Projects Citeria

1) It needs to design sme UI

(at least three activities) 2) Needs to have some interaction with sensors

3) Needs to have some handling of data on using databases / data connectivity or over the network. Show background work is done by communicating across objes = Intent, Service and Notification. Threads => Java has good support for threads. UI => Main Thread/UI Thread. > slower in practice than onthing related to No cracesses to file or database or network through this thread' =) Android expects serponsive UIs.

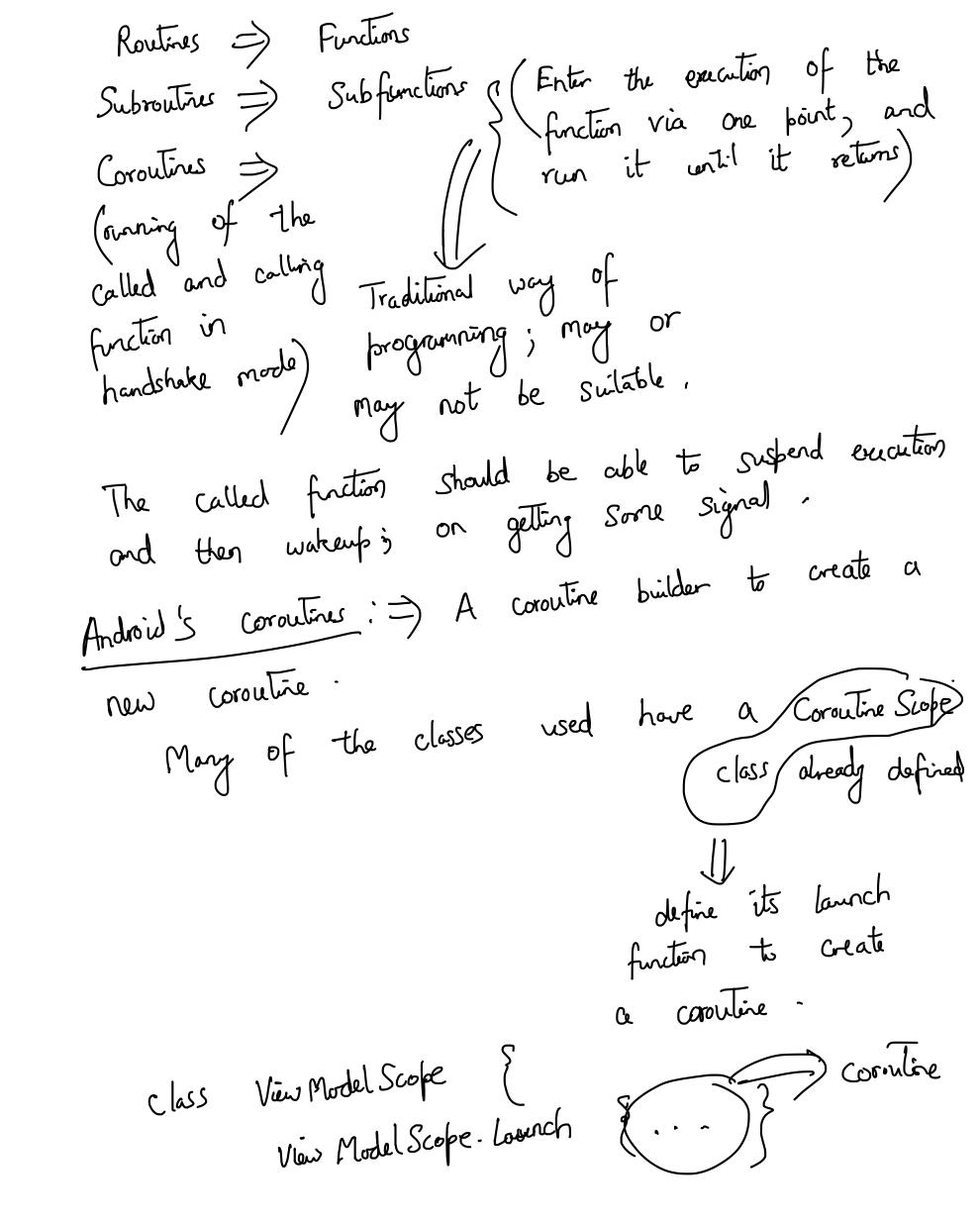
Threads was often used () Hard to use developers. Need manual track of the state of each thread. if states (Thread 2) == RUMING:

Threads ore part of the language.

(helps avoid race conditions)

How? =) Thread 1. resume () } How? synchronized { No variable can be accessed in any other thread if it is accessed within the synchronized block, Theating and distroying threads have an overhead.

(because requires giving to beame). What is the allernative to threads ? => Corontires =>



class Activity life Cycle Scope. lounch {.---} How to make the subfunctions aware of the fact that it can be suspended? If a finction can resume at the same point without giving a wrong result, then it con be utilizéed as à co-routine. Should not use global variables; should not access resources like files where information has changed) suspend fun abc Delay (500) Logger (11. --- ??) There is a Job class returned by the launch function. When you have the onstop function called (on killing of an activity), you can call the Jobo cancel() function to clean up the suspended thread),

Class Vieur Model Scope List View Lv = new List View Job job? = View Model Scope · Lounch } (1) Data is static; no updates are 1x read the data from file and possible populate lu */ 2 Clean-up or 3 closing of files class Activity 2 will not hoppen for on Stop () {

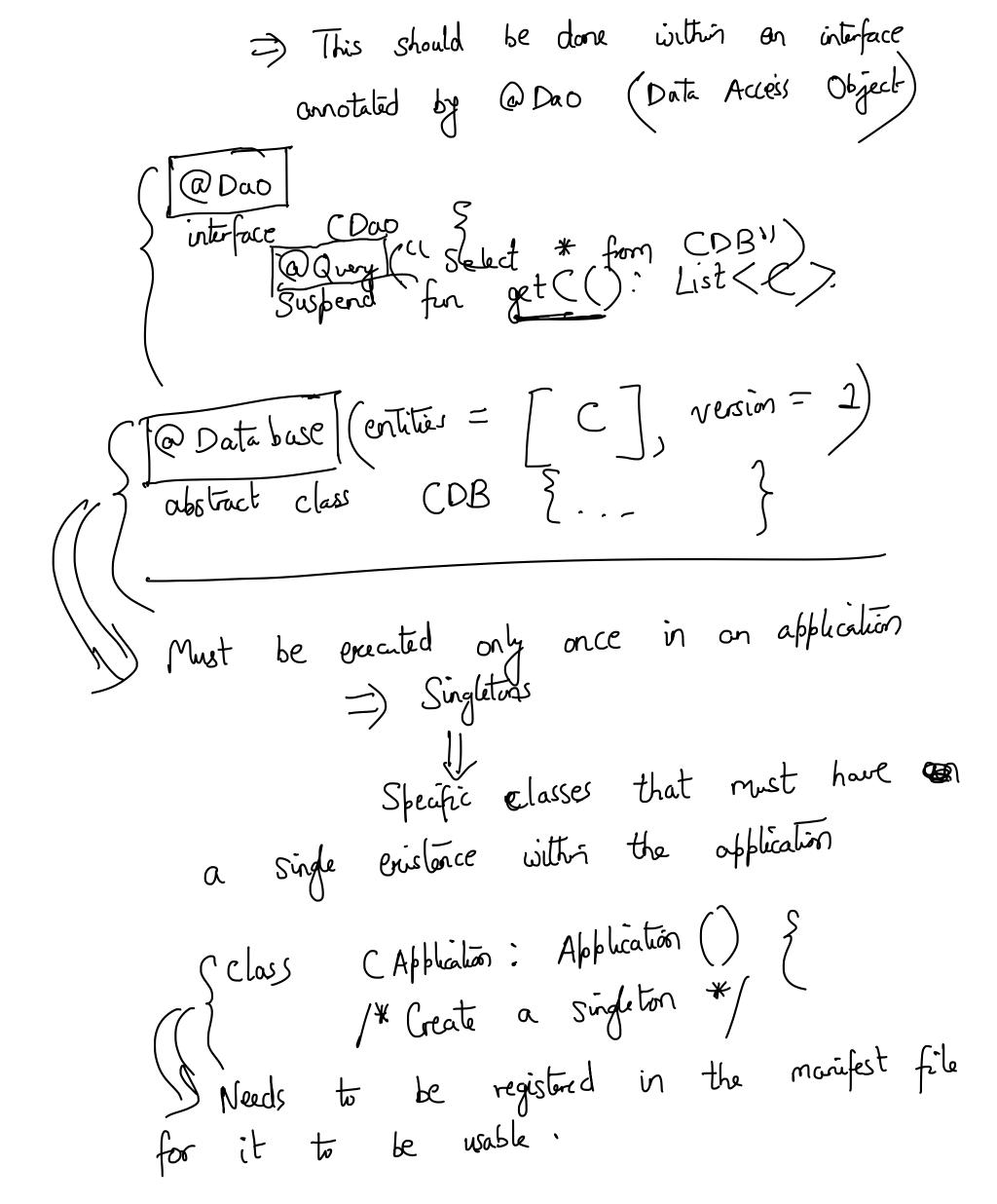
job?.concel () [how to remove

this inconvenience] if the app is closed when this View ModelScope's Launch thead is run if (vur) != null) then operate on (var) Nullable variables within the lounch block itself, register a function called vier Life y de Owner. repeaton life y cle (Life Cycle. State_STARTED)} /* clear up */

The above code within this registered block would be automatically run by on Stop. This is to ensure that the code is more begically organized

How to white databases => Run SQL arraises to actually use databases. ER model (Entity Relationship) Mapping of 00 model with the ER model-Pre-defined annotations of classes, such as @ Entite
and @ Prinary Key, data class No need of additional Princykey val id: UID val Title: String mapping of class variables with the Schema columns.

Access data from a DB => (Trud) Run queries.



How do we show the content of the database on the list View?? Can I retneve data from before? => Register a (CFlow) class at the time of defining the Lounch block. Flow class has the methods to directly get the data inetially and update it whenever Suspend for get Result: List < >> = CDB. get C() using registering?? How ore we For cleanify at the launch) 1) Keep updating the results from the DB.

