(url1, url2, url3, url4, ...);

Q

public ----- <Void, void, void>

public void doInBackground() {



Soln.

Soln 4:

executor.execute(new Runnable() {

public void run() {

final Bitmap b = loadImage(...);

handler.post(new Runnable() {

public void run() {

mImage.setImageBitmap(b);

});

});

Ass-1 : deadline Saturday (8-8-25)

Ass-2 : 23-08-25

=

• android specific dependencies

• long running task → UI thread & run

in a child thread

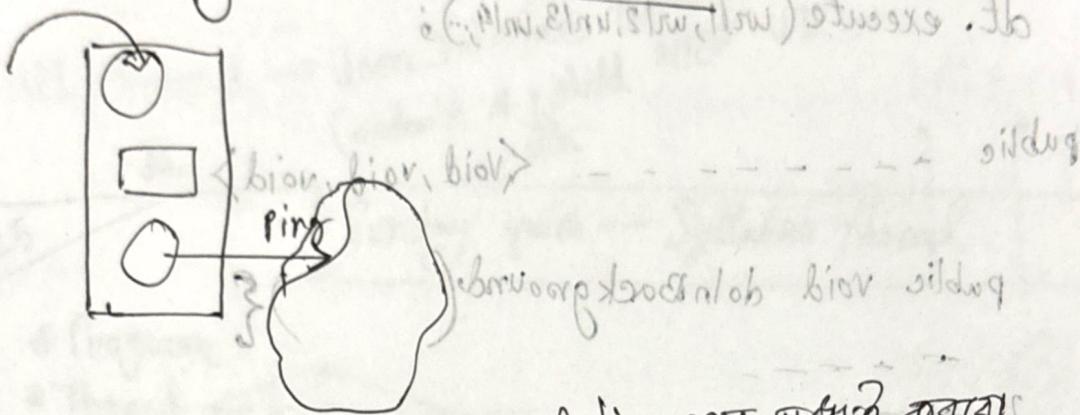
• একটি রুট

ক্ষয়তি সামনে (crash
ক্ষয়তি 5s পর)

Ass-2 → SQLite App (base 64) → converting to string

Thursday
07/08/25 084 DHK 100% Test

Accessing Remote Resources



loading এর কাটে encapsulation এর মধ্যেই কোথা
child thread এ

WebView :

WebView :
benefits → No need to handle remote connections

Client-Side SDK:

API-Key: (J... - egenId) = d qonidit lariit
f() sldenryg wscs) tkoq. sldenrat
f() rwsr bior gildurq
ic(d) qoniditse, s pomm

८८-४०-८८ : १-२२A

→ Wissenswertes für Sie über Biobrands.

ଦେବାନନ୍ଦ ମହାପାତ୍ର
(୧୯୨୮ ଫେବୃରୀ)

Dessert-blintz 13 11

ପାତ୍ର ଗୁଣି

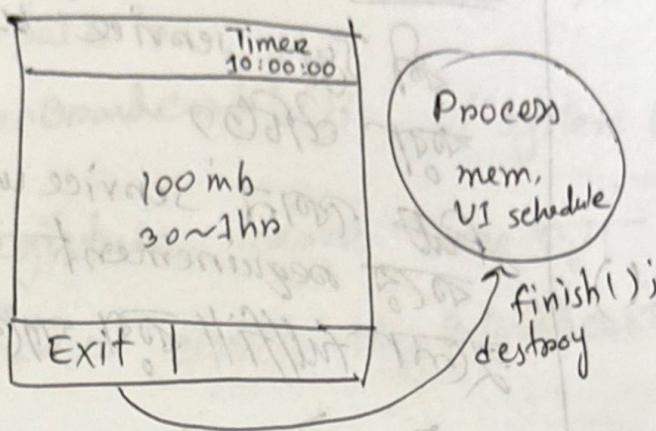
principle of priori as axioms (Postulate) $\{PA\}$ derived \leftarrow c-cA

12/08/25

- mem management
or problem
- static modifier got disadvantage
- Singleton Class

Service (Main thread এবং বাইরে run হয়)

Problem:



Soln:

- এক অলাদা process তে create হয়
- UI এবং বাইরে run হয়।
- inter process communication
- Service process এর value শিল্প UI process কে pass করে
 - Unbounded service → specific করে complete করে নিতে destroy হয়,
 - stopSelf(): if(x=10){ stopSelf(); } startService(i)
- stopService() → i pass করতে

To
stop.

public class MySingletonClass {

private MySingletonClass() {} }

private MySingletonClass m = new MySingletonClass();

public static MySingletonClass getInstance() {}

return m;

}

Bound Service

bindService (i)

abstract {
 OnCreate()
 onStartCommand()
 onBind()

• onBind()

Ques: • Problem হলু কী?

কী Type service use
কোর্টে মিটে?

কী বলতে service use
কোর্টে requirement
কোর্ট full/fit কোর্ট কোর্টে?

কোর্টে code

Singletone Class

• Declaration of service in
Android manifest

নথিরিমন্দ কোর্টে কোর্টে.

চূক কোর্টে প্লায়েগ কোর্টে কোর্টে কোর্টে.

কোর্টে প্রক্রিয়া কোর্টে কোর্টে কোর্টে কোর্টে.
 (i) onBind()
 bindService

{(Intent) (01=x) : ()7/29/2020 }
 কোর্টে কোর্টে i.e. () onBind()

কোর্টে কোর্টে কোর্টে কোর্টে কোর্টে

কোর্টে কোর্টে কোর্টে কোর্টে কোর্টে
 কোর্টে কোর্টে কোর্টে কোর্টে কোর্টে

C.W
17/08/2025
Sunday

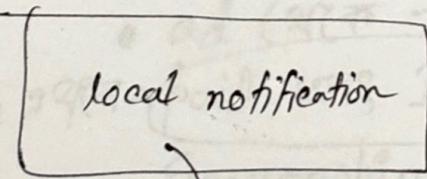
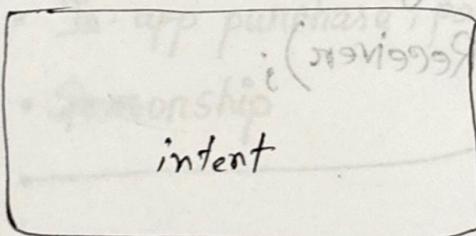
Broadcast

□ intent i = new Intent();
i.putExtra
sendBroadcast(i); // System broadcast

□ Registration means tune করুন

□ public class MyBroadcastReceiver extends BroadcastReceiver {

 public void onReceive(Context context, Intent i) {
 String action = i.getAction();



for user notification

manifest file (static registration)

<receiver name="MyBroadcastReceiver">

<intentfilter>

<action>

<intentfilter>

<receiver>

রোডে রেজিস্ট্রেশন
করে রয়েছেন
app close আর
end dead n
রোডে রেজিস্ট্রেশন
পরীক্ষা করুন

□ String action = intent.getAction();

if (action.equals("BOOT_COMPLETED")) {

 // code for boot completed

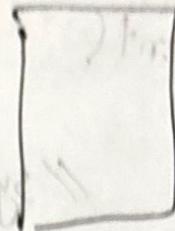
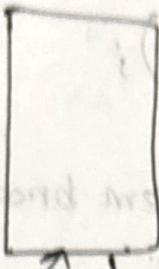
 else if (action.equals("BATTERY_LOW")) {

onStart() {

register();

onCreate();
onStart();

}



onStart() {

register();

@Override

protected void onStop() {

super.onStop();

LocalBroadcastManager.getInstance(this)

unregisterReceiver(mReceiver);

}

"unregisterReceiver(mReceiver)"

<unregisterReceiver>

<receiver>

<unregisterReceiver>

<unregisterReceiver>

registerReceiver

notifier

notifier

notifier

notifier

(notifier, priority)

(notifier, priority)

(notifier, priority)

Tuesday
19.08.2023
C.W

12 → 10 → 5
6 → 3 → 3

12
1
10
12
 $\frac{10}{12}$
 $10 \times 10 = 100/12 = 8.$

base64 string (for image encode in project)

58ti

Apps business Model

auto payment

- Paywall (Unlocks contain) → subscription based

example: e-books, netflix, chonki

- In-app purchase, paid app → user pays google

- Sponsorship

-

ad (যেকো) → advertiser (ব্যবসা পরিকার করে দেয়া হবে)

- google এলে → paid এবং In-app purchaser → merchant account

payment gateway → Sponsorship, paywalls
or offline

30% রেটিংে google
15%

- App publish করতে developer acc লাগব, \$25 to register

Gmail, google acc

\$10 রইল withdraw
হেব ২৩২৫

HelloWorld!

CW
8/08/2025

(30-8-25)

Quiz - Tuesday : mcQ (Business model & App publish)

L1, RL, FL, TB

misunderstanding board → (misunderstanding) Noway.

new, different, extend: always balance this.

always good idea to keep balance between new and old.

misunderstanding.

misunderstanding (new vs old) → new.

misunderstanding → new business model, marketing, positioning, target audience.

old

of old. New idea as a new building. New.

new idea.

misunderstanding

new vs old

new