Photo reminder app (Widget Demo)-16.4.24

**How to create an app widget with multiple icons in Android:**

<https://reintech.io/blog/kotlin-widgets-building-home-screen-widget-android-app>

<https://developer.android.com/develop/ui/views/appwidgets>

**Button click event from the app widget :**

<https://stackoverflow.com/questions/14798073/button-click-event-for-android-widget>

**How to send data from the AppWidgetProvider class to Main Activity :**

Ans – By using Shared Preferences.

**Gmail login :**

[youngbrainz.gauravr@gmail.com](mailto:youngbrainz.gauravr@gmail.com)

password – gaurav@1234

**GitLab login :**

Email : [youngbrainz.gauravr@gmail.com](mailto:youngbrainz.gauravr@gmail.com)

Phone : 9978707079

Login done by OTP on above phone.

project\_token\_gaurav

GitLab login email - [youngbrainz.gauravr@gmail.com](mailto:youngbrainz.gauravr@gmail.com)

Username - youngbrainz.gauravr

Password – gkr.2910

**To clone the repository in your PC :**

* Copy the HTTPS Url from GitLab->Code, and type git clone + copy Url in GitBash command line.

git clone <https://gitlab.com/youngbrainz1/ringapp/ringappandroid.git>

access token for SSH key - glpat-xs3VWexT44sZyws8soSU

SSH key(saved in Gaurav->RingApp->Code->123456.pub) -

ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQDPdj1f6kRy4FZx5WlcMvz7AJ9X4yb2206+ZBL7GVFq1IeF7EcHDWab0Lc29yGOVPgFk8i023o+rhtGEDfRjyh+qS742ggIFdOrAqdWRr9lP7HTEUeNyRxBgNhc8YgZxOmVxS5pv/HMkCw7LQ/S7EufLlLmCRJboi2fa69kIqG8ODEtvBmvjcN7GJrtVNWrVw6ms4lE3iiQb+cvgIflUJc0ppT0/P5SePrPbWnwTahhx6zDRPXjrO8rWa6yE5jqq5mUjZOYrpUnRKvMEQ8CJSKd9a7/C5h+QYDRNLFY41d6VRGqS/X+pmaO505Sy2mntgsxeQoVQEpFTbjHWZzqyKbB

**To change color of PNG icon online :**

<https://onlinepngtools.com/change-png-color#tool>

**To make custom alert dialog :**

<https://www.geeksforgeeks.org/how-to-create-a-custom-alertdialog-in-android/>

**To resources.updateConfiguration is depricated :**

<https://stackoverflow.com/questions/4985805/set-locale-programmatically/47223492#47223492>

* Try answer of Burak Dizlek on 31 oct 2019.

Dentist App-7.5.24

**Pagination links**

<https://stackoverflow.com/questions/66156640/recyclerview-addonscrolllistener-retrofit-pagination-with-mvvm-is-loading-th> - Pagination in Question in this link is used in Patient List screen with some modification.

<https://dev.to/mohitrajput987/recyclerview-pagination-scroll-listener-in-android-69a>

<https://www.geeksforgeeks.org/how-to-implement-pagination-in-android-recyclerview-using-volley/>

**What files should be added in .gitignore file in android studio project :**

[**https://stackoverflow.com/questions/16736856/what-should-be-in-my-gitignore-for-an-android-studio-project**](https://stackoverflow.com/questions/16736856/what-should-be-in-my-gitignore-for-an-android-studio-project)

**Answer of 26 Mar-24 in above link.**

**How to make rounded corner modal bottom sheet (BookAppointmentFragment.kt) :**

- <https://github.com/material-components/material-components-android/blob/master/docs/components/BottomSheet.md>

- Make xml file of bottom sheet layout (we can use ConstraintLayout instead of CoordinatorLayout and Linear or other layout instead of FrameLayout in this file) , Bottom sheet dialog.kt file and Fragment code as per above link of Material3 document.

- Write FrameLayout height in bottom sheet layout as per yout reqquirement.

- Then write the theme related code as per below video link :

- <https://www.youtube.com/watch?v=44oZPIctNMo>

**Search functionality with dropdown menu(spinner) :**

<https://www.geeksforgeeks.org/how-to-implement-custom-searchable-spinner-in-android/>

**How to make spinner type time picker dialog :**

<https://medium.com/@yottafactory/android-timepicker-timepicker-dialog-spinner-clock-mode-b92ad4c4cb5c>

**Convert json to kotlin data class object :**

<https://medium.com/nerd-for-tech/using-google-gson-to-convert-json-into-kotlin-objects-3b9f27f8454>

**Convert string date into another string date format :**

[**https://stackoverflow.com/questions/35939337/how-to-convert-date-to-a-particular-format-in-android**](https://stackoverflow.com/questions/35939337/how-to-convert-date-to-a-particular-format-in-android)

**Pass data from fragment to modal bottom sheet :**

[**https://stackoverflow.com/questions/62769643/how-to-pass-data-from-adapter-class-to-bottom-sheet-dialog-fragment**](https://stackoverflow.com/questions/62769643/how-to-pass-data-from-adapter-class-to-bottom-sheet-dialog-fragment)

**how to change background of only selected item in adapter in android**

[**https://timetoprogram.com/change-background-color-selected-item-recyclerview/**](https://timetoprogram.com/change-background-color-selected-item-recyclerview/)

**how to get time in 12 hour format in android**

[**https://beginnersbook.com/2017/10/java-display-time-in-12-hour-format-with-ampm/**](https://beginnersbook.com/2017/10/java-display-time-in-12-hour-format-with-ampm/)

**Dialog with custom layout**

[**https://www.geeksforgeeks.org/how-to-create-dialog-with-custom-layout-in-android/**](https://www.geeksforgeeks.org/how-to-create-dialog-with-custom-layout-in-android/)

**24.5.24- Last working on API call for add patient in appointment screen.**

**How to make custome alert dialog with rounded corners :**

[**https://stackoverflow.com/questions/28937106/how-to-make-custom-dialog-with-rounded-corners-in-android?rq=3**](https://stackoverflow.com/questions/28937106/how-to-make-custom-dialog-with-rounded-corners-in-android?rq=3)

**how to change height & width of custom alert dialog in android**

[**https://stackoverflow.com/questions/4406804/how-to-control-the-width-and-height-of-the-default-alert-dialog-in-android**](https://stackoverflow.com/questions/4406804/how-to-control-the-width-and-height-of-the-default-alert-dialog-in-android)

**How to get Device Information programmatically :**

[**https://www.geeksforgeeks.org/how-to-get-the-device-information-in-android/**](https://www.geeksforgeeks.org/how-to-get-the-device-information-in-android/)

**In onBindViewHolder of recycler view, view visibility visible/gone not working properly in android**

[**https://stackoverflow.com/questions/47364635/visibility-of-items-not-working-in-recyclerview**](https://stackoverflow.com/questions/47364635/visibility-of-items-not-working-in-recyclerview)

**How to make custome alert dialog with rounded corners :**

[**https://stackoverflow.com/questions/28937106/how-to-make-custom-dialog-with-rounded-corners-in-android?rq=3**](https://stackoverflow.com/questions/28937106/how-to-make-custom-dialog-with-rounded-corners-in-android?rq=3)

**how to change height & width of custom alert dialog in android**

[**https://stackoverflow.com/questions/4406804/how-to-control-the-width-and-height-of-the-default-alert-dialog-in-android**](https://stackoverflow.com/questions/4406804/how-to-control-the-width-and-height-of-the-default-alert-dialog-in-android)

9.6.24

**How to change box stroke color of Expoed Dropdown Menu in android**

- First make drawable resource file (box\_stroke\_color) as per below :

<selector xmlns:android="http://schemas.android.com/apk/res/android">  
  
 <item android:color="@color/splashbgcolor" android:state\_focused="true"/>  
 <item android:color="@color/splashbgcolor" android:state\_hovered="true"/>  
 <item android:color="@color/splashbgcolor"/>  
</selector>

- Then add following attributes in TextInputLayout in XML :

app:boxStrokeColor="@drawable/box\_stroke\_color"  
app:boxStrokeWidth="@dimen/\_1sdp"  
app:boxStrokeWidthFocused="@dimen/\_1sdp"

Aabo Ring App-24.5.24

**How to change key names of json format into required key names :**

**- Ask in ChatGPT and see the answer.**

**Done in SleepFragment.kt in -** viewModel.sleepRRListSDKTrend.observe

Dentist App

email:david@gmail.com

password:David@1234

**How to integrate any library module in android project :**

* First download the library project in your folder and then select the path of this library project.
* Then in Android Studio project open File -> New -> Import Module and paste the path.

**How to remove any library module from android project :**

* In Android Studio project open File -> Project structure -> Modules -> select Module and click on – (minus) sign to remove module. Then remove the dependency of library.

**How to change the theme, colors of material time picker :**

<https://medium.com/@aash23082001/material3-timepicker-a-guide-to-stylish-customization-in-android-06ea70c97136>

2.7.24- Last working in AppointmentList screen. Filter with Pagination is done. Search functionality with pagination is pending.

Aabo Ring App (ECG)

Wifi – Airtel\_jign\_5155

Password - air21174 or 75

Wifi- Airtel\_YOUNGBRAINZ

Password- YB@wifi@701

Graddle error during sdk integration :

<https://stackoverflow.com/questions/77759392/plugin-id-com-android-application-version-8-2-1-apply-false-was-not-f>

MAC address of ECG ring :

app.accountSp.edit()  
 .putString(  
 *SP\_KEY\_BOUND\_DEVICE\_ADDRESS*,  
 "DC:E2:6A:DA:27:90"  
 ).apply()

How to select multiple items from recycler view in kotlin in android

<https://droidbyme.medium.com/android-recyclerview-with-single-and-multiple-selection-5d50c0c4c739>

how to crop image from screenshot in windows

<https://scribehow.com/library/how-to-crop-a-screenshot-on-windows>

How to pass array list using navigation components :

* First add dependencies for Navigation Components and Safe Args.
* Then in nav\_graph, click on destination fragment. Add arguments- select data type as per arraylist (Int, Float, String etc). Then tick Array and click Add.
* Then pass arraylist in argument with action from first fragment with arraylist, but you have to convert arraylist like arraylist.toFloatArray().
* Then in second fragment receive as per following :
* val safeArgs: EndEcgFragmentArgs by *navArgs*()
* val arrayList = safeArgs.ecgArrayList.*toList*() as ArrayList

Technology Session Sheet Link :

https://docs.google.com/spreadsheets/d/1lOjCt85oAvVIDtTSinmbo2kHwShboX9pjzU5GnM\_OLQ/edit#gid=0 **Below error occurred when converting JsonObject response to ModelClass in ECGList fragment :**

Error - java.lang.RuntimeException: Unable to invoke no-args constructor for class com.aabo.aaboring.ui.home.dashboard.ecgDetails.ECGRecordsModel. Registering an InstanceCreator with Gson for this type may fix this problem.

Solution – First answer in below link to use @Keep annotation in data class :

<https://stackoverflow.com/questions/76109452/unable-to-invoke-no-args-constructor-for-class-registering-an-instancecreator-w>

**Pass data (multiple arguments) in Navigation Components : (ECGListAdapter)**

<https://stackoverflow.com/questions/59540977/passing-multiple-agument-to-fragment-using-typesafe-in-navigation>

**How to pass model class type ArrayList from fragment to activity in android :**

* convert attaylist in jsonString by Gson().toJson(ArrayList<EcgResult>) and pass it in intent by

intent.putExtra().

* then receive by following code in activity
* val gson = GsonBuilder().create()  
  ecgResultArray= gson.fromJson(*intent*.getStringExtra("ecgResultArray"), Array<EcgResult>::class.*java*).*toList*() as ArrayList

**QA Testing sheet link :**

<https://docs.google.com/spreadsheets/d/169kcH_VIjfnb09z-uKYYTrJ9zQwnJle93LXCGWJIj0I/edit?gid=1639683242#gid=1639683242>

**CPU interchange- 20.8.2024 :**

* **Patil’s CPU is taken. No RAM in Patil’s CPU. My RAM and Harddisk is inserted in Patil CPU. And made in use for me.**
* **Patil harddisk is inserted into my CPU and left as extra.**
* **Google Sign In in Android :**
* [**https://developer.android.com/identity/sign-in/credential-manager-siwg**](https://developer.android.com/identity/sign-in/credential-manager-siwg)
* [**https://medium.com/@nirmale.ashwin9696/a-comprehensive-guide-to-google-sign-in-integration-with-credential-manager-in-android-apps-05286f8f5848**](https://medium.com/@nirmale.ashwin9696/a-comprehensive-guide-to-google-sign-in-integration-with-credential-manager-in-android-apps-05286f8f5848)

**Facebook login in Android**

* <https://developers.facebook.com/docs/facebook-login/android/>
* <https://developers.facebook.com/docs/android/getting-started>
* To get the user info by facebook login:
* <https://stackoverflow.com/questions/50509753/how-to-get-facebook-user-profile-id-name-email-and-picture-and-use-in-other-ac>
* <https://stackoverflow.com/questions/29295987/android-facebook-4-0-sdk-how-to-get-email-date-of-birth-and-gender-of-user>
* <https://stackoverflow.com/questions/14194119/how-to-get-user-profile-information-from-facebook-api-android>

**How to get SHA-1 and SHA-256 keys from Android Studio :**

* **Second answer of Rahul Kushwah in below link :**

<https://stackoverflow.com/questions/27609442/how-to-get-the-sha-1-fingerprint-certificate-in-android-studio-for-debug-mode>

Google console :

<https://console.cloud.google.com/apis/credentials?organizationId=0&project=warm-physics-433210-e7>

Glam9

**GeneralCodeProject-till-29.8.24 :**

**Glam9 – Figma design link :**

[**https://www.figma.com/design/5lSmzpHx9ADDYEonkkrfpM/Glam9?node-id=138-2&node-type=canvas**](https://www.figma.com/design/5lSmzpHx9ADDYEonkkrfpM/Glam9?node-id=138-2&node-type=canvas)

* **Total 17 screen designs done in 4.5 days. Last screen was CustomerDetailScreen.**

Glam9- Customer

To Gemini- Give me the code in kotlin to slide arraylist of images horizontally in recycler view on button click in android- SalonDetailFragment

// Handle button clicks to slide the images

nextButton.setOnClickListener {

val currentPosition = recyclerView.layoutManager?.findFirstVisibleItemPosition() ?: 0

if (currentPosition < imageList.size - 1) {

recyclerView.smoothScrollToPosition(currentPosition + 1)

}

}

prevButton.setOnClickListener {

val currentPosition = recyclerView.layoutManager?.findFirstVisibleItemPosition() ?: 0

if (currentPosition > 0) {

recyclerView.smoothScrollToPosition(currentPosition - 1)

}

}

**How to open modal bottom sheet dialog**

* As per MaterialComponents library.

**How to make modal bottom sheet dialog full screen :( Select Professional Fragment)**

<https://stackoverflow.com/questions/68020818/how-to-make-bottomsheetdialog-full-screen>

**How to transfer data from modal bottom sheet dialog to its parent fragment(SelectProfessionalFragment)**

* Make one interface and pass object of that interface in bottomSheetFragment constructor(as we pass in Adapter of Recycler view).
* Call the required method of Interface from bottom sheet.
* Implement interface in parent fragment and pass “this” in Bottom sheet constructor when we open bottom sheet.
* Override the required method in parent fragment and get the data.

**How to navigate from modal bottom sheet dialog to other fragment(not parent fragment) (SelectProfessionalFragment)**

* Define interface as per above and implement method in parent fragment. In this method, navigate to other fragment.
* We can not directly navigate from bottom sheet to other fragment.

**Single item selection in recycler view logic in onHeadingCategoryItemClick method (SalonDetailActivity- Customer App- Befire API calling)**

* **In ModelClass**- take var isSelected = false.
* **Activity code :**
* override fun onHeadingCategoryItemClick(position: Int, item: ServiceHeadingCategoryModel) {  
   for (i in 0 *until* serviceCategoryList.size) {  
   if (i == position) {  
   serviceCategoryList[i].isSelected = true  
   } else {  
   serviceCategoryList[i].isSelected = false  
   }  
   }  
   serviceCategoryAdapter.notifyDataSetChanged()  
  }

**Adapter Code :**

inner class ItemViewHolder(private val binding: ItemHeadingServicesBinding) :  
 RecyclerView.ViewHolder(binding.*root*) {  
 fun bind(item: ServiceHeadingCategoryModel) {  
 binding.tvCategoryName.*text* = item.categoryName  
  
 if (item.isSelected) {  
 binding.clMain.setBackgroundResource(R.drawable.*bg\_button*)  
 binding.tvCategoryName.setTextColor(ContextCompat.getColor(itemView.*context*, R.color.*white*))  
 } else {  
 binding.clMain.setBackgroundColor(ContextCompat.getColor(itemView.*context*, R.color.*white*))  
 binding.tvCategoryName.setTextColor(ContextCompat.getColor(itemView.*context*, R.color.*black\_transparent*))  
 }  
  
 itemView.setOnClickListener **{** listener.onHeadingCategoryItemClick(*absoluteAdapterPosition*, item)  
 **}** }  
}

**Multiple item selection in recycler view logic in onServiceDetailClick method: (Vendor App- business/WhatsYourBusinessActivity.kt)**

* **In ModelClass**- take var isChecked = false.
* **Activity Code**

override fun onBreakItemClick(position: Int, onClickType: Int) {  
 businessCategoryData[position].isChecked = !businessCategoryData[position].isChecked  
 businessCategoryAdapter.notifyDataSetChanged()  
  
 *loge*("WhatsYourBusinessActivity", "updatedList==${Gson().toJson(businessCategoryData)}")  
}

* **Adapter code :**

fun bind(item: BusinessCategoryData, holder: ItemViewHolder) {  
 binding.tvBusinessCategory.*text* = item.name  
 holder.itemView.*apply* **{** item.logo\_link?.*let* **{** Glide.with(this).load(item.logo\_link).into(binding.ivBusinessCategory)  
 **}  
 }** //binding.ivBusinessCategory.setImageResource(R.drawable.img\_skin\_care)  
  
 if (item.isChecked) {  
 binding.ivSelected.*visibility* = View.*VISIBLE* } else {  
 binding.ivSelected.*visibility* = View.*GONE* }  
 binding.*root*.setOnClickListener **{** itemOnClickListener.onBreakItemClick(*absoluteAdapterPosition*,1)  
 **}**}

**Generic Interface :**

interface DataManager<T> {  
 fun getItems(): List<T>  
 fun saveItem(item: T)  
}

// Implementation example  
class UserDataManager : DataManager<User> {   
 // Implement methods using User type  
}

Other link –

<https://stackoverflow.com/questions/71355956/how-to-write-generic-functions-in-kotlin-interfacess-implementations>

**API calling practice using MVVM+Coroutines+Retrofit- 5.10.24**

Below link is followed for this sample project

<https://medium.com/android-beginners/mvvm-with-kotlin-coroutines-and-retrofit-example-d3f5f3b09050>

Sample APIs from Postman :

<https://www.postman.com/cs-demo/public-rest-apis/collection/tfzpqfc/public-rest-apis>

Difference between Call and Response in Retrofit :

<https://stackoverflow.com/questions/64124670/call-or-response-in-retrofit>

Difference between Response and Direct Result Handling (Model class response) in Retrofit :

<https://medium.com/@muhammadmohsinshafqat/making-the-right-choice-response-vs-direct-result-handling-in-retrofit-961820500cad>

Recycler view with multiple view types :

<https://blog.mindorks.com/recyclerview-multiple-view-types-in-android/> - 2 ViewHolders

<https://www.digitalocean.com/community/tutorials/android-recyclerview-example> - 3 ViewHolders

<https://stackoverflow.com/questions/66420509/android-studio-kotlin-recyclerview-with-multiple-viewtypes-with-different-data>

**Room with Coroutines :**

<https://mrappbuilder.medium.com/implementing-room-databases-with-kotlin-coroutines-in-android-e1b5e11e1578>

Sample project is made using above link for Room with Coroutines.

Things to consider Room with Coroutines (in above project) in Android Studio Jellyfish.

* Add following things in app level build.gradle file :
* Add id (“kotlin-kapt”) in Plugins { } at top side.
* Add kapt("androidx.room:room-compiler:$room\_version") and

implementation("androidx.room:room-ktx:$room\_version")

in dependencies section.

* In Entity class,
* Define primary key as follows:
* @PrimaryKey(autoGenerate = true)  
  val collegeId: Long?
* And while inserting data, enter primary key as null, so it will auto increament the id.
* val college = CollegeEntity(null, collegeName, degreeName, city)