


Clean architecture android simple example

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TL;DRPractically impossible to summarize the MVP pattern here in a few lines. But I can assure you that every line of the next article is worth your time. I bet this will give you enough insight into what you can implement it on your own. And yet, if you're in a hurry I'd like to suggest jumping on how does MVP work? Section. The source code of the example. Whenever any Android developer starts thinking about improving technical skills, the first thing that comes to his mind is the architecture of the app. Not to mention that they already know the pain associated with maintaining a standard code base after it grows. I did the same and learned about architecture, and then decided to focus on MVP. After trying it out with test projects and then production applications, I moved to learn the Kotlin language and now the latest architecture components. But during this transition, I realized that there are very few to anyone; examples demonstrating the implementation of these concepts in Kotlin. So here I am with these examples showing the implementation of some architectural patterns in Kotlin. I promise you that these examples will be so simple that you can understand the essence of these concepts with ease. In this series, I'm going to aim at two main architectural templates: The View-Presenter and Android Architecture Components.1. Android App Architecture: MVP Example with Kotlin (I)2. Android Architecture Components Example with Kotlin3. Components of Android architecture: AdvancementsModel-View-Presenter (MVP) with KotlinWhile designing the architecture of any software the basic principle to keep in mind is the division into problems. THE MVP is one of the best templates for separating the presentation layer from business logic. In addition, MVP will also help you easily implement more advanced, complete architectural templates such as Clean Architecture.Here I'm not going to answer questions like WHAT and WHY, but how. How do I use an MVP? How does it work? and how to implement it with Kotlin? So in this first article we'll see the implementation of the MVP using Kotlin.ViewWho: A combination of activity/fragment/view and its contract i.e. interface. Purpose: Do all the things related to the user interface and all that needs in the context of Android. Job: Whenever it has to do some action, it should trigger the appropriate function of the speaker using the object. It should not have any business logic. Although the XML layout is part of the view, it's not just called View. All necessary features are added to our activities/snippet/view through the contract/interface. Adapters are also part of the view. Activity/Fragment/View directly initiates the presenter, including the model indirectly, as the presenter initiates the model in his designer. Case Model:- Show Hide the progress bar. - Request data to be shown and then show the data/error. - Get LayoutInflater, Resources, Android System Services.PresenterWho: This is a separate class that should not be The context of Android. Purpose: Act as an intermediary between the two main layers of View architecture and Model.Job: Trigger the corresponding model function depending on the View request.Presenter has viewing objects and models. It should not have any business logic. In addition, it should not have direct access to any elements of the user interface. ModelWho: Database, models (scheme), API calls and all other business logic are part of this layer. All business logic will be located here. Purpose: Separate business logic so we can test it in isolation without View. It also helps us reuse the code base across different platforms. Task: Get/calculate data or errors shown on the user interface. Here we have to do APIs, database calls, and other calculations. But to make it more durable, we can add another layer inside The Model:Repository: Decides the source of the data to be shown depending on the predetermined conditions. This means that it will receive data from offline or online sources depending on conditions such as network availability. (To make it simple, the app on doesn't have a repository layer.) Thus, our model will receive data that will be shown regardless of the network conditions. I recently published an article about Coroutines, check-how does the MVP work? In brief words: View the speaker's call functions, presenter transmits his model, the model asks for data to view. Once the model receives the data, it hands it over to the presenter, and the presenter hands it over to View, where View shows the data on the screen. Direct Communication: View No zgt; Presenter No zgt; ModelIndirect Communication via Contract/Interface: Model No./No/ViewHere is a simple chart workflow MVP in Android. I ask everyone to spend a few minutes with the following illustration, it will help you understand a lot of MVP in Android. Note: The model is called Interactor.I hope I was clear enough to make this clear. Here's the full source of the example. Thanks for reading! Rohit Surwaself you liked the article, clap cotton 🍌🍌 as many times as you can. ENJOYED IT SO MUCH! The average allows up to 50 claps. Also, after tweeting on Twitter.Let's be friends on LinkedIn, Medium, Twitter and GitHub.Also, check out a few other stories posted by me: Sign up to get a daily overtaking of top tech history! Android: If you have little space on your Android device, Clean Master makes it easy to determine what's hogging your storage, and help you get rid of it. Once you open Clean Master, you'll get a few graphs showing the space used and unused on the device's onboard storage and SD card, but most of the action in the App History section. Here you'll see the cache size of all installed applications that you can remove selectively or with the automated Net option, which gets rid of most caches but saves important ones. Another tab shows you the residual residual staying away from the apps you've deleted, and lets you trash them with a single tap. Pure Master also comes with killer tasks, but as we mentioned earlier, you don't have to use it. Pure Master is free, so check it out if you're bumping into your storage limits. If you have the same problem on your computer or Mac, be sure to give WinDirStat or Drive Inventory X a look. Android task killers improve the performance of the phone, as well as increase battery life, or at least ... READ MOREClean Master (free) Google Play via MakeUseOf Photo: Florence IonWe take our phones everywhere, so it's inevitable that they will eventually feel the brunt of the life we live. And just as we got into the shower first thing after a long camping weekend, our smartphones also need deep cleaning once in a while. No matter what life throws at you-soda, dirt, or some unrecognizable type of glue- there is a way to safely remove it from your smartphone without shortening the lifespan of your device. Here's a look at some of the most common smartphone messes and how to clean them, from taking a gunk out of your charging port to getting dirt from the fabric case. Problem: Gunk's charging portDo act with care as you clean up your charging port. Photo: Florence IonWireless charging is not yet the de facto standard for smartphones, so until then, we'll have to contend with dirty charging ports. Lint, dust and other debris that lives in our pockets and bags can be collected in the charging ports of our devices over time. This may even explain why your phone doesn't always start charging when you connect. You're going to want to take a toothpick and get to work. I like to use plastic toothpicks because traditional woodens tend to divide quite easily. You can even use a SIM ejection tool if you have one lying around, or the back of a plastic spudger. When you are ready, shine a bright light on the charging area and carefully insert the toothpick. Start digging up what's out there, making soft scoop movements along the outer edges of the port. Be strict though not too aggressive to damage the port. Use scooping motions to dig up dust and other debris collected in your charging port. Gif: Florence IonThis works for both Apple Lightning ports and Android USB-C ports. If the device is a little older and it's a sporty microUSB, try spraying compressed air in the area before trying to dig into the toothpick. And if you decide what you're going into, be gentle because the protruding connectors inside are easy to bend. Problem: Dust in the dynamics of grillStereo speakers are a welcome addition to smartphones, although it also means that the devices are a bit porous than they were before. Before hacking into the speaker grill with a sewing needle or INSTRUMENT ejection SIM, try blasting can of compressed air into the hole to make that's stopping him. If it doesn't work, it means that you are working with more difficult material. Very carefully, use a needle or SIM tool to remove anything stuck there with the same traffic up the sides as you used to clean up the charging port. The problem: The leftovers of the food on the screenAll what you really need is a little soap and water to get food from your phone. Photo: Florence IonI take my smartphone with me to eat because staring into the void when you're alone in restaurants seems to creep people. It's amazing what can end up on your phone after just one meal. Whether it's a speck of marinara sauce or a few drops of olive oil, quickly stain the area with a napkin to keep what has spilled from spreading and then destroy it to get excess. You will have to do deep cleaning when you are at home or near the sink. Place a little dish soap on a clean towel or cloth napkin, then rub it together under the faucet to create some foam. Don't get it soaking, but get enough out there that you can wipe your phone clean. Soap and water are safe to use in small quantities, especially on waterproof devices. Wipe your phone to get rid of excess fat from your food and then dry it as you would if you washed your hands. Don't forget to sanitize your phone after that. Hold a bottle of spray of half and a half mixture of white vinegar and distilled water to use in cases such as this, then wipe the device with a sheet of microfiber tissue. Or, if you prefer to buy something, stick to an alcohol and ammonia cleaner like Koala Kleaner. If you often find yourself in this kind of food on your phone's predicament, consider investing in packages of individually wrapped wipes devices to keep on you if necessary. Amazon has many varieties, and Sephora packs them real cute for people who want to feel fancy about cleaning their phones. Problem: Unidentified stickinessLip glitter stuck on screen? It's easy to clean. Photo: Florence IonThere had several times when I removed my smartphone from my business only to find there is some sticky, sticky residue that set up shop on the back of the device. In most cases, rubbing it with your thumb can help remove everything it is. You can also try rubbing the surface with a wet soap cloth to help soften it. If your fingers don't get the job done, try a plastic spudger or edge credit card to scrape off the surface without scratching your phone. In some cases, you can try rubbing a th-tip or cotton ball soaked in nail polish removal on the square before scraping it off. Be Doing this though, because acetone-based removal can be harsh on the painted exterior of some phones. I would only recommend this last step for heavy jobs like removing sticker residue. Problem: Makeup all over screenFace fat? Spray it. Gif: Gif: IonIt is nice to catch up with old friends who are still willing to talk on the phone, but it's also like skin oils and creamy makeup end up on our screens. If I'm home, I'll take my bottle of ammonia and non-alcoholic koala spray, then wipe the phone with a microfiber cloth. If I'm having a microfiber fabric handy or one of the aforementioned individually wrapped wipes the device can help make the phone feel clean again. Some have suggested investing in an oleophobic screen protector to help curb the attraction of fat and fingerprints, but it is clear that the person did not wear a full foundation cover on a hot summer day. For best results, switch to video calls and stop putting your phone face to face. Problem: Phone case dirty fabricboth and plastic phone case can be cleaned with a little soap and water. Photo: Florence IonWhether you work with an inexpensive plastic phone case or intricately designed fabric one, you can extend your life by cleaning it every so often. If your plastic case looks dull, try soaking it in a bath with warm water and a soap dish and then cleaning it with a toothbrush. The brush will help to soften what is baked there. If the case is stained with ink or dried food, try wiping it down with a towel sprayed with a bit of an all-purpose cleaner method. In both cases, be sure to wipe off the case and let it dry before placing your smartphone back inside. If none of these methods works, you can also try rubbing in the area with a cotton swab soaked in 70 percent or higher friction alcohol. A toothbrush can help remove stubborn stains on tissue cases. Gif: Florence IonOn fabric cases, you can still use a toothbrush. Dip it in soapy water to wash the case down, or use a little baking soda to buff out the stubborn material. Be sure to spray down the case with a home or store bought disinfectant as soon as you're done. Problem: The charging cable needs a swipe downThe charger for my Pixel 3 is white, and it tends to picking on dust, dirt and soot from my travels and hikes. A little warm soapy water on a clean towel is usually enough to get it wiped. Be careful not to dunk the cable, however. In the case of tougher marks, try a little cleaner method on the rag trick. Trick.

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