Министерство образования и молодежной политики Свердловской области



ГАПОУ СО «Екатеринбургский колледж транспортного строительства»

Отчёт по программе «**Приложение – умные часы**»

Выполнил: Максимов К.Э.

Группа: ПР-31

Преподаватель: Мирошниченко Г.В

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**Входные данные:**

nameArtist(Strung) – название исполнителя

**Выходные данные:**

**recyclerView –** список исполнителей

**Toast – сообщение  
AlertDialog - сообщение**

**Листинг программы:**

package com.example.pract2\_2  
  
import android.app.Activity  
import android.os.Bundle  
import android.util.Log  
import android.view.View  
import android.widget.Button  
import android.widget.EditText  
import android.widget.TextView  
import android.widget.Toast  
  
import androidx.room.Room  
import com.android.volley.toolbox.StringRequest  
import com.android.volley.toolbox.Volley  
import com.example.pract2\_2.databinding.ActivityAddBinding  
  
import kotlinx.coroutines.\*  
  
import org.json.JSONException  
import org.json.JSONObject  
  
class AddActivity : Activity() {  
 private lateinit var binding: ActivityAddBinding  
 private lateinit var nameArtist:EditText  
 private lateinit var titleArtist:TextView  
 private lateinit var singer:TextView  
 private lateinit var add:Button  
 private lateinit var database: PlaylistDatabase  
  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
  
 binding = ActivityAddBinding.inflate(*layoutInflater*)  
 setContentView(binding.*root*)  
  
 nameArtist = findViewById(R.id.*nameArtist*)  
 titleArtist = findViewById(R.id.*titleArtist*)  
 singer = findViewById(R.id.*Singer*)  
 add = findViewById(R.id.*add*)  
 }  
 fun newplaylist(view: View) {  
 database = Room.databaseBuilder(  
 *applicationContext*,  
 PlaylistDatabase::class.*java*,"playlist-database"  
 ).build()  
 val nameArtist = nameArtist.*text*.toString()  
 if(nameArtist.*isNotBlank*()) {  
  
 searchArtistId(nameArtist) { id ->  
 getResualt(id)  
 }  
 }  
 else {  
 Toast.makeText(this, "Проверьте ввод данных", Toast.*LENGTH\_SHORT*).show()  
 }  
 }  
  
 fun searchArtistId(artistName: String, callback: (String) -> Unit) {  
 val apiKey = "VbokmShmIcueAGWMQNxFTIwylPfNdEVDHnsqxZWW"  
 val searchUrl = "https://api.discogs.com/database/search?q=$artistName&type=artist&token=$apiKey"  
  
 val queue = Volley.newRequestQueue(this)  
  
 val stringRequest = StringRequest(  
 com.android.volley.Request.*Method*.*GET*, searchUrl,  
 { response ->  
 try {  
 val jsonObject = JSONObject(response)  
 val resultsArray = jsonObject.getJSONArray("results")  
  
 if (resultsArray.length() > 0) {  
 val artistInfo = resultsArray.getJSONObject(0)  
 val artistId = artistInfo.optInt("id")  
 callback(artistId.toString())  
 } else {  
 callback("")  
 }  
 } catch (e: JSONException) {  
 Toast.makeText(this,"Ошибка при загрузке данных",Toast.*LENGTH\_SHORT*).show()  
 callback("")  
  
 }  
 },  
 {  
 callback("")  
 })  
  
 queue.add(stringRequest)  
 }  
  
  
 fun getResualt(idArtist: String) {  
 if (idArtist.*isEmpty*()) {  
 Toast.makeText(this,"Ошибка при загрузке данных",Toast.*LENGTH\_SHORT*).show()  
  
 } else {  
  
 val url = "https://api.discogs.com/artists/$idArtist?callback=Nirvana"  
 val queue = Volley.newRequestQueue(this)  
  
 val stringRequest = StringRequest(  
 com.android.volley.Request.*Method*.*GET*, url,  
 { response ->  
 val jsonpData =  
 response.*substring*(response.*indexOf*("(") + 1, response.*lastIndexOf*(")"))  
 try {  
 val jsonObject = JSONObject(jsonpData)  
 val artistData = jsonObject.getJSONObject("data")  
 val name = artistData.getString("name")  
 val profile = artistData.getString("profile")  
  
 var data = Playlist(name = name, singer = profile)  
 GlobalScope.*launch* (Dispatchers.IO) {  
 database.playlistDao().insertPlaylist(data)  
 }  
  
 titleArtist.*text* = name  
 singer.*text* = profile  
  
 } catch (e: JSONException) {  
 Toast.makeText(this,"Ошибка при загрузке данных",Toast.*LENGTH\_SHORT*).show()  
 }  
 },  
 {  
 })  
  
 queue.add(stringRequest)  
 }  
 }  
}

package com.example.pract2\_2  
  
import android.app.Activity  
import android.app.AlertDialog  
import android.content.DialogInterface  
import android.os.Bundle  
import android.view.View  
import android.widget.Button  
import android.widget.EditText  
import android.widget.LinearLayout  
import android.widget.Toast  
import androidx.core.content.ContentProviderCompat.requireContext  
import androidx.recyclerview.widget.LinearLayoutManager  
import androidx.recyclerview.widget.RecyclerView  
import androidx.room.Room  
import androidx.room.RoomDatabase  
import com.example.pract2\_2.databinding.ActivityHistoryListBinding  
import com.google.android.material.snackbar.Snackbar  
import kotlinx.coroutines.Dispatchers  
import kotlinx.coroutines.GlobalScope  
import kotlinx.coroutines.launch  
import kotlinx.coroutines.withContext  
  
class HistoryList : Activity() {  
  
 private lateinit var binding: ActivityHistoryListBinding  
 private lateinit var dobavit:Button  
 private lateinit var udalit:Button  
 private lateinit var list:RecyclerView  
 private lateinit var database:PlaylistDatabase  
 private lateinit var adapter: PlaylistAdapter  
  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 binding = ActivityHistoryListBinding.inflate(layoutInflater)  
 setContentView(binding.root)  
 database = Room.databaseBuilder(  
 applicationContext,  
 PlaylistDatabase::class.java,"playlist-database"  
 )  
 .build()  
  
 list = findViewById(R.id.list)  
 dobavit = findViewById(R.id.dob)  
 udalit = findViewById(R.id.udal)  
 list.layoutManager = LinearLayoutManager(this)  
 adapter = PlaylistAdapter()  
 list.adapter = adapter  
  
 GlobalScope.launch (Dispatchers.IO) {  
 val data = database.playlistDao().getRecentPlaylist()  
 withContext(Dispatchers.Main){  
 adapter.submitList(data)  
 }  
 }  
 adapter.setOnDeleteClickListener { playlist ->  
 GlobalScope.launch (Dispatchers.IO) {  
 database.playlistDao().deletePlaylist(playlist)  
  
 val data = database.playlistDao().getRecentPlaylist()  
 withContext(Dispatchers.Main){  
 adapter.submitList(data)  
 }  
 }  
 }  
 adapter.setOnEditClickListener { playlist -> EditMenu(playlist) }  
 }  
 private fun EditMenu(playlist:Playlist)  
 {  
 val mes = AlertDialog.Builder(this)  
 val lay = LinearLayout(this)  
  
 lay.orientation = LinearLayout.VERTICAL  
 val name = playlist.name  
 val singer = playlist.singer  
 mes.setTitle("Редактор")  
 val ed1 = EditText(this)  
 val ed2 = EditText(this)  
 ed1.hint = "Имя артиста"  
 ed2.hint = "Описание"  
 ed1.setText("${name}")  
 ed2.setText("${singer}")  
 lay.addView(ed1)  
 lay.addView(ed2)  
 mes.setView(lay)  
 mes.setPositiveButton("Сохранить") {\_,\_ ->  
 val newname = ed1.text.toString()  
 val newsinger = ed2.text.toString()  
 if(newname.isEmpty() || newsinger.isEmpty() )  
 {  
 val alertDialog1 = AlertDialog.Builder(this)  
 alertDialog1.setTitle("Ошибка")  
 alertDialog1.setMessage("Заполните все поля")  
 alertDialog1.setPositiveButton("ОК") {\_,\_ ->  
 showAddDialog()  
 }  
 val alertDialog2 = alertDialog1.create()  
 alertDialog2.show()  
 }  
 else  
 {  
 val update = playlist.copy(name = newname, singer = newsinger)  
 GlobalScope.launch(Dispatchers.IO) {  
 database.playlistDao().updatePlayslists(update)  
 val data = database.playlistDao().getRecentPlaylist()  
 withContext(Dispatchers.Main) {  
 adapter.submitList(data)  
 }  
 }  
 }  
 }  
 mes.setNegativeButton("Нет", DialogInterface.OnClickListener{ dialog, which->  
 Toast.makeText(this,"Окс", Toast.LENGTH\_LONG).show()  
 })  
 mes.show()  
  
 }  
  
 fun dobavit(view: View) {  
 showAddDialog()  
  
 }  
 private fun showAddDialog(){  
 val alertDialog = AlertDialog.Builder(this)  
 alertDialog.setTitle("Добавление")  
 val input = LinearLayout(this)  
 input.orientation = LinearLayout.VERTICAL  
 val nameEdit = EditText(this)  
 nameEdit.hint = "Название"  
 val singerEdit = EditText(this)  
 singerEdit.hint = "Описание"  
  
 input.addView(nameEdit)  
 input.addView(singerEdit)  
 alertDialog.setView(input)  
  
 alertDialog.setPositiveButton("Добавить") {\_,\_ ->  
 val nameSt = nameEdit.text.toString()  
 val singerSt = singerEdit.text.toString()  
  
 if(nameSt.isNotBlank() || singerSt.isNotBlank())  
 {  
 val newString = Playlist(name = nameSt, singer = singerSt)  
 GlobalScope.launch(Dispatchers.IO) {  
 database.playlistDao().insertPlaylist(newString)  
 val playlists = database.playlistDao().getRecentPlaylist()  
 withContext(Dispatchers.Main) {  
 adapter.submitList(playlists)  
 }  
 }  
 }  
 else  
 {  
 val alertDialog1 = AlertDialog.Builder(this)  
 alertDialog1.setTitle("Ошибка")  
 alertDialog1.setMessage("Заполните все поля")  
 alertDialog1.setPositiveButton("ОК") {\_,\_ ->  
 showAddDialog()  
 }  
 val alertDialog2 = alertDialog1.create()  
 alertDialog2.show()  
 }  
 }  
 alertDialog.setNegativeButton("Отмена") {dialog, \_ ->  
 dialog.dismiss()  
 }  
 val alertDialog2 = alertDialog.create()  
 alertDialog2.show()  
  
 }  
 fun udalit(view: View) {  
 val mes = AlertDialog.Builder(this)  
 mes.setTitle("Вопрос")  
 mes.setMessage("Вы хотите удалить все данные?")  
 mes.setPositiveButton("YES OF COURSE", DialogInterface.OnClickListener { dialog, which->  
 GlobalScope.launch (Dispatchers.Main) {  
 database.playlistDao().deleteAllPlayslists()  
  
 val data = database.playlistDao().getRecentPlaylist()  
 withContext(Dispatchers.Main)  
 {  
 adapter.submitList(data)  
 }  
 }  
 })  
 mes.setNegativeButton("Не надо", DialogInterface.OnClickListener{ dialog, which->  
 Snackbar.make(view,"Окс",Snackbar.LENGTH\_LONG)  
 .show()  
 })  
 mes.show()  
 }  
}

package com.example.pract2\_2  
  
import android.app.Activity  
import android.content.Intent  
import android.content.SharedPreferences  
import android.os.Bundle  
import android.view.View  
import android.widget.EditText  
import android.widget.Toast  
import com.example.pract2\_2.databinding.ActivityMainBinding  
  
class MainActivity : Activity() {  
  
 private lateinit var binding: ActivityMainBinding  
 lateinit var login: EditText  
 lateinit var password: EditText  
 lateinit var shar: SharedPreferences  
  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
  
 binding = ActivityMainBinding.inflate(layoutInflater)  
 setContentView(binding.root)  
 login = findViewById(R.id.login)  
 password = findViewById(R.id.password)  
 shar = getSharedPreferences("data", MODE\_PRIVATE)  
 var correctlogin = shar.getString("login", null)  
 var correctpassword = shar.getString("password", null)  
 if (correctlogin != null && correctpassword != null)  
 {  
 login.setText(correctlogin)  
 password.setText(correctpassword)  
 }  
 }  
  
 fun toScreen(view: View) {  
 var log = login.text.toString()  
 var pass = password.text.toString()  
 shar = getSharedPreferences("data", MODE\_PRIVATE)  
 if (log.isEmpty() || pass.isEmpty())  
 {  
 Toast.makeText(this, "Введите логин и пароль", Toast.LENGTH\_SHORT).show()  
 }  
 else if (pass.length < 5)  
 {  
 Toast.makeText(this, "Для ввода пароля минимум 5 символов", Toast.LENGTH\_SHORT).show()  
 }  
 else {  
 shar = getSharedPreferences("data", MODE\_PRIVATE)  
 var correctlogin = shar.getString("login", null)  
 var correctpassword = shar.getString("password", null)  
 if (correctlogin != null && correctpassword != null) {  
 if (correctlogin == log && correctpassword == pass) {  
 val intent = Intent(this, MainScreen::class.java)  
 startActivity(intent)  
 } else {  
 Toast.makeText(this, "Неверный логин или пароль", Toast.LENGTH\_SHORT).show()  
 }  
 } else {  
 var edit = shar.edit()  
 edit.putString("login", log)  
 edit.putString("password", pass)  
 edit.apply()  
 }  
 }  
 }  
}

package com.example.pract2\_2  
  
import android.app.Activity  
import android.content.Intent  
import android.os.Bundle  
import android.view.View  
import com.example.pract2\_2.databinding.ActivityMainScreenBinding  
  
class MainScreen : Activity() {  
  
 private lateinit var binding: ActivityMainScreenBinding  
  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
  
 binding = ActivityMainScreenBinding.inflate(layoutInflater)  
 setContentView(binding.root)  
  
 }  
  
 fun add(view: View) {  
 val intent = Intent(this,AddActivity::class.java)  
 startActivity(intent)  
 }  
 fun history(view: View) {  
 val intent = Intent(this,HistoryList::class.java)  
 startActivity(intent)  
 }  
}

package com.example.pract2\_2  
  
import android.content.*SharedPreferences*import androidx.room.Entity  
import androidx.room.PrimaryKey  
  
@Entity(tableName = "playlists")  
data class Playlist(  
 @PrimaryKey(autoGenerate = true)  
 val id: Int = 0,  
 val name: String,  
 val singer: String  
)

package com.example.pract2\_2  
  
  
import android.view.LayoutInflater  
import android.view.View  
import android.view.ViewGroup  
import android.widget.Button  
import android.widget.TextView  
import androidx.recyclerview.widget.DiffUtil  
import androidx.recyclerview.widget.ListAdapter  
import androidx.recyclerview.widget.RecyclerView  
  
  
class PlaylistAdapter: ListAdapter<Playlist, PlaylistAdapter.PlaylistViewHolder>(DiffCallback()) {  
 private var onDeleteClickListener: ((Playlist) -> Unit)? = null  
 private var onEditClickListener: ((Playlist) -> Unit)? = null  
  
 override fun onCreateViewHolder(parent: ViewGroup, viewType: Int): PlaylistViewHolder {  
 val inflater = LayoutInflater.from(parent.context)  
 val view = inflater.inflate(R.layout.item, parent, false)  
 return PlaylistViewHolder(view)  
 }  
  
 override fun onBindViewHolder(holder: PlaylistViewHolder, position: Int) {  
 val playlist = getItem(position)  
 holder.bind(playlist, onDeleteClickListener, onEditClickListener)  
  
 }  
 fun setOnDeleteClickListener(listener: (Playlist) -> Unit) {  
 onDeleteClickListener = listener  
 }  
  
 fun setOnEditClickListener(listener: (Playlist) -> Unit) {  
 onEditClickListener = listener  
 }  
 class PlaylistViewHolder(itemView: View) : RecyclerView.ViewHolder(itemView) {  
 private val info1: TextView = itemView.findViewById(R.id.title)  
 private val info2: TextView = itemView.findViewById(R.id.Singer)  
  
 private val deleteButton: Button = itemView.findViewById(R.id.delete)  
 private val redactorButton: Button = itemView.findViewById(R.id.edit)  
  
  
 fun bind(playlist: Playlist, onDeleteClickListener: ((Playlist) -> Unit)?, onEditClickListener: ((Playlist) -> Unit)?) {  
 info1.text = "${playlist.name}"  
 info2.text = "${playlist.singer}"  
  
 deleteButton.setOnClickListener {  
 onDeleteClickListener?.invoke(playlist)  
 }  
  
 redactorButton.setOnClickListener {  
 onEditClickListener?.invoke(playlist)  
 }  
 }  
 }  
  
 private class DiffCallback : DiffUtil.ItemCallback<Playlist>() {  
 override fun areItemsTheSame(oldItem: Playlist, newItem: Playlist): Boolean {  
 return oldItem.id == newItem.id  
 }  
  
 override fun areContentsTheSame(oldItem: Playlist, newItem: Playlist): Boolean {  
 return oldItem == newItem  
 }  
 }  
  
  
  
  
  
}

package com.example.pract2\_2  
  
import androidx.room.\*  
  
@Dao  
interface *PlaylistDao* {  
 @Query("SELECT \* FROM playlists")  
 suspend fun getRecentPlaylist(): *List*<Playlist> //выборка всех записей  
  
 @Insert  
 suspend fun insertPlaylist(playlist: Playlist) //вставка в базу данных  
  
 @Delete  
 suspend fun deletePlaylist(playlist: Playlist) //удаление из базы данных  
  
 @Query("DELETE FROM playlists")  
 suspend fun deleteAllPlayslists() //удаление всех записей  
  
 @Update  
 suspend fun updatePlayslists(playlist: Playlist) //обновление базы данных  
  
  
}

package com.example.pract2\_2  
  
import androidx.room.Database  
import androidx.room.RoomDatabase  
  
@Database(entities = [Playlist::class], version = 1)  
abstract class PlaylistDatabase : RoomDatabase() {  
 abstract fun playlistDao(): PlaylistDao  
}

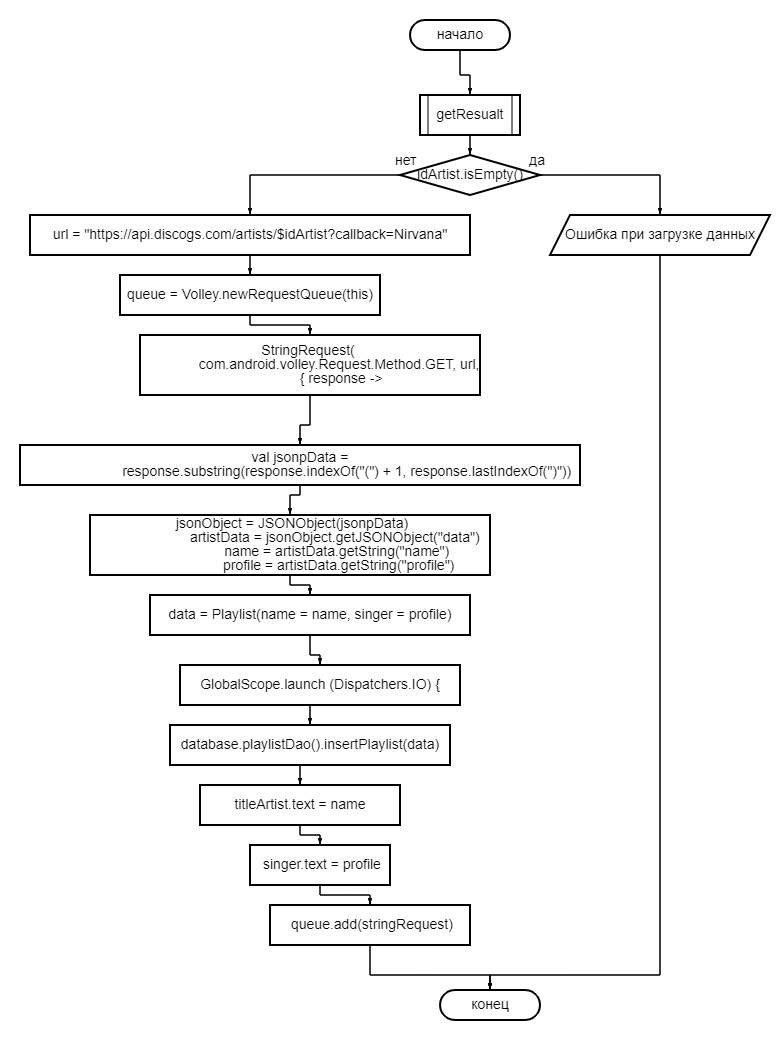
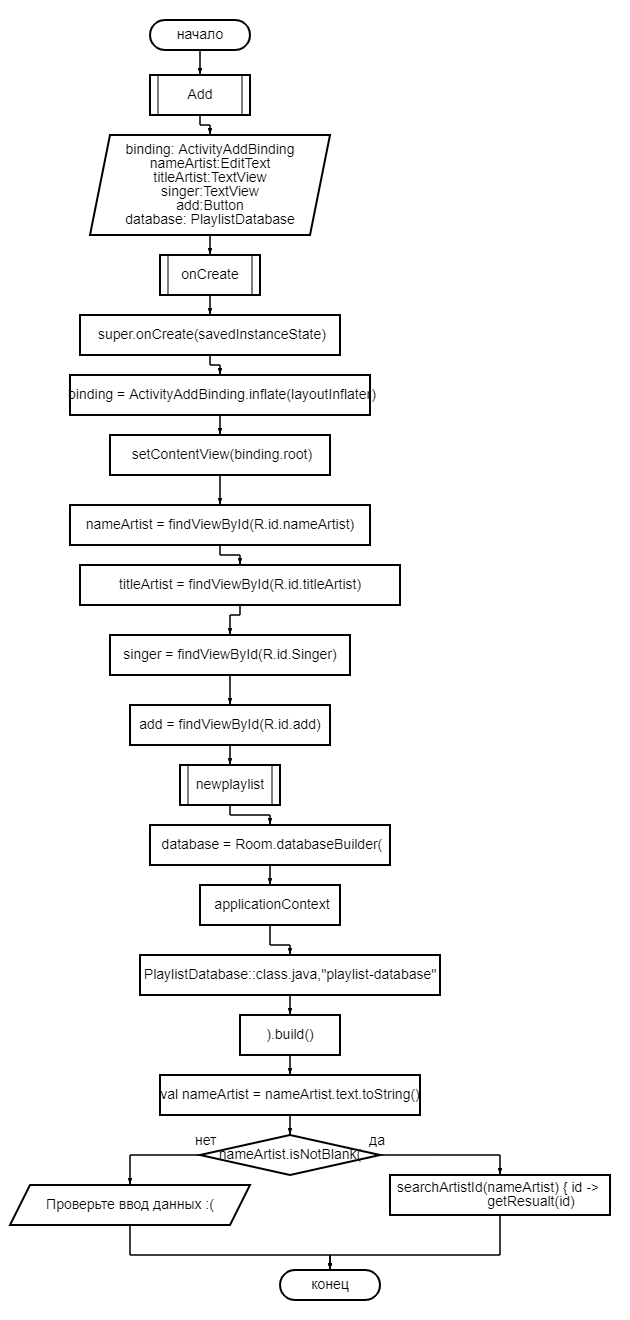
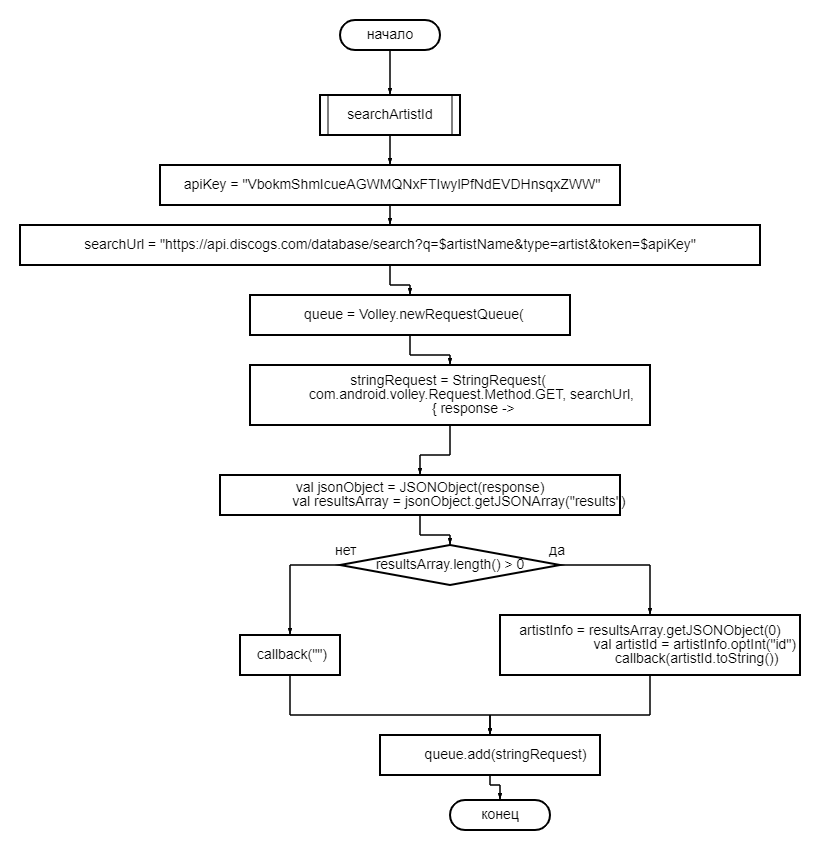
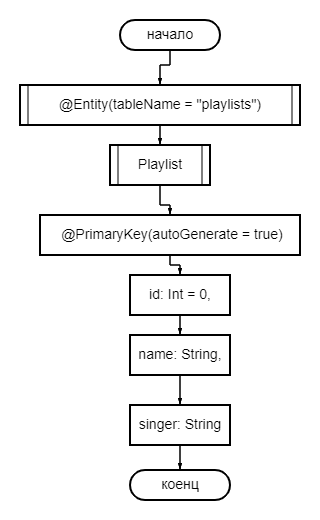
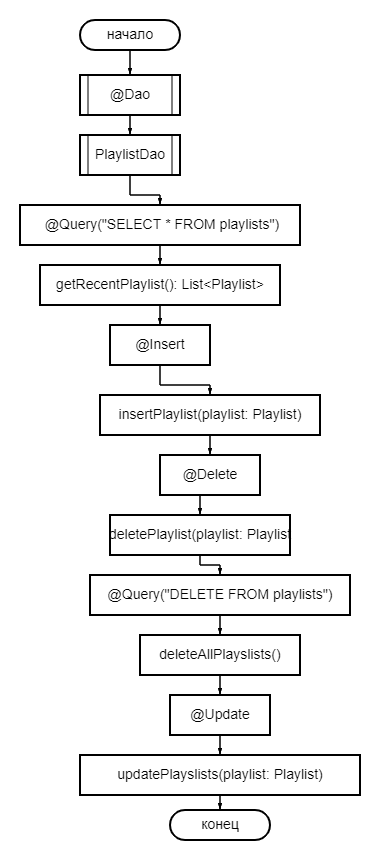
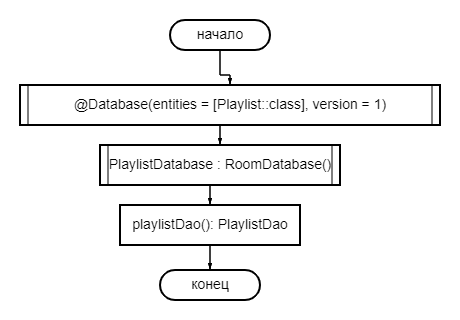
<?xml version="1.0" encoding="utf-8"?>  
<androidx.wear.widget.BoxInsetLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:padding="@dimen/box\_inset\_layout\_padding"  
 tools:context=".AddActivity"  
 tools:deviceIds="wear"  
 android:background="@drawable/background">  
  
 <FrameLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:padding="@dimen/inner\_frame\_layout\_padding"  
 app:layout\_boxedEdges="all">  
  
 <EditText  
 android:id="@+id/nameArtist"  
 android:layout\_width="402dp"  
 android:layout\_height="39dp"  
 android:layout\_marginBottom="4dp"  
 android:backgroundTint="@color/white"  
 android:hint="Введите название группы"  
 android:textSize="10dp"  
 android:textColor="@color/white"  
 android:textColorHint="@color/white"  
 app:layout\_constraintBottom\_toTopOf="@+id/searchButton"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="1.0"  
 app:layout\_constraintStart\_toStartOf="parent">  
  
 </EditText>  
 <Button  
 android:id="@+id/add"  
 android:layout\_width="104dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_gravity="center\_horizontal"  
  
 android:layout\_marginTop="30dp"  
 android:onClick="newplaylist"  
 android:text="@string/poisk"  
 android:textAllCaps="false"  
 android:textStyle="italic" />  
 <ScrollView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="90dp"  
 app:layout\_constraintBottom\_toTopOf="@+id/year"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.094"  
 app:layout\_constraintStart\_toStartOf="parent">  
  
 <LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="vertical">  
  
 <TextView  
 android:id="@+id/titleArtist"  
 android:layout\_width="120dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="5dp"  
 android:layout\_marginTop="5dp"  
 android:textSize="10dp"  
 android:textColor="@color/white"  
 app:layout\_constraintBottom\_toTopOf="@+id/year"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.094"  
 app:layout\_constraintStart\_toStartOf="parent"/>  
  
 <TextView  
 android:id="@+id/Singer"  
 android:layout\_width="120dp"  
 android:layout\_height="58dp"  
 android:textSize="8dp"  
 android:layout\_marginLeft="5dp"  
 android:layout\_marginTop="15dp"  
 android:textColor="@color/white"  
 app:layout\_constraintBottom\_toTopOf="@+id/year"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.094"  
 app:layout\_constraintStart\_toStartOf="parent">  
 </TextView>  
 </LinearLayout>  
 </ScrollView>  
 </FrameLayout>  
</androidx.wear.widget.BoxInsetLayout>

<?xml version="1.0" encoding="utf-8"?>  
<androidx.wear.widget.BoxInsetLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:padding="@dimen/box\_inset\_layout\_padding"  
 tools:context=".HistoryList"  
 tools:deviceIds="wear"  
 android:background="@drawable/background">  
  
 <FrameLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:padding="@dimen/inner\_frame\_layout\_padding"  
 app:layout\_boxedEdges="all">  
  
 <Button  
 android:id="@+id/dob"  
 android:layout\_width="65dp"  
 android:layout\_height="40dp"  
 android:onClick="dobavit"  
 android:text="+" />  
  
 <Button  
 android:id="@+id/udal"  
 android:layout\_width="65dp"  
 android:layout\_height="40dp"  
 android:layout\_marginLeft="90dp"  
 android:onClick="udalit"  
 android:text="-"/>  
  
 <androidx.recyclerview.widget.RecyclerView  
 android:id="@+id/list"  
 android:layout\_width="161dp"  
   
 android:layout\_height="match\_parent"  
 android:layout\_marginTop="40dp" />  
 </FrameLayout>  
</androidx.wear.widget.BoxInsetLayout>

<?xml version="1.0" encoding="utf-8"?>  
<androidx.wear.widget.BoxInsetLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:padding="@dimen/box\_inset\_layout\_padding"  
 tools:context=".MainActivity"  
 tools:deviceIds="wear"  
 android:background="@drawable/background">  
  
 <ScrollView  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 app:layout\_boxedEdges="all">  
  
 <FrameLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:padding="@dimen/inner\_frame\_layout\_padding"  
 app:layout\_boxedEdges="all">  
  
 <TextView  
 android:id="@+id/text"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/title"  
 android:textSize="17dp"  
 android:layout\_gravity="center\_horizontal"  
 android:layout\_marginTop="10dp"  
 android:textStyle="bold" />  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="70dp"  
 android:layout\_marginLeft="16dp"  
 android:textSize="12dp"/>  
  
 <EditText  
 android:id="@+id/login"  
 android:layout\_width="130dp"  
 android:layout\_height="wrap\_content"  
 android:hint="Логин"  
 android:textSize="12dp"  
 android:layout\_marginTop="80dp"  
 android:layout\_marginLeft="12dp" />  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="120dp"  
 android:layout\_marginLeft="16dp"  
 android:textSize="12dp"/>  
  
 <EditText  
 android:id="@+id/password"  
 android:layout\_width="130dp"  
 android:layout\_height="wrap\_content"  
 android:hint="Пароль"  
 android:textSize="12dp"  
 android:layout\_marginTop="130dp"  
 android:layout\_marginLeft="12dp"  
 android:inputType="textPassword" />  
  
 <Button  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="180dp"  
 android:textAllCaps="false"  
 android:textSize="12dp"  
 android:text="@string/toscreen"  
 android:onClick="toScreen"  
 android:background="@color/gray"/>  
  
 </FrameLayout>  
 </ScrollView>  
</androidx.wear.widget.BoxInsetLayout>

<?xml version="1.0" encoding="utf-8"?>  
<androidx.wear.widget.BoxInsetLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:padding="@dimen/box\_inset\_layout\_padding"  
 tools:context=".MainScreen"  
 tools:deviceIds="wear"  
 android:background="@drawable/background">  
  
 <FrameLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:padding="@dimen/inner\_frame\_layout\_padding"  
 app:layout\_boxedEdges="all">  
  
 <ImageButton  
 android:layout\_width="50dp"  
 android:layout\_height="50dp"  
 android:background="@drawable/add"  
 android:layout\_marginLeft="20dp"  
 android:layout\_marginTop="10dp"  
 android:onClick="add"/>  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/add"  
 android:textColor="@color/white"  
  
 android:textSize="11dp"  
 android:layout\_marginTop="65dp"  
 android:layout\_marginLeft="25dp"  
 />  
 <ImageButton  
 android:layout\_width="50dp"  
 android:layout\_height="50dp"  
 android:background="@drawable/history"  
 android:layout\_marginLeft="100dp"  
 android:layout\_marginTop="10dp"  
 android:onClick="history"/>  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/historylist"  
 android:textColor="@color/white"  
 android:textSize="11dp"  
 android:layout\_marginTop="65dp"  
 android:layout\_marginLeft="104dp"/>  
  
  
 </FrameLayout>  
</androidx.wear.widget.BoxInsetLayout>

<?xml version="1.0" encoding="utf-8"?>  
<androidx.wear.widget.BoxInsetLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="100dp"  
 xmlns:tools="http://schemas.android.com/tools"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 tools:deviceIds="wear"  
 android:padding="@dimen/box\_inset\_layout\_padding">  
  
 <ScrollView  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent">  
  
 <FrameLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:padding="@dimen/inner\_frame\_layout\_padding"  
 app:layout\_boxedEdges="all">  
  
 <TextView  
 android:id="@+id/title"  
 android:layout\_width="100dp"  
 android:layout\_height="wrap\_content"  
 android:textSize="10dp"  
 android:textColor="@color/white"  
 app:layout\_constraintBottom\_toTopOf="@+id/year"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.094"  
 app:layout\_constraintStart\_toStartOf="parent">  
 </TextView>  
  
 <TextView  
 android:id="@+id/Singer"  
 android:layout\_width="100dp"  
 android:layout\_height="wrap\_content"  
 android:textSize="6dp"  
 android:layout\_marginTop="30dp"  
 android:textColor="@color/white"  
 app:layout\_constraintBottom\_toTopOf="@+id/year"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.094"  
 app:layout\_constraintStart\_toStartOf="parent">  
 </TextView>  
  
 <Button  
 android:id="@+id/delete"  
 android:layout\_width="33dp"  
 android:layout\_height="33dp"  
 android:layout\_marginLeft="105dp"  
 android:layout\_marginTop="-5dp"  
 android:text="D"  
 android:textSize="11dp" />  
  
 <Button  
 android:id="@+id/edit"  
 android:layout\_width="33dp"  
 android:layout\_height="33dp"  
 android:layout\_marginLeft="105dp"  
 android:layout\_marginTop="20dp"  
 android:textSize="11dp"  
 android:text="E" />  
 </FrameLayout>  
 </ScrollView>  
</androidx.wear.widget.BoxInsetLayout>

Блок-схема:  
  




**Экраны:**

